Appendix B:
Air Quality, Greenhouse Gas, and Energy Supporting Information

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Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report
Shirk and Riggin Industrial Park Project
City of Visalia, California

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Revised: February 23, 2024

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ACRONYMS AND ABBREVIATIONS

°F	degrees Fahrenheit
µg/m^3	micrograms per cubic meter
AADT	Average Annual Daily Trips
AAQA	Ambient Air Quality Analysis
AB	Assembly Bill
AERMOD	American Meteorological Society Regulatory Model
APN	Assessor's Parcel Number
AQGGP	Air Quality Guidelines for General Plans
AQI	Air Quality Index
AQP	Air Quality Plan
ARB	California Air Resources Board
ASF	age sensitivity factors
ATCM	Airborne Toxic Control Measure
BAU	Business as Usual
BMP	Best Management Practice
BPS	Best Performance Standard
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards Code
CalRecycle	California Department of Resources Recycling and Recovery
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CCAA	California Clean Air Act
CCAP	Climate Change Action Plan
CCS	Carbon Capture and Storage
CDC	Center for Disease Control and Prevention
CDF	California Department of Finance
CDR	Carbon Dioxide Removal
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFL	Compact Fluorescent Light
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent

COG	Council of Governments
CPF	cancer potency factor
CPUC	California Public Utility Commission
CTG	Control Techniques Guidelines
CUP	Conditional Use Permit
DBR	daily breathing rates
DPM	diesel particulate matter
EIR	Environmental Impact Report
EMFAC	Emission Factors Model
EPA	United States Environmental Protection Agency
EV	electric vehicle
EVR	Enhanced Vapor Recovery
FAR	floor area ratio
GAMAQI	Guidance for Assessing and Mitigating Air Quality Impacts
GHG Plan	Greenhouse Gas Reduction Plan
GHG Rx	Greenhouse Gas Reduction Exchange
GHG	greenhouse gas
GWP	global warming potential
HAP	Hazardous Air Pollutant
HHDT	Heavy Heavy-Duty Truck
HRA	Health Risk Assessment
HVAC	heating, ventilation, and air conditioning
IL	Light Industrial
IPCC	United Nations Intergovernmental Panel on Climate Change
ITE	Institute of Transportation Engineers
LCFS	Low Carbon Fuel Standard
LDA	Light-Duty Auto
LDT	Light-Duty Truck
LEED®	Leadership in Energy Efficient Design
LEV	Low Emission Vehicle
LST	localized significance threshold
MDV	Medium-Duty Vehicle
MIR	Maximally Impacted Sensitive Receptor
MM	Mitigation Measure
MMT	million metric ton
MOU	Memorandum of Understanding
MPO	Metropolitan Planning Organization
MT	metric ton

MWELO	Model Water Efficient Landscape Ordinance
NAAQS	National Ambient Air Quality Standards
NOP	Notice of Preparation
NO_X	nitrogen oxides
OEHHA	California Office of Environmental Health Hazard Assessment
ORVR	Onboard Refueling Vapor Recovery
OSHA	Occupational Safety and Health Administration
PACE	Property Assessed Clean Energy
PCE	Passenger Car Equivalent
PEV	plug-in electric vehicle
PFC	perfluorocarbon
PG&E	Pacific Gas and Electric Company
PM	particulate matter
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
ppb	parts per billion
ppm	parts per million
RACT	Reasonably Available Control Technology
REL	Reference Exposure Level
RNG	renewable natural gas
ROG	reactive organic gases
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
RTP/SCS	Regional Transportation Plan and Sustainable Communities Strategy
RTPA	Regional Transportation Planning Agency
RV	recreational vehicle
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCS	Sustainable Communities Strategy
SEI	Strategic Energy Innovations
SIP	State Implementation Plan
SLCP	Short-Lived Climate Pollutant
SMAQMD	Sacramento Metropolitan Air Quality Management District
SNAP	California Significant New Alternatives Policy
SoCAB	South Coast Air Basin
SoCalGas	Southern California Gas Company
SOI	Sphere of Influence

SO_x	sulfur oxides
TAC	toxic air contaminant
TCAG	Tulare County Association of Governments
TDM	Transportation Demand Management
TRU	Transport Refrigeration Unit
UDB	Urban Development Boundary
USGS	United States Geological Survey
Valley Air District	San Joaquin Valley Air Pollution Control District
VERA	Voluntary Emission Reduction Agreement
VMT	Vehicle Miles Traveled
VOC	volatile organic compounds
VUSD	Visalia Unified School District
ZEV	Zero-Emission Vehicle

SECTION 1: EXECUTIVE SUMMARY

1.1 - Purpose and Methods of Analysis

This Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report was prepared to evaluate whether the estimated criteria air pollutant, ozone precursor, toxic air contaminant (TAC), GHG emissions, and/or overall energy usage generated from construction and/or operation of the proposed Shirk and Riggin Industrial Park Project (proposed project) would cause significant impacts pursuant to the applicable thresholds. The respective analyses were conducted pursuant to the requirements of the California Environmental Quality Act (CEQA) (California Public Resources Code [PRC] § 21000, *et seq*. and the CEQA Guidelines § 15000, *et seq*., collectively). As described more fully below, the City has elected, in its discretion, to utilize the methodologies and thresholds set forth in the Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI) prepared and adopted by the San Joaquin Valley Air Pollution Control District (Valley Air District) for the quantification of emissions and evaluation of potential impacts to air resources[1] and the Valley Air District Guidance for Valley Land Use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA.[2]

1.2 - Project Summary

1.2.1 - Site Location

The proposed project would be located on approximately 284 acres of land (project site) that is within the jurisdictional boundaries of unincorporated Tulare County, adjacent to the northern boundary of the City of Visalia (City), California. The project site is generally bound by Riggin Avenue to the south, Shirk Street to the east, Kelsey Street to the west, and Modoc Ditch to the north. The project site consists of three existing parcels: Assessor's Parcel Numbers (APNs) 077-840-001, 077-840-002, and 077-840-003. The project site is within the City's Planning Area,[3] Urban Development Boundary (UDB) Tier 1 of the City, and the City's Sphere of Influence (SOI). The project site has historically been (since 1937) and continues to be used for agricultural purposes.[4] The project site has been designated by the City's General Plan for Industrial and Light Industrial uses. See Figure 1–Regional Location Map and Figure 2–Project Vicinity Map. The project vicinity is characterized by cultivated agricultural uses (row crops and orchards) as well as agricultural processing facilities to the north and east, light industrial warehouse uses to the west and south, and single-family residential uses to the southeast.

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1 San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed August 9, 2022.

2 San Joaquin Valley Air Pollution Control District (Valley Air District). 2009. Guidance for Valley Land Use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA. December 17. Website: https://www.valleyair.org/Programs/CCAP/12-17-09/3%20CCAP%20-%20FINAL%20LU%20Guidance%20-%20Dec%2017%202009.pdf. Accessed August 9, 2022.

3 "Planning area" refers to the land area addressed by a General Plan, including land within the City limits and land outside the City limits that bears a relation to the City's planning. For purposes of the City's Planning Area, not all portions are intended for urban development; rather, the City's Urban Development Boundary shows the future urban development area pursuant to the City's land use vision reflected in its General Plan.

4 The project site currently consists of an actively managed almond orchard, established around 2018.

1.2.2 - Project Description

The proposed project would discontinue the existing agricultural uses, demolish remaining on-site structures that serve the current agricultural uses, and develop a mixed-use industrial park totaling approximately 3,720,149 square feet of light industrial and flex industrial uses along with car/trailer parking areas and related on- and off-site improvements. The proposed project would consist of eight industrial buildings used for warehouse, distribution, and light manufacturing; six flex industrial buildings offering small incubator space for small manufacturing, storage, and limited warehouse space; two drive-through fast food/quick serve restaurants; a convenience store; a recreational vehicle (RV) and self storage facility; gas station; and a car wash. The project site would include sufficient amounts of trailer stalls and car parking stalls to serve the proposed uses in accordance with applicable City requirements. The proposed project would also involve necessary on- and off-site infrastructure and improvements sufficient to serve the proposed uses. These would include detention basins on the east, west, and central portions of the project site and other necessary stormwater facilities to be sized and installed in accordance with all applicable requirements and standards. Access would be provided via three access points along Shirk Street, three access points along Riggin Avenue, and five access points along Kelsey Street. Clancy Street south of the project site would be extended to replace the existing private road and would traverse south to north of the site. An internal network of drive aisles would connect the overall project.

The proposed project would be annexed into the city limits and, upon annexation, would be served by the City for purposes of water, wastewater, and stormwater as well as other non-utility public services. The other City entitlements associated with the proposed project include a Development Agreement, pre-zoning, approval of a resolution initiating annexation proceedings, a Tentative Parcel Map, a Conditional Use Permit (CUP) (to allow for some of the uses proposed (convenience store, drive-through lanes), some of the proposed lot sizes in the light industrial zoning, and lots without public street frontage), and Site Plan approval.

Off-site Improvements

In addition to the on-site construction of the proposed project, off-site improvements would involve the construction of approximately 13.77 acres of new roads and related roadway improvements and utility infrastructure. The off-site improvements would require paving and architectural coating activity during construction.

Landscaping

On-site orchards and ornamental trees would need to be removed, and appropriate landscaping and lighting would be incorporated into the overall site design consistent with applicable City requirements and guidelines. The proposed project would include approximately 1,336,630 square feet of landscaping in accordance with applicable City requirements, which would consist primarily of drought tolerant and low maintenance plants. Islands with canopy trees would be provided to reduce heat island effect.

Storm Drainage

The proposed project would install an on-site storm drainage system consisting of inlets, underground piping, and basins, which would be constructed in accordance with all applicable standards and requirements. In total, the proposed project would provide approximately 31.3 acres of stormwater detention basin area.

Utilities

As noted above, the proposed project would require connection to various City-operated utility and infrastructure systems. These include City-provided services such as water, wastewater, and stormwater facilities. Non City-provided infrastructure would include natural gas (to be provided by Southern California Gas Company [SoCalGas]) and electrical services (to be provided by Southern California Edison [SCE]).

Construction

The anticipated construction schedule for the proposed project is assumed to begin in March 2024 and end in March 2028. For purposes of a conservative analysis, this evaluation considers both sequential and concurrent construction. Even if this date of anticipated construction passes prior to actual construction, the construction schedule used in the analysis represents a "worst-case" analysis scenario since emission factors for construction equipment decrease as the analysis year increases due to improvements in technology and compliance with more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moved to later years. Thus, this conservative analysis evaluates the worst-case scenario. For sequential phasing, it is assumed that construction of the proposed project would be conducted in three phases, with each phase lasting approximately 12 months in duration. Phases are defined as follows for purposes of this analysis:

- "Phase 1" of project construction is defined herein to consist of approximately 1,864,700 square feet of light industrial space. Construction of Phase 1 is assumed to begin in March 2024 and end in March 2025.
- "Phase 2" of project construction is defined herein to consist of approximately 830,700 square feet of light industrial space as well as the car wash, the convenience store with gasoline pumps, and both drive-through, quick serve/fast food restaurants. Construction of Phase 2 is assumed to begin in September 2025 and end in September 2026.
- "Phase 3" of project construction is defined herein to consist of the remaining approximately 779,270 square feet of light industrial space as well as approximately 84,480 square feet of flex industrial space and the self storage facility. Construction of Phase 3 is assumed to begin in March 2027 and end in March 2028.
- Off-site improvements is assumed to begin in March 2024 and end in May 2024.

The necessary landscaped areas, parking areas, and the water quality management basins would be included in each of the three phases, in amounts sufficient to serve each relevant phase.

The following construction phasing information was provided by the project proponent and utilized in this analysis:

a. Phase 1: 3/14/2024 to 3/14/2025
b. Phase 2: 9/12/2025 to 9/12/2026
c. Phase 3: 3/13/2027 to 3/12/2028

While the above-described preliminary construction schedule for the proposed project assumes that Phases 1 through 3 would be built sequentially (i.e., none of the three phases would overlap), the potential remains for project phases to be constructed concurrently. Therefore, for the purpose of analyzing the reasonable worst-case scenario and fully disclosing all potential impacts, this analysis also evaluates impacts that could occur if there were concurrent (rather than sequential) phasing for the proposed project. Accordingly, impact discussions and mitigation measures related to each construction phase would be applicable to an individual specific development proposal taking place within the development area covered by the relevant phase.

Also, for purposes of a conservative analysis, it is assumed that approximately 130,000 cubic yards of material to be cut, approximately 260,000 cubic yards of fill material, and a net import of approximately 130,000 cubic yards of new material.

1.3 - Summary of Analysis Results

The following is a summary of the analysis results.

Impact AIR-1 The proposed project would conflict with or obstruct implementation of the applicable air quality plan.

Significant and unavoidable impact.

Impact AIR-2 The proposed project would result in a cumulatively considerable net increase of criteria pollutant(s) (i.e., ROG, NO_X, and PM_{10}) for which the project region is nonattainment under an applicable federal or State ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors).

Significant and unavoidable impact.

Impact AIR-3 The proposed project would expose sensitive receptors to substantial pollutant concentrations.

Less than significant impact.

Impact AIR-4 The proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Less than significant impact.

Impact GHG-1 The proposed project would generate direct and indirect greenhouse gas emissions; however, these emissions would not result in a significant impact on the environment.

Less than significant impact.

Impact GHG-2 The proposed project would conflict with an applicable plan, policy or regulation of an agency adopted to reduce the emissions of GHG.

Less than significant impact with mitigation incorporated.

Impact ENER-1 The proposed project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during construction or operation.

Less than significant impact.

Impact ENER-2 The proposed project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency**.**

Less than significant impact.

1.4 - Mitigation Measures Applied to the Proposed Project

Project-specific Mitigation Measures

Air Quality

MM AIR-2a **Use of Tier IV or Tier IV Equivalent Construction Off-Road Equipment**

Prior to the issuance of the construction grading permit in connection with an individual specific development proposal for the proposed project, the relevant project sponsor shall submit construction emissions minimization plans to the City of Visalia Planning Division for review and approval to confirm said plans fulfill the requirements of this mitigation measure. The subject construction emissions minimization plans shall reasonably document compliance with the following requirements:

(1) Subject to same being commercially available, all off-road equipment utilized in connection with the subject individual development proposal shall have engines that meet either United States Environmental Protection Agency (EPA) or California Air Resources Board (ARB) Tier IV Final off-road emission standards. Provided, however, if engines that comply with Tier IV Final off-road emission standards are not commercially available, then the construction contractor shall use the next cleanest piece of off-road equipment (e.g., Tier IV Interim) available. For purposes of this mitigation measure, “commercially available” shall mean the equipment is available taking into consideration

factors such as (i) critical-path timing of construction; (ii) costs of utilizing same are commercially practicable; and (iii) geographic proximity to the project site of equipment. The relevant contractor's provision to the City of letters from at least two rental companies for each piece of off-road equipment that reasonably documents the lack of commercially available off-road equipment shall be deemed sufficient for purposes of complying with this mitigation measure. The project applicant and contractor shall consider the use of near zero-emission or electric construction equipment if that type of equipment is commercially available at the time of grading permit submittal.

(2) Post signage on the project site stating that construction equipment idling times shall not exceed five minutes.

MM AIR-2b Super-Compliant Architectural Coating During Construction

Prior to issuance of a grading permit in connection with an individual specific development proposal for the proposed project, the relevant project sponsor shall submit to the City of Visalia Planning Division construction contracts and/or subcontracts reasonably documenting that all architectural coating material utilized in connection with the subject individual specific development proposal would not exceed 10 grams of volatile organic compound (VOC) per liter of coating.

To satisfy the above, the relevant project sponsor shall include in any construction contracts and/or subcontracts for the subject individual specific development proposal a requirement that all interior and exterior architectural coatings used in project construction meet the "super-compliant" coating VOC content standard of 10 grams or less of VOC per liter of coating. The relevant project sponsor shall also specify in the subject construction contracts and/or subcontracts the requirement to use high-volume, low-pressure spray guns during coating applications to reduce coating waste.

MM AIR-2c Electric or Zero-Emission On-site Off-Road and On-Road Service Equipment

Prior to issuance of the construction grading permit in connection with an individual specific development proposal for the proposed project, the relevant project sponsor shall provide reasonable documentation to demonstrate to the City of Visalia Planning Division that all on-site off-road and on-road service equipment will utilize zero-emission technology, subject to the same being commercially practicable. Additionally, the relevant project sponsor shall provide reasonable documentation to the City of Visalia Planning Division that all proposed buildings in connection with the subject individual specific development proposal that would use on-site service equipment will be designed to include electric outlets to equipment support the use of all-electric or zero-emission on-site service equipment, subject to the same being commercially practicable.

MM AIR-2d Electric Vehicle Charging Infrastructure

Prior to issuance of the grading or building permit in connection with an individual specific development proposal for the proposed project, whichever occurs first, the relevant project sponsor shall provide reasonable documentation to the City of Visalia Planning Division demonstrating that the subject individual specific development proposal shall incorporate infrastructure for electric vehicle charging stations into a minimum of 20 percent of all vehicle parking spaces (including parking for trucks), consistent with the applicable California Green Building Standards Code (CALGreen) Tier 1 Nonresidential Mandatory Measure (Section A5.106.5.3). To satisfy the foregoing, electric vehicle charging spaces must provide electrical vehicle charging infrastructure to support future installation of electric vehicle supply equipment and shall meet the applicable design space requirements of CALGreen Section 5.106.5.3.

Furthermore, the buildings' electrical room shall be sufficiently sized to hold additional panels that may be needed to supply power for the future installation of electric vehicle (EV) truck charging stations on the site. Conduit should be installed from the electrical room to tractor trailer parking spaces in a logical location(s) on the site determined by the project applicant during construction document plan check, for the purpose of accommodating the future installation of EV truck charging stations at such time this technology becomes commercially available and the buildings are being served by trucks with electric-powered engines.

MM AIR-2e On-Site Signage and Pavement Markings

Prior to issuance of the grading or building permit in connection with an individual specific development proposal for the proposed project, whichever occurs first, the relevant project sponsor shall provide reasonable documentation to the City of Visalia Planning Division demonstrating signage and pavement marking that show on-site circulation routes have been or will be included along the relevant portions of the project site driveways and internal roadways.

MM AIR-2f Vegetative Barrier

Prior to issuance of the grading or building permit in connection with an individual specific development proposal for the proposed project, whichever occurs first, the relevant project sponsor shall provide reasonable documentation to the City of Visalia Planning Division demonstrating the inclusion of a vegetative barrier along the south and east property boundaries of the project site. Prior to issuance of the first occupancy permit, the project applicant shall demonstrate to the Visalia Planning Division the installation of the vegetative barrier at the described locations.

MM AIR-2g Voluntary Emission Reduction Agreement

Prior to issuance of the grading or building permit in connection with an individual specific development proposal for the proposed project, whichever occurs first, the relevant project sponsor shall consult with the City of Visalia Planning Division about the feasibility of entering into a Voluntary Emissions Reduction Agreement (VERA) with the San Joaquin Valley Air Pollution Control District (Valley Air District).

Greenhouse Gas Emissions

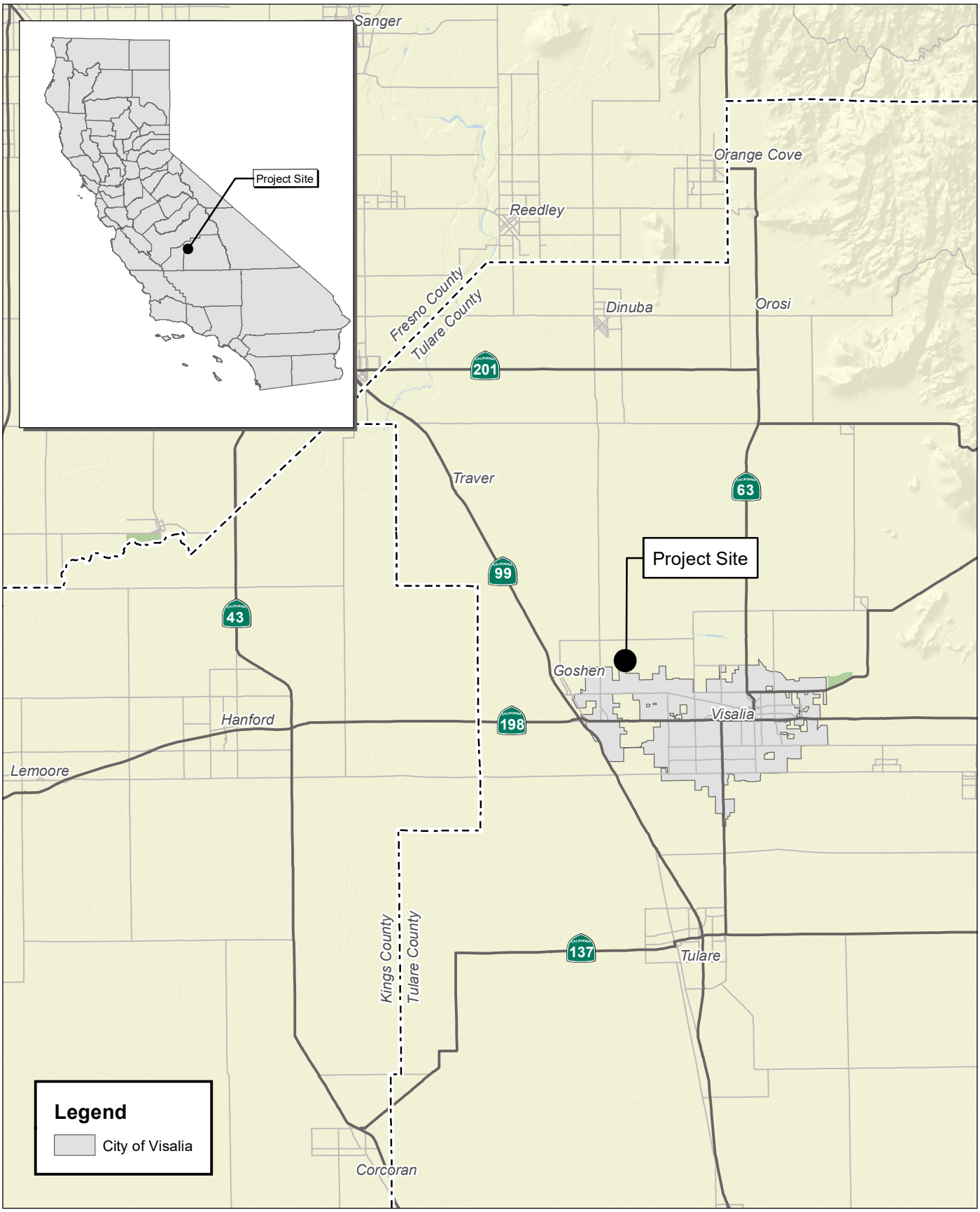
MM GHG-2a Rooftop Solar

Prior to issuance of building permit for each individual specific development proposal for the proposed project, the relevant project sponsor shall provide the City of Visalia Planning Division reasonable documentation demonstrating that the subject individual specific development proposal has been designed with one of the following: (1) rooftop photovoltaic solar panels, (2) solar-ready rooftop design that shall support the installation of rooftop photovoltaic panel to the extent feasible, or (3) roofing material containing light coloring with a solar reflective index greater than 78.

MM GHG-2b Warehouse usage shall be limited to dry storage. If the warehouse is used for cold storage, then prior to the issuance of occupancy permits, the City of Visalia shall confirm that tenant lease agreements include contractual language that requires all Transport Refrigeration Units (TRUs) entering the project site be plug-in capable. Electrical hookups shall be provided as part of the tenant improvements for any tenant that requires cold storage. The electrical hookups shall be provided at loading bays for truckers to plug in any onboard auxiliary equipment and power refrigeration units while their truck is stopped.

Energy

No mitigation measures are required.



Source: Census 2000 Data, The California Spatial Information Library (CaSIL).

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5 2.5 0 5 Miles

Exhibit 1
Regional Location Map

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SEEFRIED INDUSTRIAL PROPERTIES, INC.
SHIRK & RIGGIN INDUSTRIAL PARK PROJECT
AIR QUALITY, GREENHOUSE GAS EMISSIONS, AND ENERGY ANALYSIS REPORT

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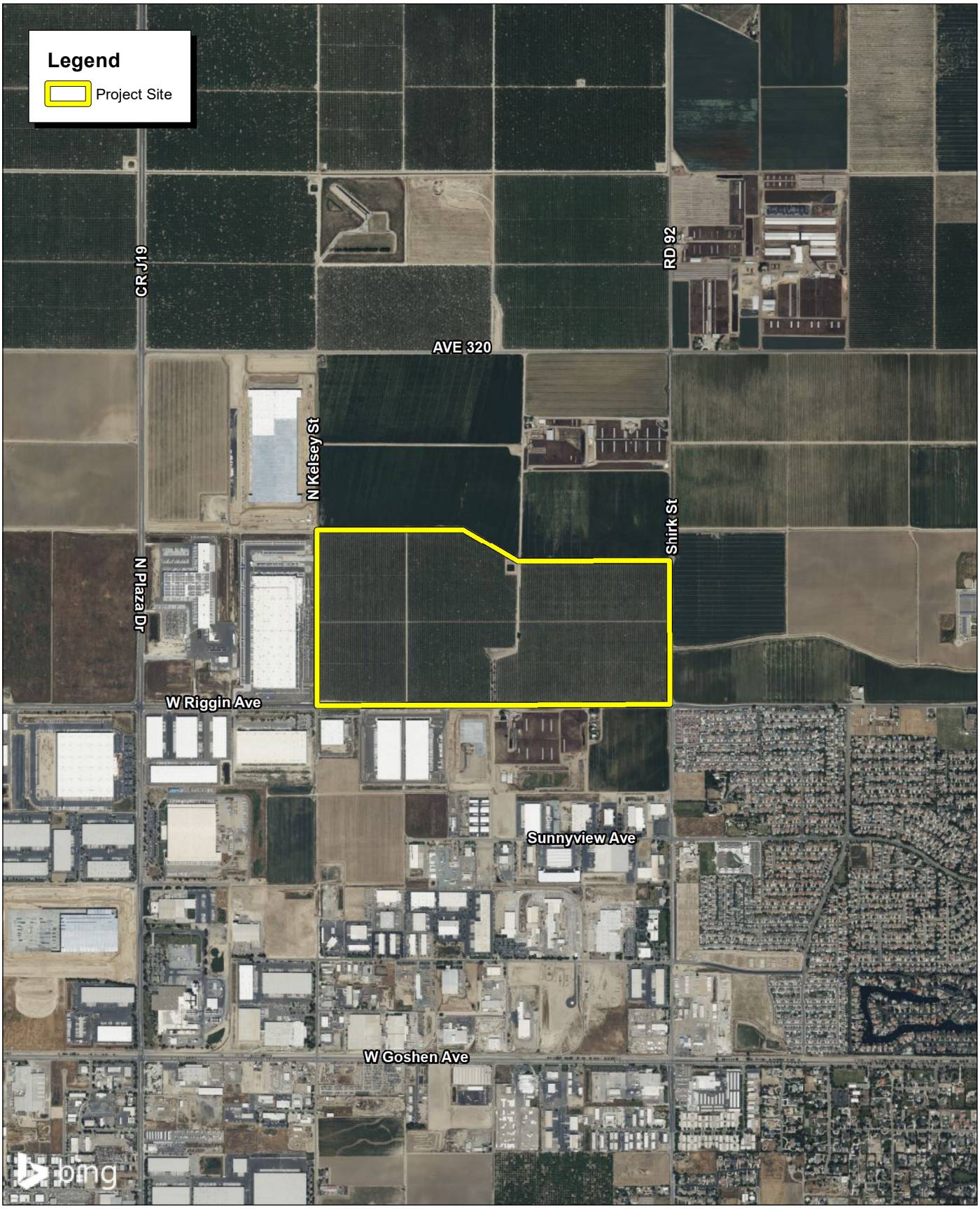

Source: Bing Aerial Imagery.

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2,000 1,000 0 2,000 Feet

Exhibit 2
Local Vicinity Map

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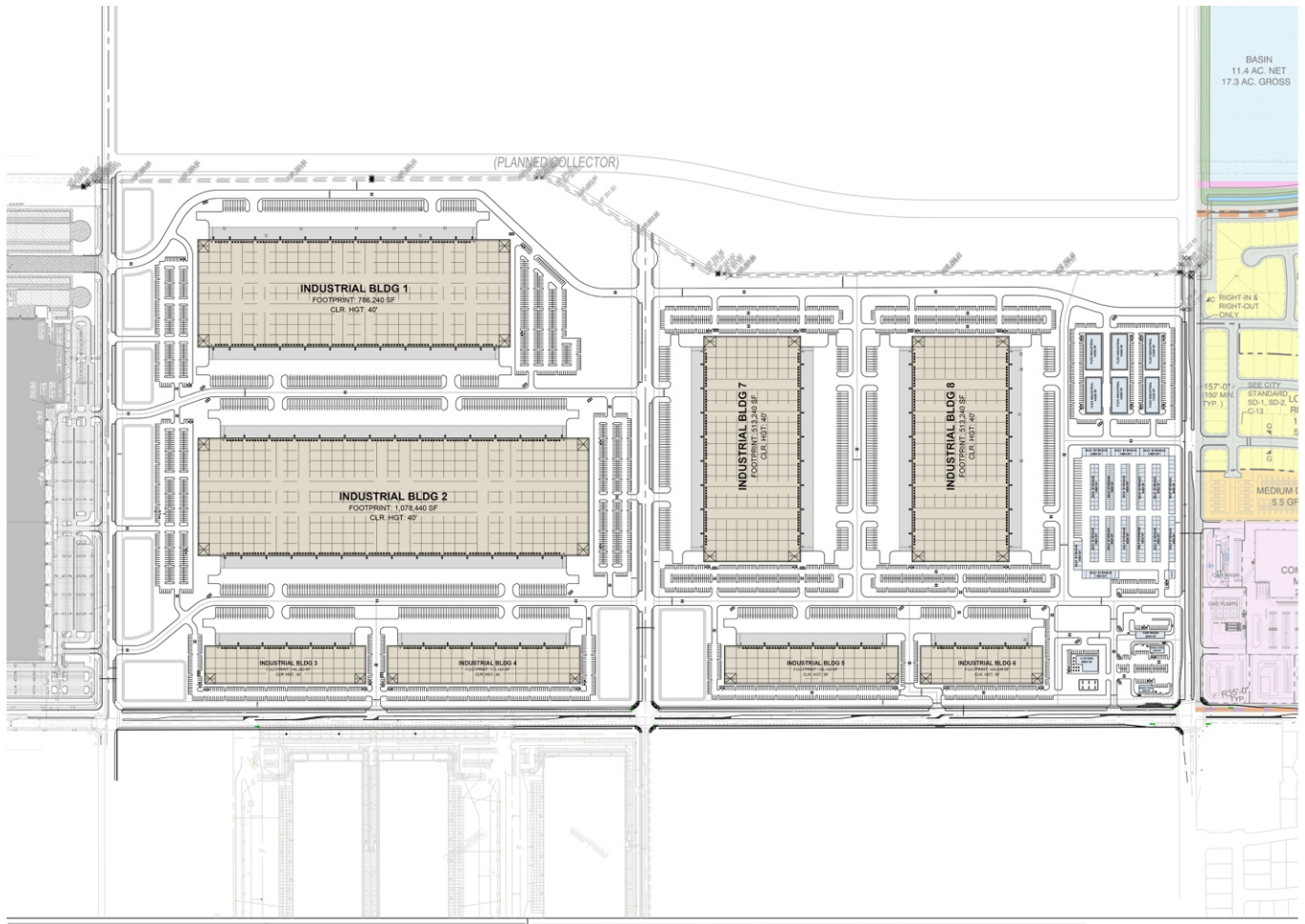
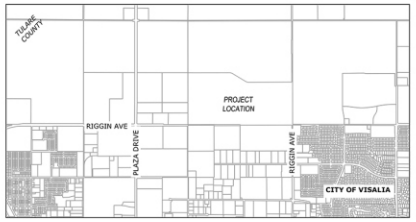
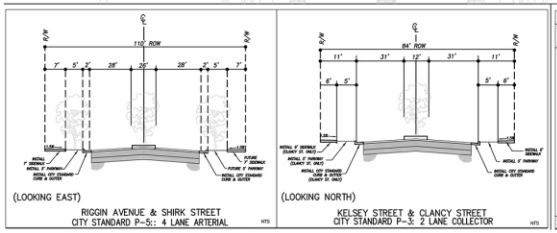


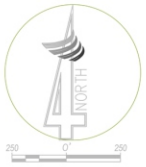
SITE DATA:

APN:	077-840-001, 077-840-002, 003
ACRES:	+/- 280 ACRES
ZONING (PROPOSED):	LIGHT INDUSTRIAL, INDUSTRIAL
GENERAL PLAN (EXISTING):	LIGHT INDUSTRIAL, INDUSTRIAL
GENERAL PLAN (PROPOSED):	LIGHT INDUSTRIAL, INDUSTRIAL
UTILITIES	
SEWER SERVICE:	CITY OF VISALIA
WATER SERVICE:	CITY OF VISALIA
STORMWATER:	ON-SITE BIOSWALES/BASINS
GAS SERVICE:	SOUTHERN CALIFORNIA GAS COMPANY
ELEC. SERVICE:	SOUTHERN CALIFORNIA EDISON
REFUSE SERVICE:	CITY OF VISALIA
TELEPHONE:	SBC
FLOOD ZONE:	X





Ritchie Industrial Site		Parcel No.	Site Area (Acres)	Bld No.	Building Footprint (SF)	Gross Coverage	Net Coverage	Trailer Parking	Passenger Vehicle Parking Proposed		
Gross Area (Acres)	Net Area (Acres)								Standard	Accessible	Total
280.0	270.3	1	60.4	1	786,240	30%	30%	188	615	8	623
		2	59.14	2	1,078,440		42%	246	691	8	699
		3	13.14	3	144,300		25%	47	233	8	241
		4	14.65	4	173,160		27%	60	269	8	277
		5	14.46	5	156,140		25%	57	237	4	241
		6	36.55	7	513,240		32%	130	608	8	616
		7	36.81	8	513,240		32%	130	624	8	632
		8	8.06	6	109,890		31%	37	149	4	153
		9	10.39	Flex Ind.	80,960		18%	0	282	16	298
		10	10.03	Self Storage	133,800		31%	32	42	2	44
		11	3.11	C-Store	6900		5%	0	21	2	23
		12	1.38	Car Wash	4500		7%	0	14	2	16
		13	2.21	Drive Thru (2)	4800		5%	0	66	4	70
280.0	270.3	Total	270.3		3,705,610	30%	31%	927	3851	82	3933



Source: Seefried Industrial Properties; 4Creeks, 12/2022.

FIRSTCARBON SOLUTIONS™

Exhibit 3
Site Plan

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SECTION 2: AIR QUALITY SETTING

2.1 - Environmental Setting

The project site is located in the San Joaquin Valley Air Basin (Air Basin). Regional and local air quality are impacted by topography, dominant airflows, atmospheric inversions, location, and season. The following section describes these existing conditions as they pertain to the Air Basin. The information in this section was derived, in part, from the Valley Air District GAMAQI and the accompanying Technical Document.[5]

2.1.1 - San Joaquin Valley Air Basin

Topography

The topography of a region is important for air quality because mountains can block airflow that would help disperse pollutants and can channel air from upwind areas that transports pollutants to downwind areas. The Air Basin is generally shaped like a bowl. It is open in the north and is surrounded by mountain ranges on all other sides. The Sierra Nevada mountains are along the eastern boundary (8,000 to 14,000 feet in elevation), the Coast Ranges are along the western boundary (3,000 feet in elevation), and the Tehachapi Mountains are along the southern boundary (6,000 to 8,000 feet in elevation).

Climate

Climate is important for air quality because of differences in the atmosphere's ability to trap pollutants close to the ground, creating adverse air quality, or to rapidly disperse pollutants over a wide area, preventing high concentrations from accumulating under different climatic conditions. The Air Basin has an "inland Mediterranean" climate and is characterized by long, hot, dry summers and short, foggy winters. Sunlight can be a catalyst in the formation of some air pollutants (such as ozone); the Air Basin averages over 260 sunny days per year.

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the Air Basin form natural horizontal barriers to the dispersion of air contaminants. The wind generally flows south-southeast through the San Joaquin Valley and Tulare County, through the Tehachapi Pass and into the Southeast Desert Air Basin portion of Kern County. As the wind moves through the Air Basin, it mixes with the air pollution generated locally, generally transporting air pollutants from the north to the south in the summer and in a reverse flow in the winter.

2.2 - Regulatory Setting

Air pollutants are regulated to protect human health and for secondary effects such as visibility and building soiling. The Clean Air Act of 1970 tasks the United States Environmental Protection Agency (EPA) with setting air quality standards. The State of California also sets air quality standards that are,

[5] San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19, 2015. Website: http://www.valleyair.org/transportation/ceqa_guidance_documents.htm. Accessed August 9, 2022.

in some cases, more stringent than federal standards and address additional pollutants. The following section describes these federal and State standards and the health effects of the regulated pollutants, as well as identifies regional and local laws, regulations, and policies that are relevant to this analysis.

2.2.1 - Clean Air Act

Congress established much of the basic structure of the Clean Air Act in 1970 and made major revisions in 1977 and 1990. Six common air pollutants (also known as criteria pollutants and listed below) are addressed in the Clean Air Act. The EPA calls these pollutants criteria air pollutants because it regulates them by developing human health-based and environmentally based criteria (science-based guidelines) for setting permissible levels. The set of limits based on human health are called primary standards. Primary federal standards are the levels of air quality necessary, with an adequate margin of safety, to protect the public health. Another set of limits intended to prevent environmental and property damage are called secondary standards.[6] The federal standards are called National Ambient Air Quality Standards (NAAQS). The air quality standards provide benchmarks for determining whether air quality is healthy at specific locations and whether development activities will cause or contribute to a violation of the standards. The criteria pollutants are:

- Ozone
- Nitrogen dioxide (NO_2)
- Lead
- Particulate matter (PM_{10} and $PM_{2.5}$)
- Carbon monoxide (CO)
- Sulfur dioxide (SO_2)

The federal standards were set to protect public health, including that of sensitive individuals; thus, the EPA is tasked with updating the standards periodically as more medical research is available regarding the health effects of the criteria pollutants.

2.2.2 - California Clean Air Act

The California legislature enacted the California Clean Air Act (CCAA) in 1988 to address air quality issues of concern not fully addressed by the federal Clean Air Act at the time. California's air quality problems were and continue to be some of the most severe in the nation and required additional actions beyond the federal mandates. The California Air Resources Board (ARB) administers California Ambient Air Quality Standards (CAAQS) for the 10 air pollutants designated in the CCAA. The 10 State air pollutants are the six federal standards listed above as well as visibility-reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. It should be noted that the EPA recently reinstated California's waiver for its GHG and Zero-Emission Vehicle (ZEV) mandates that were more stringent than other federal regulations implementing the Clean Air Act.[7]

[6] United States Environmental Protection Agency (EPA). 2016. NAAQS Table. December 20. Website: https://www.epa.gov/criteria-air-pollutants/naaqs-table. Accessed August 9, 2022.

[7] United States Environmental Protection Agency (EPA). 2022. WHAT THEY ARE SAYING: EPA Restoration of California Waiver Will Support State Climate Action, Improve Air Quality, and Advance our Electric Vehicle Future. March 11. Website: https://www.epa.gov/newsreleases/what-they-are-saying-epa-restoration-california-waiver-will-support-state-climate. Accessed August 9, 2022.

2.2.3 - Toxic Air Contaminants

A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations. There are no ambient air quality standards for TAC emissions. TACs are regulated in terms of health risks to individuals and populations exposed to the pollutants. The 1990 Clean Air Act Amendments significantly expanded the EPA's authority to regulate Hazardous Air Pollutants (HAPs). Section 112 of the Clean Air Act lists 187 HAPs to be regulated by source category. Authority to regulate these pollutants was delegated to individual states. The ARB and local air districts regulate TACs and HAPs in California.

The California Almanac of Emissions and Air Quality—2009 Edition presents the relevant concentration and cancer risk data for the 10 TACs that pose the most substantial health risk in California based on available data.[8] The 10 TACs are acetaldehyde, benzene, 1.3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and diesel particulate matter (DPM).

Diesel Particulate Matter

Some studies indicate that DPM poses the greatest health risk among the TACs listed above. A 10-year research program demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk.[9] In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

DPM differs from other TACs in that it is not a single substance, but a complex mixture of hundreds of substances. Although DPM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. However, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The ARB has made preliminary concentration estimates based on a DPM exposure method. This method uses the ARB emissions inventory's PM_{10} database, ambient PM_{10} monitoring data, and the results from several studies to estimate concentrations of DPM.

Benzene

Benzene, naphthalene, and ethylbenzene are the only TACs with cancer toxicity values from gasoline dispensing facilities, with benzene accounting for nearly 85 percent of cancer risk from gasoline.

[8] California Air Resources Board (ARB). 2009. The California Almanac of Emissions and Air Quality—2009 Edition. Website: https://www.arb.ca.gov/aqd/almanac/almanac09/almanac2009 all.pdf.

[9] California Air Resources Board (ARB). 1998. The Toxic Air Contaminant Identification Process: Toxic Air Contaminant Emissions from Diesel-fueled Engines. Website: www.arb.ca.gov/toxics /dieseltac/factsht1.pdf.

According to the California Air Pollution Control Officers Association (CAPCOA), not until the benzene emissions are three orders of magnitude above the rate of an increase of 10 per million cancer risk, do the emissions of xylene begin to cause acute adverse health effects.

Benzene is found in the air from emissions from burning coal and oil, gasoline service stations, and motor vehicle exhaust. Acute (short-term) inhalation exposure of humans to benzene may cause drowsiness, dizziness, headaches, as well as eye, skin, and respiratory tract irritation, and, at high levels, unconsciousness. Chronic (long-term) inhalation exposure has caused various disorders in the blood, including reduced numbers of red blood cells and aplastic anemia, in occupational settings. Reproductive effects have been reported for women exposed by inhalation to high levels, and adverse effects on the developing fetus have been observed in animal tests. Increased incidence of leukemia (cancer of the tissues that form white blood cells) have been observed in humans occupationally exposed to benzene. The EPA has classified benzene as known human carcinogen for all routes of exposure.[10]

2.2.4 - Air Pollutant Description and Health Effects

The federal and State ambient air quality standards, relevant effects, properties, and sources of the air pollutants are summarized in Table 1.

[10] United States Environmental Protection Agency (EPA). 1992, with updates in 2000 and 2012. Benzene. Website: https://www.epa.gov/sites/default/files/2016-09/documents/benzene.pdf. Accessed January 20, 2022.

Table 1: Description of Air Pollutants

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources
Ozone	1 Hour	0.09 ppm	—	Irritate respiratory system; reduce lung function; breathing pattern changes; reduction of breathing capacity; inflame and damage cells that line the lungs; make lungs more susceptible to infection; aggravate asthma; aggravate other chronic lung diseases; cause permanent lung damage; some immunological changes; increased mortality risk; vegetation and property damage.	Ozone is a photochemical pollutant as it is not emitted directly into the atmosphere but is formed by a complex series of chemical reactions between volatile organic compounds (VOC), nitrogen oxides (NO_X), and sunlight. Ozone is a regional pollutant that is generated over a large area and is transported and spread by the wind. Hot, sunny, and calm weather conditions are favorable to ozone formation.	Ozone is a secondary pollutant; thus, it is not emitted directly into the lower level of the atmosphere. The primary sources of ozone precursors (VOC and NO_X) are mobile sources (on-road and off-road vehicle exhaust).
	8 Hours	0.070 ppm	0.070 ppm[f]			
CO	1 Hour	20 ppm	35 ppm	Ranges depend on exposure: slight headaches; nausea; aggravation of angina pectoris (chest pain) and other aspects of coronary heart disease; decreased exercise tolerance in persons with peripheral vascular disease and lung disease; impairment of central nervous system functions; possible increased risk to fetuses; death.	CO is a colorless, odorless, toxic gas. CO is somewhat soluble in water; therefore, rainfall and fog can suppress CO conditions. CO enters the body through the lungs, dissolves in the blood, replaces oxygen as an attachment to hemoglobin, and reduces available oxygen in the blood.	CO is produced by incomplete combustion of carbon-containing fuels (e.g., gasoline, diesel fuel, and biomass). Sources include motor vehicle exhaust, industrial processes (metals processing and chemical manufacturing), residential wood-burning, and natural sources.
	8 Hours	9.0 ppm	9 ppm			
NO_2[b]	1 Hour	0.18 ppm	0.100 ppm	Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; contribution to atmospheric discoloration; increased visits to hospital for respiratory illnesses.	During combustion of fossil fuels, oxygen reacts with nitrogen to produce nitrogen oxides—NO_X (NO, NO_2, NO_3, N_2O, N_2O_3, N_2O_4, and N_2O_5). NO_X is a precursor to ozone, PM_{10}, and $PM_{2.5}$ formation. NO_X can react with compounds to form nitric acid and related small particles and result in PM-related health effects.	NO_X is produced in motor vehicle internal combustion engines and fossil fuel-fired electric utility and industrial boilers. NO_2 forms quickly from NO_X emissions. NO_2 concentrations near major roads can be 30 to 100 percent higher than those at monitoring stations.
	Annual	0.030 ppm	0.053 ppm			

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources
SO_2[c]	1 Hour	0.25 ppm	0.075 ppm	Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.	SO_2 is a colorless, pungent gas. At levels greater than 0.5 ppm, the gas has a strong odor like rotten eggs. Sulfur oxides (SO_X) include SO_2 and sulfur trioxide. Sulfuric acid is formed from SO_2, which can lead to acid deposition and can harm natural resources and materials. Although SO_2 concentrations have been reduced to levels well below State and federal standards, further reductions are desirable because SO_2 is a precursor to sulfate and PM_{10}.	Human caused sources include fossil fuel combustion, mineral ore processing, and chemical manufacturing. Volcanic emissions are a natural source of SO_2. The gas can also be produced in the air by dimethyl sulfide and hydrogen sulfide. SO_2 is removed from the air by dissolution in water, chemical reactions, and transfer to soils and ice caps. The SO_2 levels in the State are well below the maximum standards.
	3 Hours	—	0.5 ppm			
	24 Hours	0.04 ppm	0.14 (for certain areas)			
	Annual	—	0.030 ppm (for certain areas)			
Particulate matter (PM_{10})	24 hours	50 µg/m^3	150 µg/m^3	• Short-term exposure (hours/days): irritation of the eyes, nose, throat; coughing; phlegm; chest tightness; shortness of breath; aggravate existing lung disease, causing asthma attacks and acute bronchitis; those with heart disease can suffer heart attacks and arrhythmias. • Long-term exposure: reduced lung function; chronic bronchitis; changes in lung morphology; death.	Suspended particulate matter is a mixture of small particles that consist of dry solid fragments, droplets of water, or solid cores with liquid coatings. The particles vary in shape, size, and composition. PM_{10} refers to particulate matter that is between 2.5 and 10 microns in diameter, (1 micron is one-millionth of a meter). $PM_{2.5}$ refers to particulate matter that is 2.5 microns or less in diameter, about one-thirtieth the size of the average human hair.	Stationary sources include fuel or wood combustion for electrical utilities, residential space heating, and industrial processes; construction and demolition; metals, minerals, and petrochemicals; wood products processing; mills and elevators used in agriculture; erosion from tilled lands; waste disposal, and recycling. Mobile or transportation-related sources are from vehicle exhaust and road dust. Secondary particles form from reactions in the atmosphere.
	Mean	20 µg/m^3	—			
Particulate matter ($PM_{2.5}$)	24 Hours	—	35 µg/m^3			
	Annual	12 µg/m^3	12 µg/m^3			
Visibility-reducing particles	8 Hours	See note below[d]				

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources
Sulfates	24 Hours	25 µg/m^3	—	Decrease in ventilatory function; aggravation of asthmatic symptoms; aggravation of cardiopulmonary disease; vegetation damage; degradation of visibility; and property damage.	The sulfate ion is a polyatomic anion with the empirical formula SO_4^{2-}. Sulfates occur in combination with metal and/or hydrogen ions. Many sulfates are soluble in water.	Sulfates are particulates formed through the photochemical oxidation of SO_2. In California, the main source of sulfur compounds is combustion of gasoline and diesel fuel.
Lead[e]	30 days	1.5 µg/m^3	—	Lead accumulates in bones, soft tissue, and blood and can affect the kidneys, liver, and nervous system. It can cause impairment of blood formation and nerve conduction, behavior disorders, mental retardation, neurological impairment, learning deficiencies, and low IQs.	Lead is a solid heavy metal that can exist in air pollution as an aerosol particle component. Leaded gasoline was used in motor vehicles until around 1970. Lead concentrations have not exceeded State or federal standards at any monitoring station since 1982.	Lead ore crushing, lead ore smelting, and battery manufacturing are currently the largest sources of lead in the atmosphere in the United States. Other sources include dust from soils contaminated with lead-based paint, solid waste disposal, and crustal physical weathering.
	Quarter	—	1.5 µg/m^3			
	Rolling 3-month average	—	0.15 µg/m^3			
Vinyl chloride[e]	24 Hours	0.01 ppm	—	Short-term exposure to high levels of vinyl chloride in the air causes central nervous system effects, such as dizziness, drowsiness, and headaches. Epidemiological studies of occupationally exposed workers have linked vinyl chloride exposure to development of a rare cancer, liver angiosarcoma, and have suggested a relationship between exposure and lung and brain cancers.	Vinyl chloride, or chloroethene, is a chlorinated hydrocarbon and a colorless gas with a mild, sweet odor. In 1990, the ARB identified vinyl chloride as a TAC and estimated a cancer unit risk factor.	Most vinyl chloride is used to make polyvinyl chloride plastic and vinyl products, including pipes, wire and cable coatings, and packaging materials. It can be formed when plastics containing these substances are left to decompose in solid waste landfills. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites.
Hydrogen sulfide	1 Hour	0.03 ppm	—	High levels of hydrogen sulfide can cause immediate respiratory arrest. It can irritate the eyes and respiratory tract and cause headache, nausea, vomiting, and cough. Long exposure can cause pulmonary edema.	Hydrogen sulfide (H_2S) is a flammable, colorless, poisonous gas that smells like rotten eggs.	Manure, storage tanks, ponds, anaerobic lagoons, and land application-sites are the primary sources of hydrogen sulfide. Anthropogenic sources include the combustion of sulfur containing fuels (oil and coal).

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources
VOC		There are no State or federal standards for VOCs because they are not classified as criteria pollutants.		Although health-based standards have not been established for VOCs, health effects can occur from exposures to high concentrations because of interference with oxygen uptake. In general, concentrations of VOCs are suspected to cause eye, nose, and throat irritation; headaches; loss of coordination; nausea and damage to the liver, the kidneys, and the central nervous system. Many VOCs have been classified TACs.	Reactive organic gases (ROGs), or VOCs, are defined as any compound of carbon—excluding CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROG and VOCs, the two terms are often used interchangeably.	Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM_{10} and lower visibility.
Diesel particulate matter (DPM)		There are no ambient air quality standards for DPM.		Some short-term (acute) effects of DPM exposure include eye, nose, throat, and lung irritation, coughs, headaches, lightheadedness, and nausea. Studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems. Human studies on the carcinogenicity of DPM demonstrate an increased risk of lung cancer, although the increased risk cannot be clearly attributed to diesel exhaust exposure.	DPM is a source of $PM_{2.5}$—diesel particles are typically 2.5 microns and smaller. Diesel exhaust is a complex mixture of thousands of particles and gases that is produced when an engine burns diesel fuel. Organic compounds account for 80 percent of the total particulate matter mass, which consists of compounds such as hydrocarbons and their derivatives, and polycyclic aromatic hydrocarbons and their derivatives. Fifteen polycyclic aromatic hydrocarbons are confirmed carcinogens, several which are found in diesel exhaust.	Diesel exhaust is a major source of ambient particulate matter pollution in urban environments. Typically, the main source of DPM is from combustion of diesel fuel in diesel-powered engines. Such engines are in on-road vehicles such as diesel trucks, off-road construction vehicles, diesel electrical generators, and various pieces of stationary construction equipment.

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources

Notes:
ppm=parts per million (concentration) µg/m^3=micrograms per cubic meter Annual=Annual Arithmetic Mean 30-day=30-day average Quarter=Calendar quarter

[a] Federal standard refers to the primary NAAQS, or the levels of air quality necessary, with an adequate margin of safety to protect the public health. All standards listed are primary standards except for 3-Hour SO_2, which is a secondary standard. A secondary standard is the level of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[b] To attain the 1-hour NO_2 national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb) (0.100 ppm).

[c] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[d] Visibility-reducing particles: In 1989, the ARB converted both the general Statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are “extinction of 0.23 per kilometer” and “extinction of 0.07 per kilometer” for the Statewide and Lake Tahoe Air Basin standards, respectively.

[e] The ARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[f] The EPA Administrator approved a revised 8-hour ozone standard of 0.07 ppb on October 1, 2015. The new standard went into effect 60 days after publication of the Final Rule in the Federal Register. The Final Rule was published in the Federal Register on October 26, 2015, and became effective on December 28, 2015.

[g] The official level of the 1-hour NO_2 standard is 100 ppb, equal to 0.100 ppm, which is shown here for the purpose of clearer comparison to the other standards.

Source of effects, properties, and sources: United States Environmental Protection Agency (EPA). 2003. Particle Pollution and your Health. EPA-452/F-03-001. September. Website: https://www.airnow.gov/publications/air-quality-and-your-health/partical-pollution-and-your-health/. Accessed August 9, 2022.
United States Environmental Protection Agency (EPA). 2009. Ozone and your Health EPA-456/F-09-001. Website: https://www.airnow.gov/publications/air-quality-and-your-health/ozone-and-your-health/. Accessed August 9, 2022.
United States Environmental Protection Agency (EPA). 2009. Fact Sheet, Proposed Revisions to the National Ambient Air Quality Standards for Nitrogen Dioxide. July. Website: https://www.gpo.gov/fdsys/pkg/FR-2009-07-15/pdf/E9-15944.pdf. Accessed August 9, 2022.
United States Environmental Protection Agency (EPA). 2010. Technology Transfer Network, Air Toxics Website. Page updated December 21, 2018. Health Effects Notebook for Hazardous Air Pollutants. December. Website: https://www.epa.gov/haps/health-effects-notebook-hazardous-air-pollutants. Accessed August 9, 2022.
National Toxicology Program. 2011. Report on Carcinogens, Twelfth Edition; U.S. Department of Health and Human Services, Public Health Service. June 10. Benzene. Website: http://ntp.niehs.nih.gov/ntp/roc/twelfth/profiles/Benzene.pdf. Accessed August 9, 2022.
National Toxicology Program. 2016. Report on Carcinogens, Fourteenth Edition; U.S. Department of Health and Human Services, Public Health Service. Diesel Exhaust Particles. Website: https://ntp.niehs.nih.gov/ntp/roc/content/profiles/dieselexhaustparticulates.pdf. Accessed August 9, 2022.
California Environmental Protection Agency (Cal/EPA). 2002. Office of Environmental Health Hazard Assessment. Health Effects of Diesel Exhaust. Website: https://oehha.ca.gov/media/downloads/calenviroscreen/indicators/diesel4-02.pdf. Accessed August 9, 2022.
California Air Resources Board (ARB). 2009. Vinyl Chloride. Website: https://ww2.arb.ca.gov/resources/vinyl-chloride-and-health. Accessed August 9, 2022.
United States Environmental Protection Agency (EPA). 2017. Indoor Air Quality. Sources of Indoor Air Pollution—Organic Gases (Volatile Organic Compounds—VOCs). November. Website: www.epa.gov/iaq/voc.html. Accessed August 9, 2022.
National Toxicology Program. 2011. Report on Carcinogens, Twelfth Edition; U.S. Department of Health and Human Services, Public Health Service. Diesel Exhaust Particles. Website: https://oehha.ca.gov/media/downloads/proposition-65/crnr/comments/12throc-complete.pdf. Accessed August 9, 2022.
Source of standards: South Coast Air Quality Management District (SCAQMD). 2018. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin. February. Website http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2. Accessed August 9, 2022.

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Several pollutants listed in Table 1 are not addressed in this analysis. An analysis of lead is not included in this report because the proposed project would not generate a new, significant source of lead emissions. According to aerial imagery in the Phase I Environmental Site Assessment (Phase I ESA), all on-site improvements, including structures and outbuildings, were constructed after 2016 and would not contain hazardous materials such as lead-based paint or asbestos-containing material. Visibility-reducing particles are not explicitly addressed in this analysis because particulate matter is addressed under the analysis for PM_{10} and $PM_{2.5}$. Given the nature of the proposed project, no components of the proposed project would result in vinyl chloride or hydrogen sulfide emissions in any substantial quantity; therefore, these compounds are not further evaluated in this report.

Asbestos

Asbestos is the name given to several naturally occurring fibrous silicate minerals that have been mined for their useful properties, such as thermal insulation, chemical and thermal stability, and high tensile strength. The three most common types of asbestos are chrysotile, amosite, and crocidolite. Chrysotile, also known as white asbestos, is the most common type of asbestos found in buildings. Chrysotile makes up approximately 90 to 95 percent of all asbestos contained in buildings in the United States. Exposure to asbestos is a health threat; exposure to asbestos fibers may result in health issues such as lung cancer, mesothelioma (a rare cancer of the thin membranes lining the lungs, chest, and abdominal cavity), and asbestosis (a non-cancerous lung disease that causes scarring of the lungs). Exposure to asbestos can occur during demolition or remodeling of buildings that were constructed prior to the 1977 ban on asbestos for use in buildings. Although construction activity would result in the demolition of several small outbuildings associated with agricultural use on the project site, these structures would not contain asbestos. According to aerial imagery in the Phase I ESA, all on-site improvements, including structures, were constructed after 2016, and would not contain hazardous materials such as lead-based paint or asbestos-containing material. Exposure to naturally occurring asbestos can occur during soil-disturbing activities in areas with deposits present. No naturally occurring asbestos is located near the project site.[11]

Valley Fever

Valley Fever, or coccidioidomycosis, is an infection caused by inhalation of spores of the fungus, *Coccidioides immitis* (*C. immitis*). Spores live in soil and can live for an extended time in harsh environmental conditions. Activities or conditions that increase the amount of fugitive dust, including dust storms, grading, and recreational off-road activities, contribute to greater exposure.

Much of California is considered an endemic area for Valley Fever and a total of 9,004 new Valley Fever cases were reported in 2019.[12] According to the most readily-available, the California Department of Public Health, in 2020, there were 309 cases of Valley Fever in Tulare County with 64.3 per 100,000 case patients and in 2021, 170 cases of Valley Fever with 61.0 per 100,000 case patients.[13] Nearly 75 percent

[11] California Department of Conservation, Division of Mine Reclamation. 2000. A General Location Guide for Ultramafic Rocks in California—Areas More likely to Contain Naturally Occurring Asbestos. August. Website: https://ww2.arb.ca.gov/sites/default/files/classic//toxics/asbestos/ofr_2000-019.pdf. Accessed August 9, 2022.

[12] California Department of Public Health. 2019. Epidemiologic Summary of Valley Fever in California.

[13] California Department of Health. 2022. Epidemiologic Summary of Valley Fever (Coccoidiomycosis) in California, 2020-2021. Website: https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/CocciEpiSummary2020-2021.pdf. Accessed April 27, 2023.

of people who get Valley Fever miss work or school for an average of two weeks. More than 40 percent of people who get Valley Fever need to be hospitalized. The number of Valley Fever cases reported nationally has more than quadrupled in the past decade. There were over 11,000 reported cases in 2015, and the Center for Disease Control and Prevention (CDC) estimates that an additional 150,000 cases go undiagnosed each year. About 28 percent of all cases occur in California. There have been several outbreaks of Valley Fever in California in recent years.

The distribution of *C. immitis* is not uniform, and growth sites are commonly small (a few tens of meters) and widely scattered. Known sites appear to have some ecological factors in common, suggesting that certain physical, chemical, and biological conditions are more favorable for *C. immitis* growth. Avoidance, when possible, of sites favorable for the occurrence of *C. immitis* is a prudent risk management strategy. Listed below are ecologic factors and sites favorable for the occurrence of *C. immitis*:

1. Rodent burrows (often a favorable site for *C. immitis*, perhaps because temperatures are more moderate and humidity higher than on the ground surface).
2. Old (prehistoric) Native American campsites near fire pits.
3. Areas with sparse vegetation and alkaline soils.
4. Areas with high salinity soils.
5. Areas adjacent to arroyos (where residual moisture may be available).
6. Packrat middens.
7. Upper 30 centimeters of the soil horizon, especially in virgin undisturbed soils.
8. Sandy well aerated soil with relatively high water-holding capacities.

Sites within endemic areas less favorable for the occurrence of *C. immitis* include:

1. Cultivated fields.
2. Heavily vegetated areas (e.g., grassy lawns).
3. Higher elevations (above 7,000 feet.)
4. Areas where commercial fertilizers (e.g., ammonium sulfate) have been applied.
5. Areas that are continually wet.
6. Paved (asphalt or concrete) or oiled areas.
7. Soils containing abundant microorganisms.
8. Heavily urbanized areas where there is little undisturbed virgin soil.[14]

The project site currently contains several small outbuildings associated with agricultural use and is used for agricultural purposes. Exposure to *C. immitis* could occur during soil-disturbing activities in areas with deposits present; however, because most of the project site and immediately surrounding vicinity consists of cultivated fields, areas where fertilizers are used, and urbanized development, the

[14] United States Geological Survey (USGS). 2000. Operational Guidelines (Version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever), 2000, Open-File Report 2000-348. Website: https://pubs.usgs.gov/of/2000/0348/pdf/of00-348.pdf. Accessed August 9, 2022.

project site would have low probability of *C. immitis* growth sites or exposure from disturbed soil. No further analysis is necessary.

2.3 - Existing Air Quality Conditions

The local air quality can be evaluated by reviewing relevant air pollution concentrations near the project site. Table 2 summarizes 2018 through 2020 published monitoring data, which is the most recent data available as of this writing. The table displays data from the Visalia North Church Street Station (located approximately 9 miles southeast of the project site), which is the closest monitoring station to the project site with data available. The data shows that during the past few years, the project site and vicinity have exceeded the standards for ozone (State and national), PM_{10} (State and national), and $PM_{2.5}$ (national). The data in the table reflects the concentration of the pollutants in the air, measured using air monitoring equipment. This differs from emissions, which are calculations of a pollutant being emitted over a certain period. No recent monitoring data for Tulare County or the Air Basin was available for CO or SO_2. Generally, no monitoring is conducted for pollutants that are no longer likely to exceed ambient air quality standards.

Table 2: Air Quality Monitoring Summary

Air Pollutant	Averaging Time	Item	2018	2019	2020
Ozone[1]	1 Hour	Max 1 Hour (ppm)	**0.112**	0.093	**0.127**
		Days > State Standard (0.09 ppm)	**8**	0	**7**
	8 Hour	Max 8 Hour (ppm)	**0.094**	**0.082**	**0.102**
		Days > State Standard (0.07 ppm)	**53**	**22**	**36**
		Days > National Standard (0.075 ppm)	**27**	**5**	**21**
Carbon monoxide (CO)	8 Hour	Max 8 Hour (ppm)	ND	ND	ND
		Days > State Standard (9.0 ppm)	ND	ND	ND
		Days > National Standard (9 ppm)	ND	ND	ND
Nitrogen dioxide (NO_2)[1]	Annual	Annual Average (ppm)	0.010	0.009	0.009
	1 Hour	Max 1 Hour (ppm)	0.069	0.070	0.053
		Days > State Standard (0.18 ppm)	0	0	0
Sulfur dioxide (SO_2)	Annual	Annual Average (ppm)	ND	ND	ND
	24 Hour	Max 24 Hour (ppm)	ND	ND	ND
		Days > State Standard (0.04 ppm)	ND	ND	ND
Inhalable coarse particles (PM_{10})[1]	Annual	Annual Average (µg/m^3)	**52.0**	**46.3**	**60.5**
	24 Hour	24 Hour (µg/m^3)	**159.6**	**418.5**	**305.7**
		Days > State Standard (50 µg/m^3)	**162**	**115**	**151**
		Days > National Standard (150 µg/m^3)	0	**5**	**19**
	Annual	Annual Average (µg/m^3)[2]	**17.4**	12.0	**ND**

Air Pollutant	Averaging Time	Item	2018	2019	2020
Fine particulate matter ($PM_{2.5}$)[1]	24 Hour	24 Hour (µg/m^3)	**86.8**	**47.2**	**127.1**
		Days > National Standard (35 µg/m^3)	**12**	**6**	**20**

Notes:
> = exceed
µg/m^3 = micrograms per cubic meter
Bold = exceedance
max = maximum
National Standard = National Ambient Air Quality Standard
ND = no data
ppm = parts per million
State Standard = California Ambient Air Quality Standard
[1] Visalia North Church Street
[2] The State $PM_{2.5}$ standard is the average of the year's quarterly averages. The California annual standard is *exceeded* when the State Annual Average is greater than 12 micrograms per cubic meter and is *violated* when the State Annual Standard Designation Value (the highest State annual average for three consecutive years) is greater than 12 micrograms per cubic meter.
Sources:
California Air Resources Board (ARB). 2022. Trends Summary. Website: https://www.arb.ca.gov/adam/trends/trends1.php. Accessed August 9, 2022.
California Air Resources Board (ARB). 2020. Top Four Summary. Website: https://www.arb.ca.gov/adam/topfour/topfour1.php. Accessed August 9, 2022.

The health impacts of the various air pollutants of concern can be presented in a number of ways. The clearest in comparison is to the State and federal ozone standards. If concentrations are below the standard, it is safe to say that no health impact would occur to anyone. When concentrations exceed the standard, impacts will vary based on the amount by which the standard is exceeded and the relative location of sensitive receptors. The EPA developed the Air Quality Index (AQI) as an easy-to-understand measure of health impacts compared with concentrations in the air. Table 3 provides a description of the health impacts of ozone at different concentrations.

Table 3: Air Quality Index and Health Effects from Ozone

Air Quality Index/ 8-hour Ozone Concentration	Health Effects Description
AQI 100—Moderate	**Sensitive Groups**: Children and people with asthma are the groups most at risk.
Concentration 75 ppb	**Health Effects Statements**: Unusually sensitive individuals may experience respiratory symptoms.
	Cautionary Statements: Unusually sensitive people should consider limiting prolonged outdoor exertion.
AQI 150—Unhealthy for Sensitive Groups	**Sensitive Groups**: Children and people with asthma are the groups most at risk.

Air Quality Index/ 8-hour Ozone Concentration	Health Effects Description
Concentration 95 ppb	**Health Effects Statements**: Increasing likelihood of respiratory symptoms and breathing discomfort in active children and adults and people with respiratory disease, such as asthma.
	Cautionary Statements: Active children and adults, and people with respiratory disease, such as asthma, should limit prolonged outdoor exertion.
AQI 200—Unhealthy	**Sensitive Groups**: Children and people with asthma are the groups most at risk.
Concentration 115 ppb	**Health Effects Statements**: Greater likelihood of respiratory symptoms and breathing difficulty in active children and adults and people with respiratory disease, such as asthma; possible respiratory effects in general population.
	Cautionary Statements: Active children and adults, and people with respiratory disease, such as asthma, should avoid prolonged outdoor exertion; everyone else, especially children, should limit prolonged outdoor exertion.
AQI 210—Very Unhealthy	**Sensitive Groups**: Children and people with asthma are the groups most at risk.
Concentration 139 ppb	**Health Effects Statements**: Increasingly severe symptoms and impaired breathing likely in active children and adults and people with respiratory disease, such as asthma; increasing likelihood of respiratory effects in general population.
	Cautionary Statements: Active children and adults, and people with respiratory disease, such as asthma, should avoid all outdoor exertion; everyone else, especially children, should limit outdoor exertion.
Source: Air Now. 2022. AQI Calculator: AQI to Concentration. Website: https://www.airnow.gov/aqi/aqi-calculator/. Accessed August 9, 2022.	

Based on the AQI scale for the 8-hour ozone standard, the City of Visalia experienced no days in the last three years that would be categorized as Very Unhealthy (AQI 210) or unhealthful (AQI 200), and as many as 27 days that were moderate (AQI 100) as measured at the Visalia North Church Street monitoring station. The highest reading was 102 parts per billion (ppb) in 2020 compared with the 95-ppb cutoff point for unhealthful for sensitive groups (AQI 150), but lower than the 115-ppb cutoff point for unhealthy (AQI 200).

The other nonattainment pollutant of concern is $PM_{2.5}$. An AQI of 100 or lower is considered moderate and would be triggered by a 24-hour average concentration of 35.4 µg/m^3, which is considered an exceedance of the federal $PM_{2.5}$ standard. The monitoring station nearest the project site exceeded the standard by approximately 38 days in the 3-year period spanning from 2018 to 2020. People with respiratory or heart disease, the elderly and children are the groups most at risk. Unusually sensitive people should consider reducing prolonged or heavy exertion. The AQI of 150 is classified as unhealthful for sensitive groups with a $PM_{2.5}$ concentration of 55.4 µg/m^3. At this concentration, there is increasing likelihood of respiratory symptoms in sensitive individuals, aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease, and in the elderly. People with respiratory or heart disease, the elderly, and children should limit prolonged exertion. The highest concentration recorded in Visalia was 121 µg/m^3 in 2020. At

this concentration, increased aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly, and increased respiratory effects in general population would occur. People with respiratory or heart disease, the elderly, and children should avoid prolonged exertion; everyone else should limit prolonged exertion when the AQI exceeds this level. The relationship of the AQI to health effects in shown Table 4.

Table 4: Air Quality Index and Health Effects of Particulate Pollution

Air Quality Index/24-hour Average $PM_{2.5}$ Concentration	Health Effects Description
AQI 51–100—Moderate	**Sensitive Groups**: People with respiratory or heart disease, the elderly and children are the groups most at risk.
Concentration 12.1-35.4 µg/m^3	**Health Effects Statements**: Unusually sensitive people should consider reducing prolonged or heavy exertion.
	Cautionary Statements: Unusually sensitive people: Consider reducing prolonged or heavy exertion. Watch for symptoms such as coughing or shortness of breath. These are signs to take it easier.
AQI 100–150—Unhealthy for Sensitive Groups	**Sensitive Groups**: People with respiratory or heart disease, the elderly and children are the groups most at risk.
Concentration 35.5-55.4 µg/m^2	**Health Effects Statements**: Increased aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly; increased respiratory effects in general population.
	Cautionary Statements: People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.
AQI 151–200—Unhealthy	**Sensitive Groups**: Everyone
Concentration 55.5-150.4 µg/m^3	**Health Effects Statements**: Increased aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly; increased respiratory effects in general population.
	Cautionary Statements: Sensitive groups: Avoid prolonged or heavy exertion. Consider moving activities indoors or rescheduling. Everyone else: Reduce prolonged or heavy exertion. Take more breaks during outdoor activities.
AQI 201-300—Very Unhealthy	**Sensitive Groups**: People with respiratory or heart disease, the elderly and children are the groups most at risk.
Concentration 150.5-250.4 µg/m^3	**Health Effects Statements**: Significant aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly; significant increase in respiratory effects in general population.
	Cautionary Statements: People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion.
Source: United States Environmental Protection Agency (EPA). 2014. Air Quality Index for Particle Pollution. Website: https://www.airnow.gov/aqi/aqi-basics/using-air-quality-index/. Accessed August 9, 2022. United States Environmental Protection Agency (EPA). 2014. AQI Calculator. Website: https://www.airnow.gov/aqi/aqi-calculator/. Accessed August 9, 2022.	

2.3.1 - Attainment Status

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards.

Each standard has a different definition, or "form" of what constitutes attainment, based on specific air quality statistics. For example, the federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the federal annual $PM_{2.5}$ standard is met if the 3-year average of the annual average $PM_{2.5}$ concentration is less than or equal to the standard.

The current attainment designations for the Air Basin are shown in Table 5. The Air Basin is designated as nonattainment for ozone, PM_{10}, and $PM_{2.5}$.

Table 5: San Joaquin Valley Air Basin Attainment Status

Pollutant	State Status	National Status
Ozone, 1-hour	Nonattainment/Severe	No Standard
Ozone, 8-hour	Nonattainment	Nonattainment/Extreme
CO	Attainment	Attainment
NO_2	Attainment	Attainment
SO_2	Attainment	Attainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
Lead	Attainment	Unclassified/Attainment
Source: San Joaquin Valley Air Pollution Control District (Valley Air District). Website: https://www.valleyair.org/aqinfo/attainment.htm. Accessed August 9, 2022.		

2.4 - Air Quality Plans and Regulations

Air pollutants are regulated at the national, state, and air basin or county level; each agency has a different level of regulatory responsibility. The EPA regulates at the national level. The ARB regulates at the State level. The Valley Air District regulates at the air basin level.

The EPA is responsible for national and interstate air pollution issues and policies. The EPA sets national vehicle and stationary source emission standards, oversees approval of all State Implementation Plans (SIPs), provides research and guidance for air pollution programs, and sets the NAAQS.

A SIP is a document prepared by each state describing existing air quality conditions and measures that will be followed to attain and maintain federal air standards. The SIP for the State of California is administered by the ARB, which has overall responsibility for Statewide air quality maintenance and air pollution prevention. California's SIP incorporates individual federal attainment plans for regional air districts—an air district prepares their federal attainment plan, which is sent to the ARB to be approved and incorporated into the California SIP. Federal attainment plans include the technical foundation for understanding air quality (e.g., emission inventories and air quality monitoring), control measures and strategies, and enforcement mechanisms.

Areas designated nonattainment must develop air quality plans and regulations to achieve standards by specified dates, depending on the severity of the exceedances. For much of the country, implementation of federal motor vehicle standards and compliance with federal permitting requirements for industrial sources are adequate to attain air quality standards on schedule. For many areas of California, however, additional State and local regulation is required to achieve the standards. Regulations adopted by California are described below.

2.4.1 - California Regulations

Low Emission Vehicle Program

The ARB first adopted Low Emission Vehicle (LEV) program standards in 1990. These first LEV standards ran from 1994 through 2003. LEV II regulations, running from 2004 through 2010, represented continuing progress in emission reductions. As the State's passenger vehicle fleet continues to grow and more sport utility vehicles and pickup trucks are used as passenger cars rather than work vehicles, the more stringent LEV II standards were adopted to provide reductions necessary for California to meet federally mandated clean air goals outlined in the 1994 SIP. In 2012, ARB adopted the LEV III amendments to California's LEV regulations. These amendments, also known as the Advanced Clean Cars Program, include more stringent emission standards for model years 2017 through 2025 for both criteria pollutants and GHGs for new passenger vehicles.[15]

California Air Resources Board Airborne Toxic Control Measure for Asbestos

In July 2001, the ARB approved an Airborne Toxic Control Measure (ATCM) for construction, grading, quarrying, and surface mining operations to minimize emissions of naturally occurring asbestos. The regulation requires application of Best Management Practices (BMPs) to control fugitive dust in areas known to have naturally occurring asbestos and requires notification to the local air district prior to commencement of ground-disturbing activities. The measure establishes specific testing, notification and engineering controls prior to grading, quarrying, or surface mining in construction zones where naturally occurring asbestos is located on projects of any size. There are additional notification and engineering controls at work sites larger than 1 acre. These projects require the submittal of a "Dust Mitigation Plan" and approval by the air district prior to the start of a project.

Construction sometimes requires the demolition of existing buildings where construction occurs; the project site includes several small outbuildings associated with agricultural use which would be

[15] California Air Resources Board (ARB). 2012. Low Emission Vehicle Program. Website: http://www.arb.ca.gov/msprog/levprog/levprog.htm. Accessed August 9, 2022.

demolished as part of the proposed project. In addition, asbestos is also found in a natural state, known as naturally occurring asbestos. Exposure and disturbance of rock and soil that naturally contain asbestos can result in the release of fibers into the air and consequent exposure to the public. Asbestos most commonly occurs in ultramafic rock that has undergone partial or complete alteration to serpentine rock (serpentinite) and often contains chrysotile asbestos. In addition, another form of asbestos, tremolite, can be found associated with ultramafic rock, particularly near faults. Sources of asbestos emissions include unpaved roads or driveways surfaced with ultramafic rock, construction activities in ultramafic rock deposits, or rock quarrying activities where ultramafic rock is present. Exposure to naturally occurring asbestos can occur during soil-disturbing activities in areas with deposits present. However, as noted above, no naturally occurring asbestos is located near the project site.[16]

Areas are subject to the regulation if they are identified on maps published by the Department of Conservation as ultramafic rock units or if the Air Pollution Control Officer or owner/operator has knowledge of the presence of ultramafic rock, serpentine, or naturally occurring asbestos on the site. The measure also applies if ultramafic rock, serpentine, or asbestos is discovered during any operation or activity. Review of the Department of Conservation maps indicates that no ultramafic rock has been found near the project site.

Diesel Risk Reduction Plan

The ARB's Diesel Risk Reduction Plan has led to the adoption of new State regulatory standards for all new on-road, off-road, and stationary diesel-fueled engines and vehicles to reduce DPM emissions by about 90 percent overall from year 2000 levels. The projected emission benefits associated with the full implementation of this plan, including federal measures, are reductions in DPM emissions and associated cancer risks of 75 percent by 2010, and 85 percent by 2020.[17]

California Air Resources Board Regulation for In-Use Off-Road Diesel Vehicles

On July 26, 2007, the ARB adopted a regulation to reduce DPM and oxides of nitrogen (NO_X) emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. The regulation limits idling to no more than 5 consecutive minutes, requires reporting and labeling, and requires disclosure of the regulation upon vehicle sale. The ARB is enforcing that part of the rule with fines up to $10,000 per day for each vehicle in violation. Performance requirements of the rule are based on a fleet's average NO_X emissions, which can be met by replacing older vehicles with newer, cleaner vehicles or by applying exhaust retrofits. The regulation was amended in 2010 to delay the original timeline of the performance requirements, making the first compliance deadline January 1, 2014 for large fleets (over 5,000 horsepower), 2017 for medium fleets (2,501-5,000 horsepower), and 2019 for small fleets (2,500 horsepower or less).

[16] California Department of Conservation, Division of Mine Reclamation. 2000. A General Location Guide for Ultramafic Rocks in California—Areas More likely to Contain Naturally Occurring Asbestos. August. Website: https://ww2.arb.ca.gov/sites/default/files/classic//toxics/asbestos/ofr_2000-019.pdf. Accessed August 9, 2022.

[17] California Air Resources Board (ARB). 2000. Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles. Website: https://ww2.arb.ca.gov/our-work/programs/diesel-risk-reduction-plan. August 9, 2022.

The latest amendments to the Truck and Bus regulation became effective on December 31, 2014. The amended regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses met particulate matter (PM) filter requirements beginning January 1, 2012. Mandatory replacement of lighter and older heavier trucks began January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent.

The regulation applies to nearly all privately and federally owned diesel-fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds. The regulation provides a variety of flexibility options tailored to fleets operating low use vehicles, fleets operating in selected vocations like agricultural and construction, and small fleets of three or fewer trucks.

On-Road Heavy-Duty Vehicle Program

The ARB has adopted standards for emissions from various types of new on-road heavy-duty vehicles. Section 1956.8, Title 13, California Code of Regulations contains California's emission standards for on-road heavy-duty engines and vehicles, and test procedures. The ARB has also adopted programs to reduce emissions from in-use heavy-duty vehicles including the Heavy-Duty Diesel Vehicle Idling Reduction Program, the Heavy-Duty Diesel In-Use Compliance Program, the Public Bus Fleet Rule and Engine Standards, and the School Bus Program and others.[18]

Regulations for Heavy-Duty Vehicles/Trucks

California Air Resources Board Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling.

This ATCM adopted Section 2485 within Chapter 10, Article 1, Division 3, Title 13 in the California Code of Regulations. The measure limits the idling of diesel vehicles (i.e., commercial trucks over 10,000 pounds) to reduce emissions of toxics and criteria pollutants. The driver of any vehicle subject to this section: (1) shall not idle the vehicle's primary diesel engine for greater than 5 minutes at any location; and (2) shall not idle a diesel-fueled auxiliary power system for more than 5 minutes to power a heater, air conditioner, or any ancillary equipment on the vehicle if it has a sleeper berth and the truck is located within 100 feet of a restricted area (homes and schools).

California Air Resources Board Requirements to Reduce Idling Emissions from New and In-Use Trucks.

Amendments were made to Title 13 in California Code of Regulations in Sections 1956.8, 2404, 2424, 2425, and 2485. Among other things, the amendments state: "All new 2008 and subsequent model year heavy-duty diesel engines shall be equipped with an engine shutdown system that automatically shuts down the engine after 300 seconds of continuous idling operation once the vehicle is stopped, the transmission is set to 'neutral' or 'park,' and the parking brake is engaged. If the parking brake is not engaged, then the engine shutdown system shall shut down the engine after 900 seconds of continuous idling operation once the vehicle is stopped and the transmission is set to

[18] California Air Resources Board (ARB). 2013. The California Almanac of Air Quality and Emissions—2013 Edition. Website: https://ww2.arb.ca.gov/our-work/programs/resource-center/technical-assistance/air-quality-and-emissions-data/almanac. Accessed August 9, 2022.

'neutral' or 'park.'" There are a few conditions where the engine shutdown system can be overridden to prevent engine damage. Any trucks involved in the operation of the proposed project that are manufactured after 2008 would be consistent with this rule, which would ultimately reduce air emissions.

Statewide Truck and Bus Regulation

(Regulation to Reduce Emissions of DPM, Oxides of Nitrogen and Other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles, Title 13, California Code of Regulations, Section 2025). On December 12, 2008, the ARB approved this regulation (Regulation to Reduce Emissions of DPM, Oxides of Nitrogen and Other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles, Title 13, California Code of Regulations, Section 2025) to reduce emissions from existing on-road diesel trucks and buses operating in California. This regulation applies to all on-road heavy-duty diesel-fueled vehicles with a gross vehicle weight rating greater than 14,000 pounds, agricultural yard trucks with off-road certified engines, and certain diesel-fueled shuttle vehicles of any gross vehicle weight rating. Out-of-state trucks and buses that operate in California are also subject to the regulation. Under the regulation, older, heavier trucks (i.e., those with pre-2000 year engines and a gross vehicle weight rating greater than 26,000 pounds), are required to have installed a PM filter and must be replaced with a 2010 engine between 2015 and 2020, depending on the model year.

Air Toxics Contaminant Measure for Transportation Refrigeration Units and Transportation Refrigeration Generator Sets.

This measure was adopted by the ARB to reduce emissions of TAC emissions from in-use Transport Refrigeration Units (TRUs) and TRU generator sets used to power electrically driven refrigerated shipping.

2.4.2 - San Joaquin Valley Air Pollution Control District

The Valley Air District is responsible for controlling emissions primarily from stationary sources. The Valley Air District, in coordination with the eight countywide transportation agencies, is also responsible for developing, updating, and implementing air quality attainment plans for the Air Basin. It also has roles under CEQA.

Ozone Plans

The Air Basin is designated nonattainment of State and federal health-based air quality standards for ozone. To meet Clean Air Act requirements for the 1-hour ozone standard, the Valley Air District adopted an Extreme Ozone Attainment Demonstration Plan in 2004, with an attainment date of 2010. Although the EPA revoked the federal 1-hour ozone standard effective June 15, 2005, and replaced it with an 8-hour standard, the requirement to submit a plan for that standard remained in effect for the San Joaquin Valley.

The planning requirements for the 1-hour plan remain in effect until replaced by a federal 8-hour ozone attainment plan. The EPA approved the 2004 Extreme Ozone Attainment Demonstration Plan, including revisions to the plan, on March 8, 2010, effective April 7, 2010. However, the Air Basin failed to attain the standard in 2010 and was subject to a $29 million Clean Air Act penalty. The penalty is being collected through an additional $12 motor vehicle registration surcharge for each

passenger vehicle registered in the Air Basin that will be applied to pollution reduction programs in the region. The Valley Air District also instituted a more robust ozone episodic program to reduce emissions on days with the potential to exceed the ozone standards. On July 18, 2016, the EPA published in the Federal Register a final action determining that the San Joaquin Valley has attained the 1-hour ozone national ambient air quality standard. This determination was based on the most recent 3-year period (2012–2014) of sufficient, quality-assured, and certified data available at that time.[19]

The Valley Air District's most recent 2016 Plan for the 2008 8-Hour Ozone Standard addresses the federal mandates related to the 2008 8-hour ozone NAAQS.[20] The Valley Air District adopted the 2022 Plan for the 2015 8-hour Ozone Standard on December 15, 2022, which satisfies the Clean Air Act requirements to meet the 70 ppb 8-hour ozone standard.[21] As described in the Plan, the reductions that would be achieved by the Valley Air District and the ARB strategy (72 percent reduction in NOx emissions by 2037) would ensure expeditious attainment of the 2015 8-hour ozone standard by the 2037 attainment deadline.

The EPA originally classified the Air Basin as serious nonattainment for the 1997 federal 8-hour ozone standard with an attainment date of 2013. On April 30, 2007, the Valley Air District's Governing Board adopted the 2007 Ozone Plan, which contained analysis showing a 2013 attainment target to be infeasible. The 2007 Ozone Plan details the plan for achieving attainment on schedule with an "extreme nonattainment" deadline of 2024. At its adoption of the 2007 Ozone Plan, the Valley Air District also requested a reclassification to extreme nonattainment. The ARB approved the plan in June 2007, and the EPA approved the request for reclassification to extreme nonattainment on April 15, 2010.

The 2007 Ozone Plan contains measures to reduce ozone and PM precursor emissions to bring the Air Basin into attainment with the federal 8-hour ozone standard. The 2007 Ozone Plan calls for a 75 percent reduction of NO_x and a 25 percent reduction of reactive organic gases (ROG). Figure 1 displays the anticipated NO_x reductions attributed in the 2007 Ozone Plan.[22] The plan, with innovative measures and a "dual path" strategy, assures expeditious attainment of the federal 8-hour ozone standard for all Air Basin residents. The Valley Air District Governing Board adopted the 2007 Ozone Plan on April 30, 2007. The ARB approved the plan on June 14, 2007. The 2007 Ozone Plan requires yet to be determined "Advanced Technology" to achieve additional reductions after 2021, in order to attain the standard at all monitoring stations in the Air Basin by 2024 as allowed for areas designated extreme nonattainment by the federal Clean Air Act.

[19] United States Environmental Protection Agency (EPA). 2016. Federal Register. Determination of Attainment of the 1-Hour Ozone National Ambient Air Quality Standard in the San Joaquin Valley Nonattainment Area in California. Website: https://www.federalregister.gov/documents/2016/07/18/2016-16792/determination-of-attainment-of-the-1-hour-ozone-national-ambient-air-quality-standard-in-the-san. Accessed August 9, 2022.

[20] San Joaquin Valley Air Pollution Control District (Valley Air District). 2016. 2016 Plan for the 2008 8-Hour Ozone Standard. June 16. Website: http://valleyair.org/Air_Quality_Plans/Ozone-Plan-2016.htm. Accessed August 9, 2022.

[21] San Joaquin Valley Air Pollution Control District (Valley Air District). 2022. 2022 Plan for the 8-Hour Ozone Standard. Website: https://ww2.valleyair.org/rules-and-planning/air-quality-plans/ozone-plans/2022-ozone-plan-for-the-san-joaquin-valley/

[22] San Joaquin Valley Air Pollution Control District (Valley Air District). 2007. 2007 Ozone Plan. Website: www.valleyair.org/Air_Quality_Plans/AQ_Final_Adopted_Ozone2007.htm. Accessed August 9, 2022.

The Air Basin is designated as an extreme ozone nonattainment area for the EPA's 2008 8-hour ozone standard of 75 ppb. The plan to address this standard was developed for the region to attain EPA's 2008 8-hour ozone standard by December 31, 2031.

The San Joaquin Valley is classified as an "extreme" nonattainment area for the 2015 ozone standard.[23] This nonattainment classification sets forth a requirement to adopt a Reasonably Available Control Technology (RACT) demonstration as a revision to the SIP no later than August 3, 2020. Pursuant to Sections 182(b)(2) and (f) of the federal Clean Air Act (CAA, or "the Act"), areas classified as moderate or above for ozone nonattainment are required to implement RACT requirements for sources that are subject to EPA Control Techniques Guidelines (CTGs) and for "major sources" of volatile organic compounds (VOCs) and NO_x, which are ozone precursors. These RACT requirements ensure that significant sources of emissions in nonattainment areas are controlled to a "reasonable" extent, but not necessarily to the more stringent control levels expected of new or modified major stationary sources. Preparation of the 2020 RACT Demonstration, which was adopted, included a comprehensive evaluation of all NO_x and VOC District rules to ensure that each rule meets or exceeds RACT. The 2020 RACT Demonstration fulfills CAA requirements and demonstrates that all federal RACT requirements continue to be satisfied in the Valley.

State ozone standards do not have an attainment deadline but require implementation of all feasible measures to achieve attainment at the earliest date possible. This is achieved through compliance with the federal deadlines and control measure requirements.

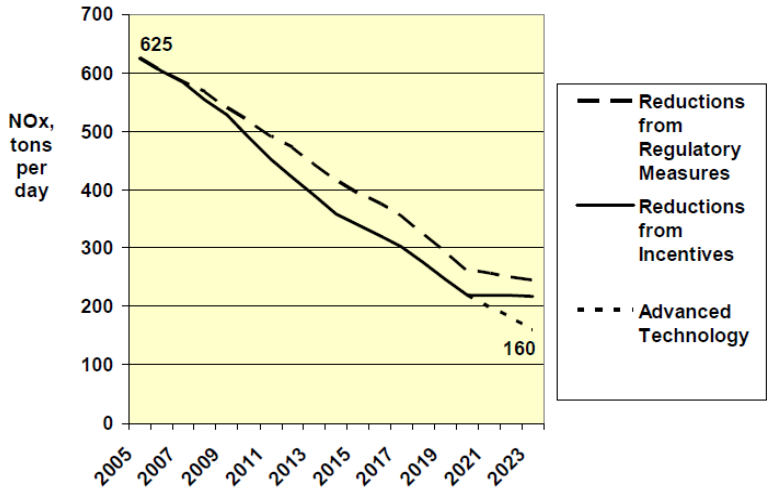


Figure 1: San Joaquin Valley NO_x Emissions Forecast

Particulate Matter Plans

The Air Basin was designated nonattainment of State and federal health-based air quality standards for PM_{10}. The Air Basin is also designated nonattainment of State and federal standards for $PM_{2.5}$.

[23] San Joaquin Valley Air Pollution Control District (Valley Air District). 2020. 2020 Reasonably Available Control Technology (RACT) Demonstration for the 2015 8-Hour Ozone Standard. May 19. Website: http://www.valleyair.org/Workshops/postings/2020/06-18-20_RACT/Final-2020-RACT-Demonstration-for-the-2015-8-Hour-Ozone-Standard.pdf. Accessed August 9, 2022.

To meet CAA requirements for the PM_{10} standard, the Valley Air District adopted a PM_{10} Attainment Demonstration Plan (amended 2003 PM_{10} Plan and 2006 PM_{10} Plan), which had an attainment date of 2010. The Valley Air District adopted the 2007 PM_{10} Maintenance Plan in September 2007 to assure the San Joaquin Valley's continued attainment of the EPA's PM_{10} standard. The EPA designated the San Joaquin Valley as an attainment/maintenance area for PM_{10} on September 25, 2008.

The Valley Air District's most recent 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards develops a strategy to attain the federal health-based 1997, 2006, and 2012 NAAQS for $PM_{2.5}$ as expeditiously as practicable.[24] The Valley Air District's attainment strategy builds upon comprehensive strategies already in place from previously adopted District attainment plans and measures. This plan includes aggressive incentive-based control measures that achieve the massive emissions reductions needed to bring the Valley into attainment.

San Joaquin Valley Air Pollution Control District Rules and Regulations

The Valley Air District rules and regulations that are relevant to this analysis consist of the following:

Rule 4101 **Visible Emissions.** A person shall not discharge into the atmosphere from any single source of emission whatsoever, any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than 3 minutes in any 1 hour, which is (SJVPACD, 2005):

- As darker or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines.
- Of such opacity as to obscure an observer's view to a dress equal to or greater than the smoke described in Section 5.1 of this rule.

Rule 4102 **Nuisance**. The purpose of this rule is to protect the health and safety of the public and it applies to any source operation that emits or may emit air contaminants or other materials.

Rule 4601 **Architectural Coatings**. The purpose of this rule is to limit volatile organic compounds (VOC) emissions from architectural coatings. Emissions are reduced by limits on VOC content and providing requirements on coatings storage, cleanup, and labeling.

Rule 4641 **Cutback, Slow Cure, and Emulsified Asphalt, Paving, and Maintenance Operations**. The purpose of this rule is to limit VOC emissions from asphalt paving and maintenance operations. If asphalt paving will be used, then the paving operations will be subject to Rule 4641.

[24] San Joaquin Valley Air Pollution Control District (Valley Air District). 2018. 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards. November 15. Website: https://www.valleyair.org/pmplans/documents/2018/pm-plan-adopted/2018-Plan-for-the-1997-2006-and-2012-PM2.5-Standards.pdf. Accessed August 9, 2022.

Rule 4901 **Wood-Burning Fireplaces and Wood-Burning Heaters**. The purposes of this rule are to limit emissions of carbon monoxide and particulate matter from wood-burning fireplaces, wood-burning heaters, and outdoor wood-burning devices, and to establish a public education program to reduce wood-burning emissions. All development that includes wood-burning devices are subject to this rule.

Regulation VIII **Fugitive PM_{10} Prohibitions**. Rules 8011-8081 are designed to reduce PM_{10} emissions (predominantly dust/dirt) generated by human activity, including construction and demolition activities, road construction, bulk materials storage, paved and unpaved roads, carryout and trackout, etc. All development projects that involve soil disturbance are subject to at least one provision of the Regulation VIII series of rules.

Rule 9510 **Indirect Source Review**. This rule reduces the impact of NO_x and PM_{10} emissions from growth within the Air Basin. The rule places application and emission reduction requirements on development projects meeting applicability criteria in order to reduce emissions through on-site mitigation, off-site District-administered projects, or a combination of the two.

California Environmental Quality Act

The Valley Air District has three potential roles under CEQA:

1. *Lead Agency*: Responsible for preparing environmental analyses for its own projects (adoption of rules, regulations, or plans) or permit projects filed with the Valley Air District where it has primary approval authority over the project.
2. *Responsible Agency*: The discretionary authority of a Responsible Agency is more limited than a Lead Agency; i.e., having responsibility for mitigating or avoiding only the environmental effects of those parts of the project over which the Responsible Agency has jurisdiction. When the Valley Air District serves as a Responsible Agency, it defers to and relies on the Lead Agency for preparation of environmental documents for land use projects that also have discretionary air quality permits, unless no document is prepared by the Lead Agency and potentially significant impacts related to the permit are possible. The Valley District regularly submits comments on documents prepared by Lead Agencies to ensure that District concerns are addressed.
3. *Commenting Agency*: The Valley Air District reviews and comments on air quality analyses prepared by other public agencies.

The Valley Air District also provides guidance and thresholds for CEQA air quality and GHG analyses for purposes of Lead Agency review and use to the extent each Lead Agency elects, in its discretion, to do so. The result of this guidance, as well as State regulations to control air pollution, is an overall improvement in the Air Basin. In particular, the Valley Air District's 2015 GAMAQI states the following:

1. The District's Air Quality Attainment Plans include measures to promote air quality elements in county and city general plans as one of the primary indirect source programs. The general

plan is the primary long-range planning document used by cities and counties to direct development. Since air districts have no authority over land use decisions, it is up to cities and counties to ensure that their general plans help achieve air quality goals. Section 65302.1 of the California Government Code requires cities and counties in the San Joaquin Valley to amend appropriate elements of their general plans to include data, analysis, comprehensive goals, policies, and feasible implementation strategies to improve air quality in their next housing element revisions.

2. The Air Quality Guidelines for General Plans (AQGGP), adopted by the District in 1994 and amended in 2005, is a guidance document containing goals and policy examples that cities and counties may want to incorporate into their general plans to satisfy Section 65302.1. When adopted in a general plan and implemented, the suggestions in the AQGGP can reduce vehicle trips and miles traveled and improve air quality. The specific suggestions in the AQGGP are voluntary. The District strongly encourages cities and counties to use their land use and transportation planning authority to help achieve air quality goals by adopting the suggested policies and programs.

2.4.3 - Local

City of Visalia General Plan

The City of Visalia (City) is the local government with the authority over land use decisions for purposes of the proposed project. The City adopted an updated General Plan on October 14, 2014.[25] The relevant air quality goals, objectives, and policies from the City's General Plan for purposes of this analysis are listed below.

Chapter 7: Air Quality and Greenhouse Gases

Objectives

AQ-O-1 Coordinate air quality planning efforts with other local, regional and State agencies.

AQ-O-2 Strive to improve air quality by implementing emissions reduction efforts targeting mobile sources, stationary sources and construction- related sources.

Policies

AQ-P-1 Amend the Zoning Ordinance to prohibit locating new "sensitive receptor" uses—hospitals, residential care facilities and child care facilities—within 500 feet of a limited access State Highway (SR-99 and SR-198), except as provided by approved master plans.

AQ-P-2 Require use of Best Management Practices (BMPs) to reduce particulate emission as a condition of approval for all subdivisions, development plans and grading permits, in conformance with the San Joaquin Valley Air Pollution Control District Fugitive.

[25] City of Visalia. 2014. City of Visalia General Plan. October. Website: https://www.visalia.city/depts/community_development/planning/gp.asp. Accessed August 9, 2022.

AQ-P-3 Support implementation of the San Joaquin Valley Air Pollution Control District's regulations on the use of wood-burning fireplaces, as well as their regulations for the installation of EPA-certified wood heaters or approved wood-burning appliances in new residential development and a "No Burn" policy on days when the air quality is poor.

AQ-P-4 Support the San Joaquin Valley Air Pollution Control District's "change-out" program, which provides incentives to help homeowners replace old word-burning fireplaces with EPA-certified non-wood-burning appliances.

AQ-P-5 When asbestos has been identified in the preliminary soils report, require all new development and public works projects to comply with all provisions of State and regional ATCM regulations for control of airborne asbestos emissions relating to construction, road maintenance, and grading activities.

AQ-P-6 Amend the Street Tree Ordinance to promote use of plants and trees that are efficient pollutant absorbers.

AQ-P-7 Be an active partner with the Air District in its "Spare the Air" program. Encourage businesses and residents to avoid pollution-producing activities such as the use of fireplaces and wood stoves, charcoal lighter fluid, pesticides, aerosol products, oil-based paints, and automobiles and other gasoline engines on days when high ozone levels are expected, and promote low emission vehicles and alternatives to driving.

AQ-P-8 Update the Zoning Ordinance to strictly limit the development of drive-through facilities, only allowing them in auto-oriented areas and prohibiting them in Downtown and East Downtown.

AQ-P-9 Continue to mitigate short-term construction impacts and long-term stationary source impacts on air quality on a case-by-case basis and continue to assess air quality impacts through environmental review. Require developers to implement Best Management Practices (BMPs) to reduce air pollutant emissions associated with the construction and operation of development projects.

BMPs include Transportation Demand Management strategies for large development projects such as:

- Providing bicycle access and parking facilities;
- Providing preferential parking for high-occupancy vehicles, carpools, or alternative fuels vehicles;
- Establishing telecommuting programs or satellite work centers;
- Allowing alternative work schedules;
- Subsidizing public transit costs for employee;
- Scheduling Deliveries at off-peak traffic periods; and
- Providing recharge stations for plug-in electric vehicles (PEVs).

AQ-P-10 Develop public information regarding high- and low-pollen producing landscape species, to be made available at City Hall and other relevant locations throughout the City. Work with Chamber of Commerce, local landscape architects, nursery contractors, and arborists to promote landscaping with low-pollen plants.

AQ-P-11 Continue to work in conjunction with the San Joaquin Valley Air Pollution Control District and others to put in place additional Transportation Control Measures that will reduce vehicle travel and improve air quality and to implement Air Quality Plans.

SECTION 3: CLIMATE CHANGE SETTING

3.1 - Climate Change

Climate change is a change in the average weather of the Earth that is measured by alterations in wind patterns, storms, precipitation, and temperature. These changes are assessed using historical records of temperature changes occurring in the past, such as during previous ice ages. Many of the concerns regarding climate change use this data to extrapolate a level of statistical significance specifically focusing on temperature records from the last 150 years (the Industrial Age) that differ from previous climate changes in rate and magnitude.

The United Nations Intergovernmental Panel on Climate Change (IPCC) constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. In its Fourth Assessment Report, the IPCC predicted that the global mean temperature changes from 1990 to 2100, given six scenarios, could range from 1.1°C (degrees Celsius) to 6.4°C. Regardless of analytical methodology, global average temperatures and sea levels are expected to rise under all scenarios.[26] The report also concluded that "[w]arming of the climate system is unequivocal," and that "[m]ost of the observed increase in global average temperatures since the mid-20th century is very likely due to the observed increase in anthropogenic greenhouse gas concentrations."

An individual project cannot generate enough GHG emissions to effect a discernible change in global climate. However, every development project participates in the potential for global climate change by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on global climate change.

3.1.1 - Consequences of Climate Change in California

In California, climate change may result in consequences such as the following.[27]

- **A reduction in the quality and supply of water from the Sierra snowpack.** If heat-trapping emissions continue unabated, more precipitation will fall as rain instead of snow, and the snow that does fall will melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90 percent. This can lead to challenges in securing adequate water supplies. It can also lead to a potential reduction in hydropower.
- **Increased risk of large wildfires.** If rain increases as temperatures rise, wildfires in the grasslands and chaparral ecosystems of Southern California are estimated to increase by approximately 30 percent toward the end of the 21st century because more winter rain will stimulate the growth of more plant "fuel" available to burn in the fall. In contrast, a hotter,

[26] Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Website: www.ipcc.ch /publications_and_data/ar4/wg1/en/contents.html.

[27] Moser et al. 2009. Moser, Susie, Guido Franco, Sarah Pittiglio, Wendy Chou, Dan Cayan. 2009. The Future Is Now: An Update on Climate Change Science Impacts and Response Options for California. California Energy Commission, PIER Energy-Related Environmental Research Program. CEC-500-2008-071. Website: https://www.adaptationclearinghouse.org/resources/the-future-is-now-an-update-on-climate-change-science-impacts-and-response-options-for-california.html. Accessed August 9, 2022.

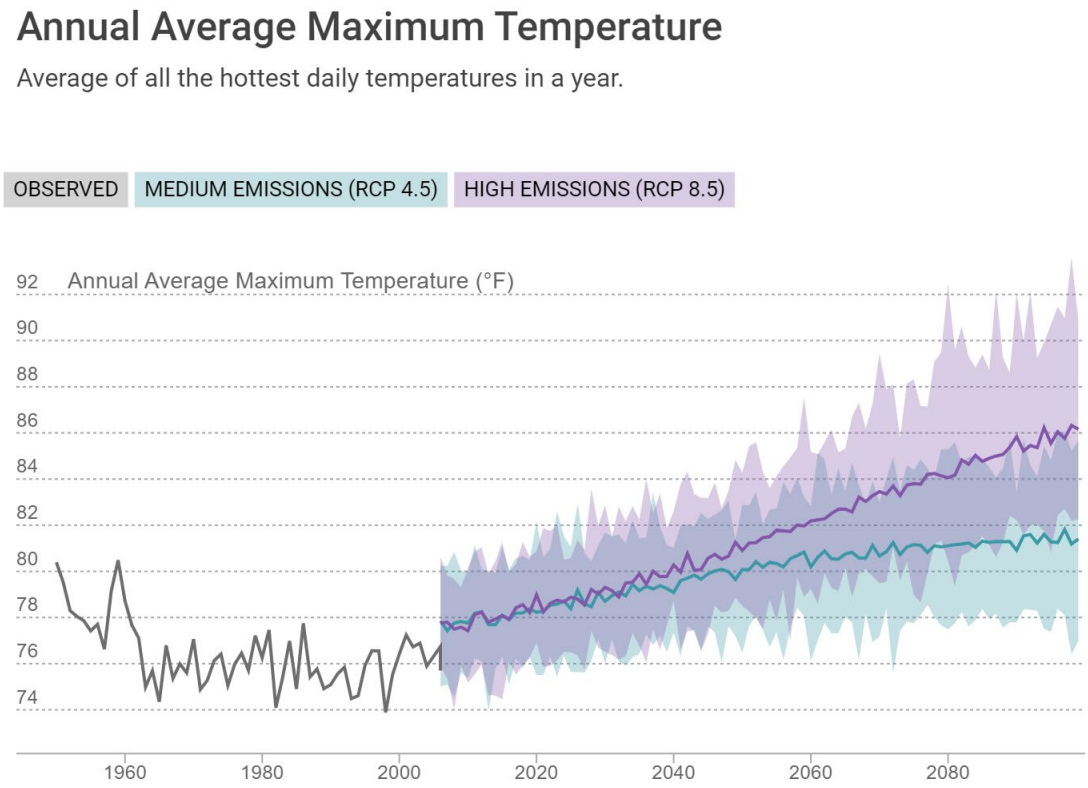
drier climate could promote up to 90 percent more Northern California fires by the end of the century by drying out and increasing the flammability of forest vegetation.

- **Reductions in the quality and quantity of certain agricultural products.** The crops and products likely to be adversely affected include wine grapes, fruit, nuts, and milk.
- **Exacerbation of air quality problems.** If temperatures rise to the medium warming range, there could be 75 to 85 percent more days with weather conducive to ozone formation in Los Angeles and the San Joaquin Valley, relative to today's conditions. This is more than twice the increase expected if rising temperatures remain in the lower warming range. This increase in air quality problems could result in an increase in asthma and other health-related problems.
- **A rise in sea levels resulting in the displacement of coastal businesses and residences.** During the past century, sea levels along California's coast have risen about seven inches. If emissions continue unabated and temperatures rise into the higher anticipated warming range, sea level is expected to rise an additional 22 to 35 inches by the end of the century. Elevations of this magnitude would inundate coastal areas with salt water, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats.
- **An increase temperature and extreme weather events.** Climate change is expected to lead to increases in the frequency, intensity, and duration of extreme heat events and heat waves in California. More heat waves can exacerbate chronic disease or heat-related illness.
- **A decrease in the health and productivity of California's forests.** Climate change can cause an increase in wildfires, an enhanced insect population, and establishment of non-native species.

City of Visalia Area

Figure 2 displays a chart of measured historical and projected annual average temperatures in the Visalia area. As shown in the figure, temperatures are expected to rise in the medium and high GHG emissions scenarios. The results indicate that temperatures are predicted to increase by 3.8 °F under the low emissions scenario and 4.8°F under the high emissions scenario by the midcentury (2035-2064).[28]

[28] Cal-Adapt. 2022. Local Climate Snapshots. Website: https://cal-adapt.org/tools/local-climate-change-snapshot/. Accessed August 10, 2022.



Source: Cal-Adapt. 2022. Local Climate Snapshots. Website: https://cal-adapt.org/tools/local-climate-change-snapshot/. Accessed August 10, 2022.

Figure 2: Observed and Projected Temperatures for Climate Change in the Project Vicinity

3.2 - Greenhouse Gases

Gases that trap heat in the atmosphere are referred to as GHGs. The effect is analogous to the way a greenhouse retains heat. Common GHGs include water vapor, carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), chlorofluorocarbons, hydrofluorocarbons (HFC), perfluorocarbons (PFC), sulfur hexafluoride (SF_6), ozone, and aerosols. Natural processes and human activities emit GHGs. The presence of GHGs in the atmosphere affects the earth's temperature. It is believed that emissions from human activities, such as electricity production and vehicle use, have elevated the concentration of these gases in the atmosphere beyond the level of naturally occurring concentrations.

Individual GHG compounds have varying global warming potential and atmospheric lifetimes. The global warming potential is the potential of a gas or aerosol to trap heat in the atmosphere. To describe how much global warming a given type and amount of GHG may cause, the CO_2 equivalent (CO_2e) is used. The calculation of the CO_2 equivalent is a consistent methodology for comparing GHG emissions since it normalizes various GHG emissions to a consistent reference gas, CO_2. For example, CH_4's warming potential of 25 indicates that CH_4 has 25 times greater warming effect than CO_2 on a molecule-per-molecule basis. A CO_2 equivalent is the mass emissions of an individual GHG multiplied by its global warming potential. As described in Table 6, the GHGs defined by Assembly Bill (AB) 32 (see the Climate Change Regulatory Environment section for a description) include CO_2, CH_4, N_2O,

HFC, PFC, and SF_6. A seventh GHG, nitrogen trifluoride (NF_3), was added to Health and Safety Code Section 38505(g)(7) as a GHG of concern.

Table 6: Description of Greenhouse Gases

Greenhouse Gas	Description and Physical Properties	Sources
Nitrous oxide	Nitrous oxide (laughing gas) is a colorless GHG. It has a lifetime of 114 years. Its global warming potential is 298.	Microbial processes in soil and water, fuel combustion, and industrial processes.
CH_4	Methane is a flammable gas and is the main component of natural gas. It has a lifetime of 12 years. Its global warming potential is 25.	Methane is extracted from geological deposits (natural gas fields). Other sources are landfills, fermentation of manure, and decay of organic matter.
CO_2	CO_2 is an odorless, colorless, natural GHG. CO_2's global warming potential is 1. The concentration in 2005 was 379 parts per million (ppm), which is an increase of about 1.4 ppm per year since 1960.	Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood.
HFCs	HFCs are a group of GHGs containing carbon, chlorine, and at least one hydrogen atom. Global warming potentials range from 140 to 11,700.	HFCs are synthetic man-made chemicals used as a substitute for chlorofluorocarbons in applications such as automobile air conditioners and refrigerants.
PFCs	PFCs have stable molecular structures and only break down by ultraviolet rays about 60 kilometers above Earth's surface. Because of this, they have long lifetimes, between 10,000 and 50,000 years. Global warming potentials range from 6,500 to 9,200.	Two main sources of PFCs are primary aluminum production and semiconductor manufacturing.
SF_6	SF_6 is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. It has a high global warming potential, 23,900.	This gas is man-made and used for insulation in electric power transmission equipment in the magnesium industry, in semiconductor manufacturing, and as a tracer gas.
Nitrogen trifluoride	Nitrogen trifluoride (NF_3) was added to Health and Safety Code Section 38505(g)(7) as a GHG of concern. It has a high global warming potential of 17,200.	This gas is used in electronics manufacture for semiconductors and liquid crystal displays.

Sources: Compiled from a variety of sources, primarily
Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Website: www.ipcc.ch/publications_and_data/ar4/wg1/en/contents.html. Accessed August 10, 2022.

Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: Synthesis Report. Contribution of Working Groups I, II and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, Pachauri, R.K. and Reisinger, A. (eds.)]. IPCC, Geneva, Switzerland. Website: https://www.ipcc.ch/report/ar4/syr/. Accessed August 10, 2022.

The State of California has begun the process of addressing pollutants referred to as short-lived climate pollutants. The short-lived climate pollutants include three main components: black carbon, fluorinated gases, and methane. The ARB approved the Short-Lived Climate Pollutant Reduction Strategy in March 2017. The ARB has completed an emission inventory of these pollutants, identified research needs, identified existing and potential new control measures that offer co-benefits, and coordinated with other State agencies and districts to develop measures.[29] Sources of black carbon are already regulated by the ARB, and air district criteria pollutant and toxic regulations that control $PM_{2.5}$ from diesel engines and other combustion sources.[30] Additional controls on the sources of black carbon specifically for their GHG impacts beyond those required for toxic and fine particulates are not likely to be needed.

Human Health Effects of GHG Emissions

GHG emissions from development projects would not result in concentrations that would directly impact public health. However, the cumulative effects of GHG emissions on climate change have the potential to cause adverse effects to human health.

The United States Global Change Research Program, in its report, Global Climate Change Impacts in the United States,[31] has analyzed the degree to which impacts on human health are expected to impact the United States.

Potential effects of climate change on public health include:

- **Direct Temperature Effects:** Climate change may directly affect human health through increases in average temperatures, which are predicted to increase the incidence of heat waves and hot extremes.
- **Extreme Events:** Climate change may affect the frequency and severity of extreme weather events, such as hurricanes and extreme heat and floods, which can be destructive to human health and well-being.
- **Climate-Sensitive Diseases:** Climate change may increase the risk of some infectious diseases, particularly those diseases that appear in warm areas and are spread by mosquitoes and other insects, such as malaria, dengue fever, yellow fever, and encephalitis.
- **Air Quality:** Respiratory disorders may be exacerbated by warming-induced increases in the frequency of smog (ground level ozone) events and particulate air pollution.[32]

Although there could be health effects resulting from changes in the climate and the consequences that can occur, inhalation of GHGs at levels currently in the atmosphere would not result in adverse health effects, with the exception of ozone and aerosols (PM). At very high indoor concentrations

[29] California Air Resources Board (ARB). 2016. Proposed Short-Lived Climate Pollutant Reduction Strategy. Website: http://www.arb.ca.gov/cc/shortlived/shortlived.htm. Accessed August 10, 2022.
[30] California Air Resources Board (ARB). 2015. Low Carbon Fuel Standard Regulation. Website: http://www.arb.ca.gov/regact/2015/lcfs2015/lcfs2015.htm. Accessed August 10, 2022.
[31] The United States Global Change Research Program. Global Climate Change Impacts in the United States. 2009. Website: https://downloads.globalchange.gov/usimpacts/pdfs/climate-impacts-report.pdf. Accessed August 10, 2022.
[32] Ibid.

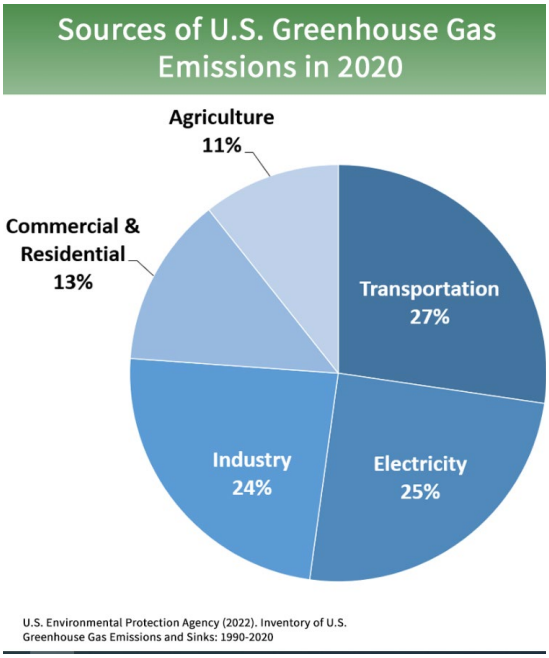
(not at levels existing outside), CO, CH_4, SF_6, and some chlorofluorocarbons can cause suffocation as the gases can displace oxygen.[33]

3.2.1 - Emissions Inventories

United States GHG Inventory

In 2020, United States GHG emissions totaled 5,222 million metric tons (MMT) CO_2e. Figure 3 presents 2020 United States GHG emissions by economic sector. Emissions decreased from 2019 to 2020 by 11 percent due to a 13 percent decrease in transportation emissions driven by decreased demand as a result of the ongoing COVID-19 pandemic. Electric power sector emissions also decreased 10 percent, reflecting both a slight decrease in demand from the COVID-19 pandemic and a continued shift from coal to less carbon intensive natural gas and renewables.

Since 1990, United States emissions have increased at an average annual rate of 0.1 percent. Greenhouse gas (GHG) emissions in 2020 (after accounting for sequestration from the land sector) were 21 percent below 2005 levels.[34]



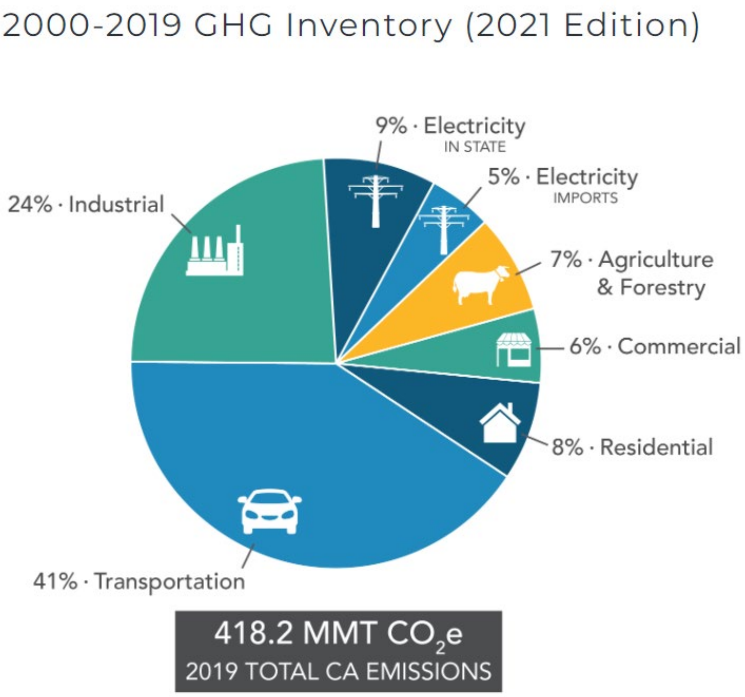
Source: United States Environmental Protection Agency (EPA). 2022. Inventory of U.S. Greenhouse Gas Emissions and Sinks. April. Website: https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks. Accessed August 10, 2022.
Note: Emissions shown do not include carbon sinks such as change in land uses and forestry.

Figure 3: 2018 U.S. Greenhouse Gas Emissions by Economic Sector

[33] Centers for Disease Control and Prevention (CDC). 2010. Department of Health and Human Services, the National Institute for Occupational Safety and Health. Carbon Dioxide. Website: www.cdc.gov/niosh/npg/npgd0103.html. Accessed August 10, 2022.
[34] United States Environmental Protection Agency (EPA). 2020. Inventory of U.S. Greenhouse Gas Emissions and Sinks. April. Website: https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks. Accessed August 10, 2022.

California GHG Inventory

As the second largest emitter of GHG emissions in the U.S., California contributes a large quantity (418.2 MMT CO_2e in 2019) of GHG emissions to the atmosphere. Emissions of CO_2 are byproducts of fossil fuel combustion and are attributable in large part to human activities associated with transportation, industry/manufacturing, electricity and natural gas consumption, and agriculture. In California, the transportation sector is the largest emitter at 41 percent of GHG emissions, followed by industry/manufacturing at 24 percent of GHG emissions (Figure 4).[35]



Source: California Air Resources Board (ARB). 2022. Current California GHG Emission Inventory Data. Website: https://ww2.arb.ca.gov/ghg-inventory-data. Accessed August 10, 2022.

Figure 4: California GHG Emissions by Sector

City of Visalia

The baseline inventory year for the City of Visalia's Climate Action Plan (CAP) is 2005.[36] The City baseline inventory involves two components: a community sector inventory (i.e., the full geographic area of City's jurisdiction) and a separate inventory of the municipal sector, which includes government owned and operated facilities and activities. Table 7 provides the baseline inventory.

[35] California Air Resources Board (ARB). 2022. Current California GHG Emission Inventory Data. Website: https://ww2.arb.ca.gov/ghg-inventory-data. Accessed August 10, 2022.

[36] Strategic Energy Innovations (SEI). 2013. City of Visalia Climate Action Plan. Website: https://www.visalia.city/civicax/filebank/blobdload.aspx?blobid=28939. Accessed February 7, 2023.

Table 7: City of Visalia 2005 Community GHG Emissions Baseline Inventory by Sector

Sector	MT CO_2e/year	Percentage of Total
Transportation	490,063	55%
Commercial/Industrial	208,342	23%
Residential	202,533	22%
Solid Waste[2]	-7,862[3]	-1%
Total	3,745,115	100%

Notes:
[1] Emissions from municipal operations only
[2] For the solid waste sector, CO2 and CH4 emissions could not be separated because the EPA WARM software utilized to calculate the emissions only provides results in CO2e.
[3] The solid waste CO2e figure denotes a net GHG emissions figure resulting from landfilled solid waste, composting, and recycling activities in 2005. The negative figure is a result of the GHG emissions avoided specifically from composting and recycling efforts implemented by the City in 2005.
Source: Strategic Energy Innovations (SEI). 2013. City of Visalia Climate Action Plan (CAP). December.

The City's community activities emitted approximately 906,337 metric tons of CO2e in 2005**.** The transportation sector was the most significant of all community sectors, comprising 55 percent, followed by the commercial/industrial sector (23 percent), and then closely by the residential sector (22 percent). In addition, the City's municipal operations emitted approximately 16,446 metric tons of CO2e in 2005.

3.3 - Regulatory Setting

3.3.1 - Federal Laws and Regulations

The following are actions regarding the federal government, GHGs, and fuel efficiency that are relevant in this analysis.

GHG Endangerment

Massachusetts v. EPA (Supreme Court Case 05-1120) was argued before the United States Supreme Court on November 29, 2006, in which it was petitioned that the EPA regulate four GHGs, including CO_2, under Section 202(a)(1) of the CAA. A decision was made on April 2, 2007, in which the Supreme Court found that GHGs are air pollutants covered by the CAA. The Court held that the Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision.

Clean Vehicles

Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light-duty trucks. The law has become more stringent over time. On May 19, 2009, former President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the United States. On April 1, 2010, the EPA and the Department of

Transportation's National Highway Safety Administration announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the United States.

The first phase of the national program applied to passenger cars, light-duty trucks, and medium-duty passenger vehicles, covering model years 2012 through 2016. The new standards for model years 2017 through 2025 applied to passenger cars, light-duty trucks, and medium-duty passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO_2 in model year 2025, which is equivalent to 54.5 miles per gallon (mpg) if achieved exclusively through fuel economy improvements.

The EPA and the United States Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks and buses on September 15, 2011, which became effective November 14, 2011. For combination tractors, the agencies proposed engine and vehicle standards that began in the 2014 model year and would achieve up to a 20 percent reduction in CO_2 emissions and fuel consumption by the 2018 model year. For heavy-duty pickup trucks and vans, the agencies proposed separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and would achieve up to a 10 percent reduction for gasoline vehicles, and a 15 percent reduction for diesel vehicles by 2018 model year (12 and 17 percent respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10 percent reduction in fuel consumption and CO_2 emissions from the 2014 to 2018 model years.

The State of California received a waiver from the EPA to have separate, stricter Corporate Average Fuel Economy standards. Although global climate change did not become an international concern until the 1980s, efforts to reduce energy consumption began in California in response to the oil crisis in the 1970s, resulting in the incidental reduction of GHG emissions. To manage the State's energy needs and promote energy efficiency, AB 1575 created the California Energy Commission (CEC) in 1975. It should be noted that the EPA recently reinstated California's waiver for its GHG and ZEV mandates that were more stringent than other federal regulations implementing the CAA.[37] In September 2020, Governor Gavin Newsom issued Executive Order N-79-20, which requires sales of all new passenger vehicles to be zero-emission by 2035 and additional measures to eliminate harmful emissions from the transportation sector.

Consolidated Appropriations Act (Mandatory GHG Reporting)

On September 22, 2009, the EPA issued the Final Mandatory Reporting of Greenhouse Gases Rule, which became effective January 1, 2010. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions are required to submit annual reports to the EPA.

[37] Harvard Law School. 2022. EPA's Revived Clean Cars Waiver for California. April. Website: https://eelp.law.harvard.edu/2022/04/epas-revived-clean-cars-waiver-for-california/. Accessed February 7, 2023.

New Source Review

The EPA issued a final rule on May 13, 2010, that established thresholds for GHGs that define when permits under the New Source Review Prevention of Significant Deterioration and Title V Operating Permit programs are required for new and existing industrial facilities.

The EPA estimates that facilities responsible for nearly 70 percent of the national GHG emissions from stationary sources will be subject to permitting requirements under this rule. This includes the nation's largest GHG emitters—power plants, refineries, and cement production facilities.

Standards of Performance for Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units

As required by a settlement agreement, the EPA proposed new performance standards for CO_2 emissions for new, affected, fossil fuel-fired electric utility generating units on March 27, 2012. New sources greater than 25 megawatts would be required to meet an output-based standard of 1,000 pounds of CO_2 per megawatt-hour (MWh) based on the performance of widely used natural gas combined cycle technology.

Cap-and-Trade

Cap-and-trade refers to a policy tool where emissions are limited to a certain amount and can be traded, or provides flexibility on how the emitter can comply.

The Western Climate Initiative partner jurisdictions developed a comprehensive initiative to reduce regional GHG emissions to 15 percent below 2005 levels by 2020. The partners are California, British Columbia, Manitoba, Ontario, and Québec. Currently only California and Québec are participating in the Cap-and-Trade Program.[38]

3.3.2 - California

Legislative Actions to Reduce GHGs

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation such as the landmark AB 32 California Global Warming Solutions Act of 2006 was specifically enacted to address GHG emissions. Other legislation, such as the Title 24 and Title 20 energy standards, were originally adopted for other purposes, such as energy and water conservation, but also provide GHG reductions. This section describes the major provisions of the legislation.

Assembly Bill 1493 Pavley Regulations and Fuel Efficiency Standards

California AB 1493, enacted on July 22, 2002, required the ARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light-duty trucks. It should be noted that the

[38] Center for Climate and Energy Solutions (C2ES). 2015. Cap-and-Trade Basics. Website: https://www.c2es.org/content/cap-and-trade-basics/. Accessed February 7, 2022.

EPA reinstated California's waiver for its GHG and ZEV mandates that were more stringent than other federal regulations implementing the CAA.[39]

The second phase of the implementation for the Pavley Bill was incorporated into Amendments to the Low emission Vehicle Program referred to as LEV III or the Advanced Clean Cars program. The Advanced Clean Car program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for model years 2017 through 2025. The regulation is anticipated to reduce GHGs from new cars by 34 percent from 2016 levels by 2025. The new rules will reduce pollutants from gasoline and diesel-powered cars and will deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid electric vehicles and hydrogen fuel cell cars.

Assembly Bill 32

The California State Legislature enacted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires that GHGs emitted in California be reduced to 1990 levels by the year 2020.

The ARB is the State agency charged with monitoring and regulating sources of GHGs. The ARB approved the 1990 GHG emissions level of 427 MMT CO_2e on December 6, 2007.[40] Therefore, to meet the State's target, emissions generated in California in 2020 were required to be equal to or less than 427 MMT CO_2e. Emissions in 2020 in a Business as Usual (BAU) scenario were estimated to be 596 MMT CO_2e, which do not account for reductions from AB 32 regulations.[41] At that rate, a 28 percent reduction was required to achieve the 427 MMT CO_2e 1990 inventory. In October 2010, the ARB prepared an updated 2020 forecast to account for the effects of the 2008 recession and slower forecasted growth. Under the updated forecast, a 21.7 percent reduction from BAU is required to achieve 1990 levels.[42]

California Air Resources Board Scoping Plan

The ARB Climate Change Scoping Plan (Scoping Plan) contains measures designed to reduce the State's emissions to 1990 levels by the year 2020 to comply with AB 32.[43] The Scoping Plan identifies recommended measures for multiple GHG emission sectors and the associated emission reductions needed to achieve the year 2020 emissions target—each sector has a different emission reduction target. Most of the measures target the transportation and electricity sectors. As stated in the Scoping Plan, the key elements of the strategy for achieving the 2020 GHG target include:

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;

[39] United States Environmental Protection Agency (EPA). 2022. WHAT THEY ARE SAYING: EPA Restoration of California Waiver Will Support State Climate Action, Improve Air Quality, and Advance our Electric Vehicle Future. March 11. Website: https://www.epa.gov/newsreleases/what-they-are-saying-epa-restoration-california-waiver-will-support-state-climate. Accessed August 10, 2022.

[40] California Air Resources Board (ARB). 2007. Staff Report. California 1990 Greenhouse Gas Level and 2020 Emissions Limit. November 16, 2007. Website: www.arb.ca.gov/cc/inventory/pubs/reports/staff_report_1990_level.pdf. Accessed August 10, 2022.

[41] California Air Resources Board (ARB). 2008. (includes edits made in 2009) Climate Change Scoping Plan, a framework for change. Website: http://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed August 10, 2022.

[42] California Air Resources Board (ARB). 2010. 2020 Greenhouse Gas Emissions Projection and BAU Scenario Emissions Estimate. Website: https://ww2.arb.ca.gov/ghg-bau. Accessed August 10, 2022.

[43] California Air Resources Board (ARB). 2008. (includes edits made in 2009) Climate Change Scoping Plan, a framework for change. Website: http://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed August 10, 2022.

- Achieving a Statewide renewables energy mix of 33 percent;
- Developing a California Cap-and-Trade Program that links with other Western Climate Initiative partner programs to create a regional market system;
- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets;
- Adopting and implementing measures pursuant to existing State laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS); and
- Creating targeted fees, including a public goods charge on water use, fees on high global warming potential gases, and a fee to fund the administrative costs of the State's long-term commitment to AB 32 implementation.

In addition, the Scoping Plan differentiates between "capped" and "uncapped" strategies. Capped strategies are subject to the proposed Cap-and-Trade Program. Implementation of the capped strategies was calculated to achieve a sufficient amount of reductions by 2020 to achieve the emission target contained in AB 32. Uncapped strategies that would not be subject to the cap-and-trade emissions caps and requirements were provided as a margin of safety by accounting for additional GHG emission reductions.[44]The ARB approved the First Update to the Scoping Plan on May 22, 2014. The First Update builds upon the Initial Scoping Plan with new strategies and recommendations.[45]

The most recent version of the ARB's Scoping Plan, the 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan), addresses the SB 32 targets and was adopted on December 15, 2022. It provides a detailed sector-by-sector guide to address climate change by cutting GHG emissions by 85 percent and achieving carbon neutrality in 2045, with the main focus of emission reductions efforts being the transportation and energy sectors.

The elements of the framework set forth in the 2022 Scoping Plan proposed to achieve the emission reduction targets are as follows:

- Transportation
  - Achieve 100 percent ZEV sales of light-duty vehicles by 2035 and medium heavy-duty vehicles by 2040.
  - Achieve a 20 percent zero-emission target for the aviation sector.
  - Prioritize and increase funding for clean transportation equity programs.
  - Accelerate the reduction and replacement of fossil fuel production and consumption in California.
  - Increase the stringency and scope of the LCFS.

[44] California Air Resources Board (ARB). 2008 (includes edits made in 2009). Climate Change Scoping Plan, a framework for change. Website: http://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed August 10, 2022

[45] California Air Resources Board (ARB). 2014. First Update to the Climate Change Scoping Plan. Website: http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm. Accessed August 10, 2022.

  - Achieve a per capita VMT reduction of at least 25 percent below 2019 levels by 2030 and 30 percent below by 2045.

- Clean Electricity Grid
  - Per SB 350, double Statewide energy efficiency savings by 2030.
  - Use long-term planning processes to support grid reliability and expansion of renewable and zero-carbon development.
  - Per SB 100 and 1020, achieve 90 percent, 95 percent, and 100 percent renewable and zero-carbon retail sales by 2035, 2040, and 2045, respectively.
- Sustainable Manufacturing and Buildings
  - Maximize air quality benefits using the best available control technologies for stationary sources in communities most in need.
  - Implement SB 905.
  - Develop a net-zero cement strategy to meet SB 956 targets for the GHG intensity of cement use.
  - Leverage energy efficiency and low carbon hydrogen programs.
  - Prioritize most vulnerable residents with the majority of funds in the new $922 million Equitable Building Decarbonization program.
  - Achieve three million all-electric and electric-ready homes by 2030 and seven million by 2035 with six million heat pumps installed by 2030.
  - Adopt a zero-emission standard for new space and water heaters sold in California beginning in 2030.
  - Implement biomethane procurement targets for investor-owned utilities as specified in SB 1440.
- Carbon Dioxide Removal and Capture
  - Implement SB 905.
  - Achieve the 85 percent reduction in anthropogenic sources below 1990 levels per AB 1279 by incorporating Carbon Capture and Storage (CCS) into sectors and programs beyond transportation.
  - Evaluate and propose the role for CCS in cement decarbonization and as part of hydrogen peroxide pathways.
  - Explore carbon capture application for zero-carbon power for reliability needs per SB 100.
- Short-Lived Climate Pollutants (Non-Combustion Gases)
  - Install anaerobic digesters to maximize air and water quality protection, maximize biomethane capture, and direct biomethane to specific sectors.
  - Increase alternative manure management projects.
  - Expand markets for products made from organic waste.
  - Pursuant to SB 1137, develop leak detection and repair plans for facilities in health protection zones, implement emission detection system standards, and provide public access to emissions data.
  - Convert large HFC emitters to the lowest practical global warming potential (GWP) technologies.

- Natural and Working Lands
  - Implement AB 1757 and SB 27.
  - Implement the Climate Smart Strategy.
  - Accelerate the pace and scale of climate smart forest management to at least 2.3 million acres annually by 2025.
  - Accelerate the pace and scale of healthy soils practices to 80,000 acres annually by 2025, conserve at least 8,000 acres of annual crops annually, and increase organic agriculture to 20 percent of all cultivated acres by 2045.
  - Restore 60,000 acres of Delta wetlands annually by 2045.
  - Increase urban forestry investment annually by 200 percent, relative to business as usual.

Senate Bill 375—the Sustainable Communities and Climate Protection Act of 2008

Senate Bill (SB) 375 was signed into law on September 30, 2008. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40 percent of the total GHG emissions in California. SB 375 does the following:

1. Requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions.
2. Aligns planning for transportation and housing.
3. Creates specified incentives for the implementation of the strategies.

Senate Bill 32 and the 2017 Climate Change Scoping Plan Update

The Governor signed SB 32 in September 2016, giving the ARB the statutory responsibility to include the 2030 target previously contained in Executive Order B-30-15 in the 2017 Scoping Plan Update. SB 32 states: "In adopting rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions authorized by this division, the State [air resources] board shall ensure that Statewide greenhouse gas emissions are reduced to at least 40 percent below the Statewide greenhouse gas emissions limit no later than December 31, 2030." The 2017 Climate Change Scoping Plan Update addressing the SB 32 targets was adopted on December 14, 2017. The major elements of the framework proposed to achieve the 2030 target are as follows:

1. SB 350
   - Achieve 50 percent Renewables Portfolio Standard (RPS) by 2030.
   - Doubling of energy efficiency savings by 2030.
2. Low Carbon Fuel Standard
   - Increased stringency (reducing carbon intensity 18 percent by 2030, up from 10 percent in 2020).
3. Mobile Source Strategy (Cleaner Technology and Fuels Scenario)
   - Maintaining existing GHG standards for light- and heavy-duty vehicles.
   - Put 4.2 million ZEVs on the roads.
   - Increase ZEV buses, delivery and other trucks.

4. Sustainable Freight Action Plan
    - Improve freight system efficiency.
    - Maximize use of near-zero-emission vehicles and equipment powered by renewable energy.
    - Deploy over 100,000 zero-emission trucks and equipment by 2030.
5. Short-Lived Climate Pollutant Reduction Strategy
    - Reduce emissions of methane and HFCs 40 percent below 2013 levels by 2030.
    - Reduce emissions of black carbon 50 percent below 2013 levels by 2030.
6. SB 375 Sustainable Communities Strategies
    - Increased stringency of 2035 targets.
7. Post-2020 Cap-and-Trade Program
    - Declining caps, continued linkage with Québec, and linkage to Ontario, Canada.
    - The ARB will look for opportunities to strengthen the program to support more air quality co-benefits, including specific program design elements. In fall 2016, ARB staff described potential future amendments including reducing the offset usage limit, redesigning the allocation strategy to reduce free allocation to support increased technology and energy investment at covered entities and reducing allocation if the covered entity increases criteria or toxics emissions over some baseline.
8. 20 percent reduction in GHG emissions from the refinery sector.
9. By 2018, develop Integrated Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Senate Bill 1368—Emission Performance Standards

In 2006, the State Legislature adopted SB 1368, which was subsequently signed into law by the Governor. SB 1368 directs the California Public Utilities Commission to adopt a performance standard for GHG emissions for the future power purchases of California utilities. SB 1368 seeks to limit carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. The California Public Utilities Commission adopted the regulations required by SB 1368 on August 29, 2007.

Senate Bill 1078—Renewable Electricity Standards

On September 12, 2002, former Governor Gray Davis signed SB 1078, requiring California to generate 20 percent of its electricity from renewable energy by 2017. SB 107 changed the due date to 2010 instead of 2017. On November 17, 2008, former Governor Arnold Schwarzenegger signed Executive Order S-14-08, which established an RPS target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. Former Governor Schwarzenegger also directed the ARB (Executive Order S-21-09) to adopt a regulation by July 31, 2010, requiring the State's load serving entities to meet a 33 percent renewable energy target by 2020. The ARB approved the Renewable Electricity Standard on September 23, 2010 by Resolution 10-23.

Senate Bill 350—Clean Energy and Pollution Reduction Act of 2015

The State Legislature approved, and the Governor signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies toward a regional electricity grid, and improved infrastructure for EV charging stations. Specifically, SB 350 requires the following to reduce Statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33 percent to 50 percent by 2030, with interim targets of 40 percent by 2024, and 25 percent by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the CEC, and local publicly owned utilities.
- Reorganize the Independent System Operator to develop more regional electrify transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.[46]

SBX 7-7—The Water Conservation Act of 2009

The legislation directs urban retail water suppliers to set individual 2020 per capita water use targets and begin implementing conservation measures to achieve those goals. Meeting this Statewide goal of 20 percent decrease in demand has resulted in a reduction of almost 2 million acre-feet in urban water use.

Senate Bill 100—The 100 Percent Clean Energy Act of 2018

The legislation directs the CPUC, CEC, and the ARB to plan for 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. This Act amends Sections 399.11, 399.15, and 399.30 of, and adds Section 454.53 to, the Public Utilities Code, relating to energy.

Executive Orders Related to GHG Emissions

California's Executive Branch has taken several actions to reduce GHGs through the use of Executive Orders, which State mandatory requirements for the Executive Branch have the effect of law. Although not legislation, they set the tone for the State and guide the actions of State agencies.

Executive Order S-3-05

Former California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S3-05, the following reduction targets for GHG emissions:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

[46] California Legislative Information (California Leginfo). 2015. Senate Bill 350 Clean Energy and Pollution Reduction Act of 2015. Website: https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160SB350. Accessed August 10, 2022.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target.

Executive Order S-01-07—Low Carbon Fuel Standard

The Governor signed Executive Order S 01-07 on January 18, 2007. The order mandates that a Statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. In particular, the Executive Order established a LCFS and directed the Secretary for Environmental Protection to coordinate the actions of the CEC, ARB, University of California, and other agencies to develop and propose protocols for measuring the "lifecycle carbon intensity" of transportation fuels. The ARB adopted the LCFS on April 23, 2009.

Executive Order S-13-08

Executive Order S-13-08 states that "climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California's economy, to the health and welfare of its population and to its natural resources." Pursuant to the requirements in the order, the 2009 California Climate Adaptation Strategy[47] was adopted, which is the ". . . first Statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States." Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order B-30-15

On April 29, 2015, Former Governor Edmund G. Brown Jr. issued an Executive Order to establish a California GHG reduction target of 40 percent below 1990 levels by 2030. The Governor's Executive Order aligns California's GHG reduction targets with those of leading international governments ahead of the United Nations Climate Change Conference in Paris late 2015. The Executive Order sets a new interim Statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050, and directs the ARB to update the Climate Change Scoping Plan to express the 2030 target in terms of metric ton (MT) CO_2e.

California Regulations and Building Codes

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California's energy consumption relatively flat even with rapid population growth and are viewed as some of the most stringent requirements in the nation.

California Code of Regulations Title 13: Motor Vehicles

California Code of Regulations, Title 13: Division 3, Chapter 10, Article 1, Section 2485: Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling.[48] This measure seeks

[47] California Natural Resources Agency. 2009. 2009 California Climate Adaptation Strategy. Website: https://cawaterlibrary.net/wp-content/uploads/2017/05/Statewide_Adaptation_Strategy.pdf. Accessed August 10, 2022.

[48] Thomas Reuters Westlaw. 2020. California Code of Regulations, Title 13: Division 3, Chapter 10, Article 1, Section 2485: Airborne

to reduce public exposure to DPM and other air contaminants by establishing idling restrictions, emission standards, and other requirements for heavy-duty diesel engines and alternative idle reduction technologies to limit the idling of diesel-fueled commercial motor vehicles. Any person that owns, operates, or causes to operate any diesel-fueled commercial motor vehicle must not allow a vehicle to idle for more than 5 consecutive minutes at any location, or operate a diesel-fueled auxiliary power system for greater than 5 minutes at any location when within 100 feet of a restricted area.

California Code of Regulations, Title 13: Division 3, Chapter 9, Article 4.8, Section 2449: General Requirements for In-Use Off-Road Diesel-Fueled Fleets. This measure regulates NO_X, DPM, and other criteria pollutant emissions from in-use off-road diesel-fueled vehicles. This measure also requires each fleet to meet fleet average requirements or demonstrate that it has met "best available control technology" requirements. Additionally, this measure requires medium and large fleets to have a written idling policy that is made available to operators of the vehicles informing them that idling is limited to 5 consecutive minutes or less.

Title 20 Appliance Efficiency Regulations

California Code of Regulations, Title 20: Division 2, Chapter 4, Article 4, Sections 1601-1608: Appliance Efficiency Regulations regulates the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and non-federally regulated appliances. Twenty-three categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the State and those designed and sold exclusively for use in recreational vehicles or other mobile equipment.

Title 24 Energy Efficiency Standards

California Code of Regulations Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The newest version of Title 24 (2022 Tile 24) adopted by the CEC went into effect on January 1, 2023.

Title 24 California Green Building Standards Code

California Code of Regulations Title 24 Part 11 code is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect January 1, 2011. The code is updated on a regular basis, with the most recent update consisting of the 2022 CALGreen that became effective January 1, 2023.[49] Local jurisdictions are permitted to adopt more stringent requirements, as State law provides methods for local enhancements. The State Building Code

Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. Website: https://govt.westlaw.com/calregs/Document/I6DACC2EF0D6441DDA5B788DFEDCD1A22?viewType=FullText&originationContext=documenttoc&transitionType=StatuteNavigator&contextData=(sc.Default). Accessed August 10, 2022.

[49] State of California. 2022. California Green Building Standards Code (CALGreen). Website: https://www.dgs.ca.gov/BSC/CALGreen. Accessed January 17, 2023.

provides the minimum standard that buildings need to meet in order to be certified for occupancy, which is generally enforced by the local building official.

Model Water Efficient Landscape Ordinance

The Model Water Efficient Landscape Ordinance (Model Ordinance) was required by AB 1881 Water Conservation Act. The bill required local agencies to adopt a local landscape ordinance at least as effective in conserving water as the Model Ordinance by January 1, 2010. Reductions in water use of 20 percent consistent with (SBX-7-7) 2020 mandate are expected for the Model Ordinance. New development projects that include landscaped areas of 500 square feet or more are subject to the Model Ordinance. The update requires:

- More efficient irrigation systems;
- Incentives for graywater usage;
- Improvements in on-site stormwater capture;
- Limiting the portion of landscapes that can be planted with high water use plants; and
- Reporting requirements for local agencies.

Senate Bill 97 and the CEQA Guidelines Revisions

Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. The code states "(a) On or before July 1, 2009, the Office of Planning and Research shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the Office of Planning and Research pursuant to subdivision (a)."

Section 21097 was also added to the Public Resources Code, which provided an exemption until January 1, 2010 for transportation projects funded by the Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006 or projects funded by the Disaster Preparedness and Flood Prevention Bond Act of 2006, in stating that the failure to analyze adequately the effects of GHGs would not violate CEQA. The Natural Resources Agency completed the approval process, and the Amendments became effective on March 18, 2010.

The 2010 CEQA Amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The CEQA Amendments fit within the existing CEQA framework by amending existing CEQA Guidelines to reference climate change.

California Supreme Court GHG Ruling

In a November 30, 2015 ruling, the California Supreme Court in *Center for Biological Diversity v. California Department of Fish and Wildlife* invalidated the EIR for the Newhall Ranch project due to insufficient evidence in the administrative record supporting that project's GHG analysis, among other reasons. The Court endorsed the use of AB 32's Statewide emission reduction goals as a legally permissible significance threshold for analyzing a project's GHG impacts under CEQA. However,

comparisons to the AB 32 Scoping Plan must be supported by a reasoned explanation based on substantial evidence.

In other words, the Court approved the methodology used in the EIR's analysis in terms of reductions from projected BAU emissions consistent with AB 32's Statewide reductions mandate (rather than against some absolute numeric limit above the project site's baseline emissions), but the Court held the GHG analysis lacked supporting substantial evidence and a cogent explanation correlating the project-specific reductions to AB 32's mandated Statewide reductions so as to demonstrate consistency with the latter's goals under the approved methodology. The Court made the following key points with respect to its holding on the GHG analysis under CEQA, as summarized below: Specifically, the Court held that:

- **Substantiation of Project Reductions from BAU**. A lead agency may use a BAU comparison based on the Scoping Plan's methodology so long as it also substantiates the reduction a particular project must achieve to comply with Statewide goals (page 25). In so doing, the lead agency needs to ensure the administrative record establishes a "firm ground for the efficiency comparison" by documenting with substantial evidence in the record the EIR's conclusion that the individual project's percent emissions savings over BAU satisfies the EIR's significance criterion of consistency with the Scoping Plan's 29 percent Statewide savings by 2020. In so doing, this alleviates the analytical gap by establishing, through substantial evidence and reasoned explanation, a quantitative equivalence between the Scoping Plan's Statewide comparison and the EIR's individual project-level comparison.
- **Compliance with Regulatory Programs or Performance-based Standards**. A lead agency "might assess consistency with AB 32's goal in whole or part by looking to compliance with regulatory programs designed to reduce greenhouse gas emissions from particular activities" (page 26).
- **Compliance with GHG Reduction Plans or Climate Action Plans**. A lead agency may utilize "geographically specific GHG emission reduction plans" such as Climate Action Plans (CAPs) or GHG emission reduction plans to provide a basis for the tiering or streamlining of project-level CEQA analysis (page 26).
- **Compliance with Local Air District Thresholds**. A lead agency may rely on "existing numerical thresholds of significance for greenhouse gas emissions" adopted by, for example, local air districts (page 27).

3.3.3 - Regional

San Joaquin Valley Air Pollution Control District Climate Change Action Plan

On August 21, 2008, the Valley Air District Board approved a proposal called the Climate Change Action Plan (CCAP). The CCAP began with a public process bringing together land use agencies, environmental groups, business groups, and other stakeholders to conduct public workshops to develop comprehensive policies for CEQA Guidelines to be used in the Air Basin, a carbon exchange bank, and voluntary GHG emissions mitigation agreements for the Valley Air District's Board's consideration. The CCAP contains the following goals and actions:

- Develop GHG significance thresholds to address CEQA projects with GHG emission increases.
- Develop the San Joaquin Valley Carbon Exchange for banking and trading GHG reductions.
- Authorize use of the Valley Air District's existing inventory reporting system to allow use for GHG reporting required by AB 32 regulations.
- Develop and administer GHG reduction agreements to mitigate proposed emission increases from new projects.
- Support climate protection measures that reduce GHG emissions as well as toxic and criteria pollutants. Oppose measures that result in a significant increase in toxic or criteria pollutant emissions in already impacted areas.

On December 17, 2009, the Valley Air District's Board adopted "Guidance for Valley Land Use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA," and the policy "District Policy—Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency." The Valley Air District concluded that the existing science is inadequate to support quantification of the impacts that project-specific GHG emissions have on global climatic change. The Valley Air District found the effects of project-specific emissions to be cumulative, and without mitigation, their incremental contribution to global climatic change could be considered cumulatively considerable. The Valley Air District found that this cumulative impact is best addressed by requiring all projects to reduce their GHG emissions, whether through project design elements or mitigation.

The Valley Air District's approach is intended to streamline the process of determining whether project-specific GHG emissions would have a significant effect. Projects exempt from the requirements of CEQA, and projects complying with an approved plan or mitigation program would be determined to have a less than significant cumulative impact. Such plans or programs must be specified in law or adopted by the public agency with jurisdiction over the affected resources and must have a certified final CEQA document.

For non-exempt projects, those projects for which there is no applicable approved plan or program, or those projects not complying with an approved plan or program, the lead agency must evaluate the project against performance-based standards and would require the adoption of design elements, known as a Best Performance Standard, to reduce GHG emissions. The Best Performance Standards (BPS) have not yet fully been established, though they must be designed to affect a 29 percent reduction when compared with the BAU projections identified in ARB's AB 32 Scoping Plan.

BAU represents the emissions that would occur in 2020 if the average baseline emissions during the 2002–2004 period were grown to 2020 levels, without control. These standards thus would carry with them pre-quantified emissions reductions, eliminating the need for project-specific quantification. Therefore, projects incorporating BPS would not require specific quantification of GHG emissions, and automatically would be determined to have a less than significant cumulative impact for GHG emissions.

For stationary source permitting projects, BPS means, "The most stringent of the identified alternatives for control of GHG emissions, including type of equipment, design of equipment and operational and maintenance practices, which are achieved-in-practice for the identified service, operation, or emissions unit class." The Valley Air District has identified BPS for the following sources: boilers; dryers and dehydrators; oil and gas extraction, storage, transportation, and refining operations; cogeneration; gasoline dispensing facilities; VOC control technology; and steam generators.

For development projects, BPS means, "Any combination of identified GHG emission reduction measures, including project design elements and land use decisions that reduce project-specific GHG emission reductions by at least 29 percent compared with business as usual."

Projects not incorporating BPS would require quantification of GHG emissions and demonstration that BAU GHG emissions have been reduced or mitigated by 29 percent. As stated earlier, the ARB's adjusted inventory reduced the amount required by the State to achieve 1990 emission levels from 29 percent to 21.7 percent to account for slower growth experienced since the 2008 recession. According to Valley Air District guidance, quantification of GHG emissions would be required for all projects for which the lead agency has determined that an environmental impact report is required, regardless of whether the project incorporates BPS.

San Joaquin Valley Carbon Exchange

The Valley Air District initiated work on the San Joaquin Valley Carbon Exchange in November 2008. The purpose of the carbon exchange is to quantify, verify, and track voluntary GHG emissions reductions generated within the San Joaquin Valley. However, the Valley Air District has pursued an alternative strategy that incorporates the GHG emissions into its existing Rule 2301—Emission Reduction Credit Offset Banking that formerly only addressed criteria pollutants. The Valley Air District is also participating with CAPCOA, of which it is a member, in the CAPCOA Greenhouse Gas Reduction Exchange (GHG Rx). The GHG Rx is operated cooperatively by air districts that have elected to participate. Participating districts have signed a Memorandum of Understanding (MOU) with CAPCOA and agree to post only those credits that meet the Rx standards for quality. The objective is to provide a secure, low-cost, high-quality, GHG exchange for credits created in California. The GHG Rx is intended to help fulfill compliance obligations, or mitigation needs of local projects subject to environmental review, reducing the uncertainty of using credits generated in distant locations.

Rule 2301

While the CCAP indicated that the GHG emission reduction program would be called the San Joaquin Valley Carbon Exchange, the District incorporated a method to register voluntary GHG emission reductions into its existing Rule 2301—Emission Reduction Credit Banking through amendments of the rule. Amendments to the rule were adopted on January 19, 2012. The purposes of the amendments to the rule include the following:

- Provide an administrative mechanism for sources to bank voluntary GHG emission reductions for later use.

- Provide an administrative mechanism for sources to transfer banked GHG emission reductions to others for any use.
- Define eligibility standards, quantitative procedures, and administrative practices to ensure that banked GHG emission reductions are real, permanent, quantifiable, surplus, and enforceable.

Tulare County Association of Governments

2018 Regional Transportation Plan/Sustainable Communities Strategy

The Tulare County Association of Governments (TCAG) 2018 Regional Transportation Plan (RTP) includes a Sustainable Communities Strategy (SCS) component in accordance with SB 375, the Sustainable Communities and Climate Protection Act of 2008. TCAG adopted the 2018 SCS/RTP on August 20, 2018. In so doing, the TCAG Board of Directors made a determination that, if implemented, the SCS would achieve the per capita passenger vehicle GHG emissions targets established by its Board of Directors. The 2020 target is a 5 percent per capita reduction and the 2035 target is a 10 percent per capita reduction from the 2005 base year. The ARB accepted the determination that the TCAG 2018 SCS, if implemented, would achieve the region's per capita GHG emission reduction targets for 2020 and 2035.

At the time of writing of this report, the TCAG 2022 RTP was still in the Draft phase and has not yet been formally adopted. [50]

The 2018 SCS/RTP strives to reduce air emissions from passenger vehicle and light-duty truck travel by better coordinating transportation expenditures with forecasted development patterns and, if feasible, help meet ARB GHG targets for the region. SB 375 requires the ARB to develop regional GHG emission reduction targets for passenger vehicles. The ARB is to establish targets for the automobile and light-duty truck sector for 2020 and 2035 for each region covered by one of the State's 18 metropolitan planning organizations. Regional metropolitan planning organizations are responsible for preparing an SCS within their RTP. The key purpose of SB 375 and the TCAG SCS is to reduce per capita emissions originating from passenger vehicles and light-duty trucks. Accordingly, the 2018 SCS/RTP:

- Describes sources of emissions in the Tulare County region, 2020 and 2035 emission reduction targets established by the ARB for the San Joaquin Valley, and modeling techniques used to estimate and forecast emissions;
- Identifies Statewide strategies to reduce transportation-related emissions and their anticipated effect within the Tulare County region;
- Identifies regional strategies that complement the SCS by reducing emissions in other sectors (e.g., energy consumption);
- Quantifies the effect of policies and programs in the RTP that reduce transportation-related emissions in the region; and

[50] Tulare County Association of Governments (TCAG). 2022. Website: https://tularecog.org/tcag/about-us/. Accessed July 20, 2022.

- Compares the emissions reductions anticipated with implementation of the SCS/RTP with the regional targets.

The GHG emission targets for lowering emissions in the San Joaquin Valley, as set by the ARB and approved by the TCAG Board of Directors, call for a 5 percent reduction in per capita emissions from passenger vehicles and light trucks by 2020 and a 10 percent reduction by 2035 through land use and transportation planning. Based on the analysis of strategies included in the 2018 SCS/RTP, CO_2 emissions were anticipated to be 12.3 percent lower than 2005 levels by 2020 and 16.0 percent lower by 2035, exceeding the targets established by the ARB in 2010.

3.3.4 - Local

City of Visalia General Plan

The City of Visalia General Plan was updated and adopted on October 14, 2014, and establishes the following applicable objectives and policies that are relevant to GHG emissions evaluated in this analysis:

Chapter 7: Air Quality and Greenhouse Gas Emissions

Objective AQ-O-3 **Reduce emissions of greenhouse gases that contribute to global climate change in accord with federal and State law.**

AQ-P-12 Support the implementation of Voluntary Emissions Reduction Agreements (VERA) with the San Joaquin Valley Air Pollution Control District (the District) for individual development projects that may exceed District significance thresholds. A VERA is a voluntary mitigation measure where a project proponent provides pound-for-pound mitigation of emissions increases through a process that develops, funds, and implements emissions reduction projects, with the District serving a role of administrator of emissions reduction programs and verifier of successful mitigation effort. To implement a VERA, the project proponent and the District enter into a contractual agreement in which the project proponent agrees to mitigate project-specific emissions by providing funds for the District's Strategies and Incentives Program. The funds are disbursed in the form of grants for projects that achieve emissions reductions.

AQ-P-13 Where feasible, replace City vehicles with those that employ low emission technology.

AQ-P-14 Promote and expand the trip-reduction program for City employees to reduce air pollution and emissions of greenhouse gas. The program may include carpooling and ride sharing; reimbursement of transit costs; encouragement of flexible work schedules, telecommuting, and teleconferencing.

AQ-P-15 Maintain an inventory of greenhouse gas emissions from City operations and track related solid waste, energy, economic, and environmental data. Update the inventory periodically as additional data and methodologies become available.

AQ-P-16 Support State efforts to reduce greenhouse gases and emissions through local action that will reduce motor vehicle use, support alternative forms of transportation, require energy conservation in new construction, and energy management in public buildings, in compliance with AB 32. By proposing compact development, mixed-use centers, walkable neighborhoods, green building technology, and jobs-housing balance, the City will be helping to implement many of the strategies and programs in the San Joaquin Valley 2007 Ozone Plan.

AQ-P-17 Prepare and adopt a Climate Action Plan that incorporates a Greenhouse Gas (GHG) Emissions Reduction Plan. The GHG Emissions Reduction Plan will quantify current and anticipated future emissions and focus on feasible actions the City can take to minimize the adverse impacts of General Plan implementation on climate change and air quality.

City of Visalia Climate Action Plan

The City of Visalia CAP was adopted in December 2013 and provides a policy document that includes strategies for reducing GHG emissions. The CAP includes objectives and policies from the General Plan that address long-term emissions reduction efforts and the timeframe of the CAP extends through 2030. Visalia's CAP includes a baseline GHG emissions inventory of community and municipal sector GHG emissions, identification and analysis of existing and proposed GHG reduction measures, and GHG emission reduction targets to help Visalia work toward the State's goal of an 80 percent reduction below baseline emissions by 2050. The CAP sets 2020 and 2030 GHG emission reduction targets, and includes reduction actions for energy, transportation, and waste and resource conservation. Additionally, the CAP includes targets and action steps for the municipal and community sectors. The CAP was prepared concurrently with the updated General Plan, was evaluated in the General Plan Environmental Impact Report together with the General Plan update, and includes objectives and specific policies from the proposed General Plan to address long-term emissions reduction efforts by the City.[51]

The CAP sets five major long-term objectives for the City government and community as a whole[52]:

- Reduce net GHG emissions from both municipal operations and community activities;
- Promote cleaner and healthier air to breathe;
- Help the City and its residents save on energy costs;
- Reduce vulnerability to changes in energy availability and price; and
- Increase public awareness of climate change issues.

The CAP sets a reduction target of 15 percent below 2005 baseline year level by 2020 and 30 percent below 2005 baseline year level by 2030. In order to meet these reduction targets the CAP includes a comprehensive set of actions and programs: Energy Systems, Transportation, Water and Resource Conservation, Transportation/Land Use, and Waste and Resource Conservation. However, the City

[51] City of Visalia. 2014. General Plan Update EIR, Chapter 3.4 Greenhouse Gases and Climate Change, Page 3.4-17.
[52] Strategic Energy Innovations. December 2013. City of Visalia Climate Action Plan.

has not monitored the progress of achieving the goals of the CAP. As such, without a mechanism to track the effectiveness of the CAP goals and measures, the CAP cannot be relied upon for the purposes of CEQA analysis. The proposed project's consistency with the CAP is discussed for informational purposes only.

SECTION 4: MODELING PARAMETERS AND ASSUMPTIONS

4.1 - Model Selection and Guidance

Regional air pollutant emissions are composed of those on-site and off-site construction and operational emissions generated from all components of the proposed project. Air pollutant emissions can be estimated by using emission factors and a level of activity. Emission factors represent the emission rate of a pollutant over a given time or activity for example, grams of NO_X per vehicle mile traveled or grams of NO_X per horsepower hour of equipment operation. The activity factor is a measure of how active a piece of equipment is and can be represented as the amount of material processed, elapsed time that a piece of equipment is in operation, horsepower of a piece of equipment used, the amount of fuel consumed in a given amount of time, or VMT per day. The ARB has published emission factors for on-road mobile vehicles/trucks in the Emission Factor (EMFAC) mobile source emissions model and emission factors for off-road equipment and vehicles in the OFFROAD emissions model. An air emissions model (or calculator) combines the emission factors and the levels of activity and outputs the emissions for the various pieces of equipment.

The California Emissions Estimator Model (CalEEMod) was developed in cooperation with the SCAQMD, the Valley Air District, and other air districts throughout the State. CalEEMod is designed as a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with construction and operation from a variety of land uses. The current version of CalEEMod, Version 2020.4.0, was launched on June 1, 2021, as part of a coordinated development effort between CAPCOA, the California Air Districts and Trinity Consultants. Regional construction and operational emissions reported in this analysis were modeled using CalEEMod Version 2020.4.0.

4.2 - Air Pollutants and GHGs Assessed

4.2.1 - Criteria Pollutants Assessed

The following air pollutants are assessed in this analysis:

- Reactive organic gases (ROG)
- Nitrogen oxides (NO_x)
- Carbon monoxide (CO)
- Sulfur oxides (SO_x)
- Particulate matter less than 10 microns in diameter (PM_{10})
- Particulate matter less than 2.5 microns in diameter ($PM_{2.5}$)

Note that the proposed project would emit ozone precursors ROG and NO_X. However, the proposed project would not directly emit ozone since it is formed in the atmosphere during the photochemical reaction of ozone precursors.

The proposed project would emit ultrafine particles. However, there is currently no standard separate from the $PM_{2.5}$ standards for ultrafine particles and there is no accepted methodology to quantify or assess the significance of such particles.

4.2.2 - Greenhouse Gases Assessed

This analysis is appropriately limited to GHGs identified by AB 32, which include carbon dioxide, methane, N_2O, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride.

The proposed project may emit GHGs that are not defined by AB 32. For example, the proposed project may generate aerosols through emissions of DPM from the vehicles and trucks that would access the project site. Aerosols are short-lived particles, as they remain in the atmosphere for about one week. Black carbon is a component of aerosols. Studies have indicated that black carbon has a high GWP; however, the Intergovernmental Panel on Climate Change states that these studies were not conclusive and the results are based on a low level of scientific certainty.[53]

In addition, water vapor could be emitted from evaporated water used for landscaping in connection with the proposed project, but water vapor concentrations in the upper atmosphere are primarily due to climate feedbacks rather than emissions from project-related activities, and therefore it was determined that it would be speculative to consider potential project impacts associated with water vapor.

The proposed project would emit NO_x and VOCs, which are ozone precursors. However, this is distinct from ozone, which itself, is a GHG; however, unlike the other GHGs, ozone in the troposphere is relatively short-lived and can be reduced in the troposphere on a daily basis. Stratospheric ozone can be reduced through reactions with other pollutants.

Furthermore, certain GHGs defined by AB 32 would not be emitted by the proposed project given the proposed uses. Perfluorocarbons and sulfur hexafluoride are typically used in heavy industrial applications,[54] none of which would be used by the proposed project. Therefore, it is not anticipated that the proposed project would emit perfluorocarbons or sulfur hexafluoride, and thus these GHGs are not studied in this analysis.

4.3 - Modeling Assumptions

4.3.1 - Construction

Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and prevailing weather conditions. Construction emissions result from on-site and off-site activities. On-site emissions principally consist of exhaust emissions from the activity levels of heavy-duty construction equipment, motor vehicle operation, and fugitive dust (mainly

[53] Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller [eds.]). Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Website: https://www.ipcc.ch/report/ar4/wg1/. Accessed September 8, 2022.

[54] Note: the heavy industrial land uses stated here include uses such as petroleum refineries and manufacturing of heavy metals. Light industrial uses would not engage in similar applications.

PM_{10}) from disturbed soil. Additionally, paving operations and application of architectural coatings would release VOC emissions. Off-site emissions are caused by motor vehicle exhaust from delivery vehicles, worker traffic, hauling truck trips associated with grading activity, and road dust (PM_{10} and $PM_{2.5}$).

Construction activities would consist of site preparation, grading, demolition, building construction, paving, and architectural coating of the inside and outside of the buildings. In addition, construction activity would include off-site improvements to adjacent roadways improve curbs, gutters, sidewalks that would include paving and architectural coating activities. Demolition activity would occur on-site to remove the existing small outbuildings used for agricultural purposes.[55] For each construction activity, the construction equipment operating hours and numbers represent the average equipment activity over the duration of the activity. A conceptual construction schedule is provided in Table 8 that presents the duration for each construction activity. Table 9 presents the number of assumed construction equipment along with hours of operation per day, horsepower, and load factor. Where project-specific information was not available or unknown, default assumptions were used to complete emissions modeling. The activity for construction equipment is based on the horsepower and load factors of the equipment. In general, the horsepower is the power of an engine—the greater the horsepower, the greater the power. The load factor is the average power of a given piece of equipment while in operation compared with its maximum rated horsepower. A load factor of 1.0 indicates that a piece of equipment continually operates at its maximum operating capacity. This analysis uses the CalEEMod default load factors for off-road equipment.

The anticipated construction schedule, as shown in Table 8, reflects the construction start date and construction phase durations estimated by the project applicant. The start date of the construction schedule used in the analysis represents a reasonable "worst-case" analysis scenario since emission factors for construction equipment decrease as the analysis year increases, due to improvements in technology and compliance with more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moved to later years.

In order to evaluate a reasonable "worst-case" scenario, CalEEMod default phase lengths and construction equipment were used for the site preparation and grading activities. In addition, the site preparation and grading phases were assumed to start at the beginning of construction and occur across the entire approximately 284-acre project site during other phase(s) of activity. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required by CEQA.

[55] Note: Demolition activity would result in approximately 49 cubic yards of debris that would result in hauling truck trips. As shown in Appendix A and C, specifically the demolition debris calculation, the associated emissions from demolition has been accounted for in the modeling.

Table 8: Conceptual Construction Schedule

Construction Activity	Conceptual Construction Schedule		Working Days per Week	Working Days
	Start Date (approximately)	End Date (approximately)		
On-Site Construction				
Site Preparation and Grading for the Entire Project Site				
Demolition	3/14/2024	4/24/2024	5	30
Site Preparation	3/14/2024	11/20/2024	5	180
Grading	11/21/2024	9/2/2026	5	465
Phase 1				
Building Construction	3/14/2024	3/14/2025	5	262
Paving	3/14/2024	1/15/2025	5	220
Architectural Coating	5/10/2024	3/13/2025	5	220
Phase 2				
Building Construction	9/12/2025	9/12/2026	5	261
Paving	9/12/2025	12/25/2025	5	75
Architectural Coating	6/1/2026	9/11/2026	5	75
Phase 3				
Building Construction	3/12/2027	3/12/2028	5	261
Paving	3/12/2027	8/12/2027	5	110
Architectural Coating	10/1/2027	3/10/2028	5	110
Off-Site Improvements				
Paving	3/14/2024	4/10/2024	5	20
Architectural Coating	4/11/2024	5/8/2024	5	20
Source: CalEEMod Output (Appendix A).				

A summary of the on-site, off-road construction equipment usage assumptions used to estimate emissions is presented in Table 9.

Table 9: Project Construction Equipment Assumptions

Construction Activity	Equipment	Equipment Amount	Average Hours per day	Horsepower	Load Factor
Site Preparation and Grading for the Entire Project Site					
Demolition	Concrete Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38

Construction Activity	Equipment	Equipment Amount	Average Hours per day	Horsepower	Load Factor
	Rubber Tired Bulldozers	2	8	247	0.40
Site Preparation	Rubber Tired Bulldozers	3	8	247	0.40
	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Bulldozers	1	8	247	0.40
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37
Phase 1					
Off-Site Improvements (Paving)	Pavers	2	8	130	0.42
	Rollers	2	8	80	0.38
	Paving Equipment	2	8	132	0.36
Off-Site Improvements (Architectural Coating)	Air Compressors	1	6	78	0.48
Building Construction [1,2]	Cranes	12	6.9	231	0.29
	Forklifts	32	8.9	89	0.20
	Generator Sets	12	7.9	84	0.74
	Tractors/Loaders/Backhoes	32	7.8	97	0.37
	Welders	12	7.9	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48
Phase 2					
Building Construction [1,2]	Cranes	4	7.4	231	0.29
	Forklifts	12	8.5	89	0.20
	Generator Sets	4	8.5	84	0.74
	Tractors/Loaders/Backhoes	12	7.4	97	0.37
	Welders	4	8.5	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Activity	Equipment	Equipment Amount	Average Hours per day	Horsepower	Load Factor
Phase 3					
Building Construction [1,2]	Cranes	6	6.9	231	0.29
	Forklifts	18	7.9	89	0.20
	Generator Sets	6	7.9	84	0.74
	Tractors/Loaders/Backhoes	16	7.8	97	0.37
	Welders	6	7.9	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Notes:
[1] Default values for construction equipment usage hours were adjusted to match the CalEEMod default total grading horsepower hours. When the default schedule is changed in CalEEMod, the usage hours do not adjust accordingly. Therefore, because the default construction schedule was adjusted to match the project-specific anticipated construction schedule, the construction equipment was adjusted to retain the CalEEMod default totals.
[2] Default values for construction equipment usage hours were adjusted to match the CalEEMod default total building construction horsepower hours.
Source: CalEEMod Output (Appendix A).

A summary of the construction-related vehicle trips is shown in Table 10. During demolition, approximately 1,065 square feet of existing outbuildings and foundations would be removed. During project grading, it is expected that approximately 130,000 cubic yards of fill would be imported to the project site; the remaining cut and fill is expected to balance on-site. CalEEMod default values for trip lengths and vehicle fleets were used. Note that the total number of off-site construction vehicle trips would not necessarily occur on the same day, since construction activities would vary each day during the construction period.

Table 10: Construction Off-site Trips

Construction Activity	Worker (Approx. trips per day)	Vendor (Approx. trips per day)	Haul (Approx. total trips)
Demolition, Site Preparation, and Grading for the Entire Project Site			
Demolition	15	0	5
Site Preparation	18	0	0
Grading	20	0	16,250
Phase 1			
Building Construction	2,159	842	0
Paving	15	0	0

Construction Activity	Worker (Approx. trips per day)	Vendor (Approx. trips per day)	Haul (Approx. total trips)
Architectural Coating	432	0	0
Phase 2			
Building Construction	1,207	471	0
Paving	15	0	0
Architectural Coating	241	0	0
Phase 3			
Building Construction	1,518	592	0
Paving	15	0	0
Architectural Coating	304	0	0
Off-site Improvements Only			
Paving	15	0	0
Architectural Coating	50	0	0
Source: CalEEMod Output (Appendix A).			

Fugitive Dust

Airborne dust is a substantial component of the elevated PM_{10} concentrations in the San Joaquin Valley. Excavation, demolition, grading, unvegetated surfaces exposed to wind, material handling, material storage piles, and vehicle travel on paved and unpaved surfaces all can be sources of substantial fugitive dust emissions if not properly managed or maintained.

Dust would be generated within the entire project site and at off-site locations along the areas proposed for project-related infrastructure improvements. To avoid increased adverse health effects from new construction-related PM_{10} and to address significant nuisance concerns (if any), such as visible clouds of dust and soiling of exposed surfaces, the Valley Air District oversees an extensive set of rules in Regulation VIII. All aspects of the proposed project would be required to comply with the applicable Valley Air District rules. The CalEEMod construction modeling runs include fugitive dust control measures as limiting on-site speed limits to 15 miles per hour (mph) and watering the project site twice per day, consistent with the foregoing rules.

4.3.2 - Operation

The major sources of operational emissions that would occur over the long-term operations of the proposed project are summarized below.

Motor Vehicles

Motor vehicle emissions refer to exhaust and road dust emissions from the motor vehicles that would travel to and from and within the project site. The regional emissions from the proposed project's mobile sources were estimated using CalEEMod. The proposed project would primarily

generate passenger vehicle trips from employees and visitors traveling to and from the project site; however, the proposed project would also be served with daily truck deliveries. An estimate of the number of vehicle trips that the proposed project would generate was presented in the Shirk and Riggin Industrial Park Project Trip Generation tables prepared by Kimley-Horn for the proposed project, as shown in Table 11.

Table 11: Vehicle Trip Generation During Operations

Vehicle Type	Actual passenger vehicles/trucks (trips per day)	PCE[1] (trips per day)
Passenger Vehicles	19,375	19,375
Trucks	2,034	4,068
Total Project Trips	**21,409**	**23,443**

Note:
PCE = Passenger Car Equivalent
[1] PCE = 2.0 per City of Visalia Guidance
Source: Kimley-Horn and Associates, Transportation Impact Analysis for Shirk & Riggin Industrial Park, September 2023.

The trip summary shown in Table 11 includes trips from both passenger vehicles and trucks. The trip generation prepared for the proposed project estimates that trips from passenger vehicles would account for approximately 19,375 of the approximately 21,409 total daily actual trips generated by the proposed project, while trucks would account for approximately 2,034 of the total daily actual trips generated by the proposed project.

Light industrial land use projects, including warehouse, storage, and distribution projects such as the one at hand, can be expected to have longer than average truck trip lengths compared to the default trip lengths in CalEEMod (7.3 miles to 9.5 miles for urban areas of Tulare County). This is because the goods that the warehouses would store and distribute often come from major ports, such as the Port of Long Beach or Oakland.

Therefore, to ensure an appropriately conservative analysis, to estimate mobile source emissions from trucks during project operations, a one-way truck trip length of 50 miles was assumed based on recommendations from the Valley Air District for industrial projects. To apply a longer trip length for trucks and to show a clear breakdown of emissions, modeling of the proposed project's operations was split into two separate CalEEMod runs: (1) area source emissions, energy-source emissions, and passenger vehicle mobile source emissions, and (2) truck mobile source emissions. The vehicle types in the first operational run were adjusted so that only passenger vehicles were represented. Since there are various types of passenger vehicles included in CalEEMod, the CalEEMod default fleet mix for Tulare County was used as the basis for the determining the passenger car fleet mix used in the first operational year. The number of daily operational vehicle trips used to estimate emissions were the actual daily trip presented in Table 11, consistent with those presented in the project-specific trip generation estimate.

Emission factors were assigned to the expected vehicle mix as a function of vehicle age, vehicle class, speed, and fuel type. The overall operational fleet mix used to assess emissions from the proposed project is shown below in Table 12, while the fleet mixes applied in each operational run are noted in Table 13.

Table 12: Vehicle Type Classification—CalEEMod Default Operational Fleet Mix for Tulare County (2025)

Vehicle Type	Classification	Project Total Fleet Mix
Passenger Vehicles and Vans	LDA	45.6%
	LDT1	3.9%
	LDT2	19.2%
	MDV	20.6%
Trucks (all trucks assumed to be 4- or 4+-Axle, which presents a conservative estimate)	HHDT	1.5%
Notes: HHDT = Heavy Heavy-Duty Truck LDA = Light-Duty Auto LDT = Light-Duty Truck MDV = Medium-Duty Vehicle Source: CalEEMod Output (Appendix A) and Additional Air Quality and Greenhouse Gas Emissions Supporting Information (Appendix C).		

Table 13: Vehicle Type Classification—Individual Project Runs

CalEEMod Run	Classification	Fleet Mix Applied in Modeling
Passenger Vehicles (employee trips)	LDA	51.0%
	LDT1	4.4%
	LDT2	21.5%
	MDV	23.1%
	Passenger Vehicle Mix Total	*100%*
Trucks	HHDT	100%
Notes: HHDT = Heavy Heavy-Duty Truck LDA = Light-Duty Auto LDT = Light-Duty Truck MDV = Medium-Duty Vehicle Source: CalEEMod Output (Appendix A) and Additional Air Quality and Greenhouse Gas Emissions Supporting Information.		

Other Emission Sources

Area Sources

In addition to typical mobile- and energy-source emissions, long-term operational emissions also include area source emissions. Area source emissions include occasional architectural coating activities for repainting and maintenance of the buildings associated with the proposed project. CalEEMod assumes that repainting occurs at a rate of 10 percent of the buildings per year. Therefore, on average, it is assumed that the buildings would be fully repainted every 10 years.

Other area source emissions include consumer products that involve solvents that emit VOCs during use. CalEEMod includes default consumer product use rates based on building square footage. In addition, CalEEMod default emission factors for landscape maintenance equipment were used in this analysis.

Indirect Emissions

For GHG emissions, CalEEMod contains calculations to estimate indirect GHG emissions. Indirect emissions are emissions where the location of consumption or activity is different from where actual emissions are generated. For example, electricity would be consumed at the project site as a result of the proposed project; however, emissions associated with producing that electricity to serve the proposed project are generated off-site at a power plant.

CalEEMod includes calculations for indirect GHG emissions for electricity consumption, water consumption, and solid waste disposal. For water consumption, CalEEMod calculates embedded energy (e.g., treatment, conveyance, distribution) associated with providing each gallon of potable water to the proposed project. For solid waste disposal, CalEEMod calculates GHG emissions generated as solid waste generated by the proposed project decomposes in a landfill.

For electricity-related emissions, CalEEMod contains default electricity intensity factors for various utilities throughout California. The CalEEMod default emissions factors were used for SCE for purposes of this analysis.

Refrigerants

During project operation, it is reasonable to assume there may be leakages of refrigerants (hydrofluorocarbons) from air conditioners and any refrigeration systems. Hydrofluorocarbons are typically used for refrigerants, which are long-lived GHGs. The proposed project does not include a cold storage facility. Therefore, any leakage of refrigerants associated with an unrefrigerated industrial building is expected to be minor; thus, because they would be nominal (at most) and would otherwise be speculative to approximate, they were not included in this analysis.

Vegetation

The project site contains mature trees, and therefore there is currently some carbon sequestration occurring on-site. The proposed project would involve some tree removal, but would also involve the planting of trees and integration of ample landscaping into the project design as described in the project description, which would also provide carbon sequestration. However, the number of trees to be planted is unknown and data are insufficient to accurately determine the impact that the

existing landscaping has on carbon sequestration. For this analysis, it was assumed that the loss and addition of carbon sequestration that are due to the proposed project would be balanced given the number of trees to be removed as compared to the number of trees and other landscaping to be incorporated into the proposed project pursuant to the City's applicable tree preservation policies; therefore, emissions due to carbon sequestration were not calculated.

4.4 - Air Dispersion Modeling

An air dispersion model is a mathematical formulation used to estimate air quality impacts at specific locations (receptors) surrounding a source of emissions given the rate of emissions and prevailing meteorological conditions. The air dispersion model applied in this assessment was the EPA American Meteorological Society Regulatory Model (AERMOD), Version 22112, which is approved by the Valley Air District for air dispersion assessments. The AERMOD model provides a refined methodology for estimating localized construction and operational impacts by utilizing long-term, measured representative meteorological data for the project site and representative construction and operational schedules.

Terrain elevations were obtained for the project site using the AERMAP model, the AERMOD terrain data pre-processor. The urban dispersion option was used to describe air dispersion in the local vicinity of the project site. The air dispersion model assessment was performed using meteorological data from the Visalia Station (Station 93144), which is located approximately 2.95 miles southwest of the project site.

4.4.1 - Air Dispersion Modeling–Construction

The AERMOD model was used to estimate levels of air emissions at sensitive receptor locations from project construction PM_{10} exhaust emissions. Receptor locations within the AERMOD model were placed at locations of existing residences surrounding the project site because these would be the closest sensitive receptors near the project site. Although Denton Elementary School would be located 2,300 feet to the southeast, receptor locations were not included at this elementary school because residential receptors located much closer to the project site would present a conservative analysis. To evaluate the proposed project's localized construction impacts, sensitive receptor height were considered at the point of maximum impact. All sensitive receptors were placed within the breathing zone at zero meters above ground level.

The on-site construction area sources were assumed to cover the entire project site. Emissions from the on-site construction exhaust source were assumed to be emitted at 5 meters above ground to account for the top of equipment exhaust stacks where emissions are released to the atmosphere and the increase in emission height due to its heated exhaust. The on-road construction vehicle emissions were represented in the AERMOD model as line volume sources with a release height of 10.2 feet (3.1 meters) for diesel vehicles.

4.4.2 - Air Dispersion Modeling–Operation

Each operational emission source to be evaluated requires geometrical and emission release specifications for use in the air dispersion model. The emission source configurations applied in this

assessment are shown in Table 14. Note, passenger vehicles would not be a significant source of DPM emissions, because they are gasoline powered, which emits TACs in insignificant amounts, and do not emit DPM due not using diesel fuels.

Table 14: Summary of Operational Diesel Emission Source Configurations

Emission Source Type	Configuration	Relevant Assumptions
On-site Truck Traffic	Area Source (Sitewide)	• Area source with vertical height accounting for exhaust from trucks over various roadway paths to buildings across entire facility • Vehicle Speed: 0-15 mph • Vehicle types: Heavy Heavy-Duty (HHDT) delivery trucks • Emission factors: EMFAC2021
On-site Truck Idling	Line Volume and Point Sources	• Stack release height: 3.8 meters • Idle Instances: 20 minutes total –Truck/Docking and Parking Areas: 50 percent of idling time –Entrance Gate Areas: 50 percent of idling time –Vehicle type: HHDT delivery trucks • Idle Emission rates (g/idle-hour) • Emission factors: EMFAC2021-PL
Off-site Truck Traffic	Line Volume Sources	• Truck travel was estimated for project-generated off-site travel within approximately 1,000 feet of the project site. • Three travel links from the project to outlying areas were identified based on the truck travel distribution provided in the project-specific traffic report, and emissions were estimated along each travel link. • Vehicle speeds: 0 mph to 25 mph aggregated • Emission factors: EMFAC2021
Facility Operations	Project	• Trucking operations: 24 hours per day/365 days per year
Appendix B: Health Risk Assessment.		

Given the proposed gas station, the analysis took into account specific emissions associated with this type of use. The primary routine emission sources at gasoline service stations are classified into five categories of loading, breathing, fueling, spillage, and hose permeation and are described in Table 15.

Table 15: Categories of Emissions at Retail Gasoline Service Stations

Emission Source	Description	Controls
Loading	Loading losses occur when Fuel Tanker Trucks makes delivery to gas stations. Gasoline vapor emissions occur as gas enters the underground storage tanks.	Phase I Enhanced Vapor Recovery (EVR)

Emission Source	Description	Controls
Breathing	Breathing emissions occur during periods of low activity or inactivity. Temperature changes inside the underground storage tank can cause gasoline vapor pressures to increase above pressure limit for the tank and excess pressure is released via a gas station vent pipe in the form of gasoline vapor emissions.	Phase II EVR
Fueling	Fueling emissions occur at the gas pump during vehicle fueling–gasoline vapors are emitted from the space due to a poor seal between the nozzle and the vehicle.	Onboard Refueling Vapor Recovery (ORVR) systems Phase II EVR Nozzles
Spillage	Generated from dispensing nozzle spillage of liquid gasoline during the act of vehicle fueling, including pre-fueling, fueling and post-fueling spillage. While emissions from all other mechanisms are in the form of vapors, spillage losses are in liquid form.	Phase II EVR "Dripless" Nozzles
Hose Permeation	Emissions occur from the fueling hoses at the gas pumps. Gasoline vapors can pass through (or permeate) the fuel delivery hoses.	Low Permeation Hoses

Factors influencing emissions include annual and hourly throughput and the type of tank (above or underground) and the vapor controls on the underground gasoline storage tanks and during vehicle fueling. Emissions also depend on the percentage of vehicles fueling at the station that are equipped with Onboard Refueling Vapor Recovery (ORVR) systems. Modern retail gas stations, such as the proposed project, almost exclusively use underground storage tank designs with ARB certified Phase I and Phase II Enhanced Vapor Recovery (EVR) Systems. The percentage of ORVR is not a feature of gas stations but of the vehicle fleet in California. ORVR systems were required in automobiles manufactured in model year 2000 and after and represent the majority, but not all, of vehicles at retail service stations. It has been projected for year 2018 that 83 percent of gasoline was dispensed to vehicles with ORVR installed, and the remaining 17 percent gasoline was dispensed to cars without ORVR and with fueling losses controlled by Phase II EVR Nozzles.[56]

[56] California Air Resources Board (ARB). 2013. Attachment 1–Revised Emission Factors for Phase II Vehicle Fueling at California Gas Dispensing Facilities. Website: https://ww2.arb.ca.gov/gasoline-dispensing-facility-emission-factors. Accessed January 6, 2023.

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SECTION 5: AIR QUALITY IMPACT ANALYSIS

This section calculates expected emissions from project construction and operation as a necessary requisite for assessing the significance for purposes of CEQA of project emissions on a regional and local level. The City has elected, in its discretion, to utilize the methodology set forth in the GAMAQI, which identifies recommended thresholds of significance and analysis methodologies and provides guidance on mitigating significant impacts.

5.1 - CEQA

CEQA defines, generally, a significant effect on the environment as "a substantial, or potentially substantial, adverse change in the environment." To determine whether a project would have a significant impact on air quality, the type, level, and impact of emissions generated by the proposed project must be evaluated pursuant to the applicable specific thresholds identified by Appendix G of the CEQA Guidelines (see below).

While the final determination of whether a project is significant is within the purview of the Lead Agency pursuant to Section 15064(b) of the CEQA Guidelines, the Valley Air District recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions. The City, as the Lead Agency, has elected in its discretion to utilize the foregoing thresholds, as detailed further below.

5.1.1 - Thresholds of Significance

This analysis uses the air quality significance thresholds contained in Appendix G of the CEQA Guidelines, effective December 28, 2018. A significant impact would occur if the proposed project would:

a) Conflict with or obstruct implementation of the applicable air quality plan.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard.

c) Expose sensitive receptors to substantial pollutant concentrations.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

As noted above, the City has elected to utilize the applicable Valley Air District thresholds and methodologies, which are contained under each impact statement below.

5.2 - Impact Analysis

5.2.1 - Consistency with Air Quality Management Plan

Impact AIR-1: **The proposed project would conflict with or obstruct implementation of the applicable air quality plan.**

Impact Analysis

In accordance with relevant Valley Air District thresholds and methodologies, this evaluation utilizes the following criteria for determining project consistency with the current Air Quality Plan (AQP):

1. Will the proposed project support the primary goals of the AQP?
2. Will the proposed project comply with applicable control measures in the AQP?
3. Will the proposed project disrupt or hinder implementation of any AQP control measures?

The use of the criteria listed above is a standard approach for CEQA analysis of projects in the Valley Air District's jurisdiction, as well as within other air districts, for the following reasons:

- Significant contribution to existing or new exceedances of the air quality standards would be inconsistent with the goal of attaining the air quality standards.
- AQP emissions inventories and attainment modeling are based on growth assumptions for the area within the Valley Air District's jurisdiction.
- AQPs rely on a set of air district initiated control measures as well as implementation of federal and State measures to reduce emissions within their jurisdictions, with the goal of attaining the air quality standards.

AQPs are plans for reaching attainment of air quality standards. The assumptions, inputs, and control measures are analyzed to determine whether the Air Basin can reach attainment for the ambient air quality standards. In order to show attainment of the standards, the Valley Air District analyzes the growth projections in the San Joaquin Valley, contributing factors in air pollutant emissions and formations, and existing and adopted emissions controls. The Valley Air District then formulates a control strategy to reach attainment that includes both State and District regulations and other local programs and measures.

Criterion 1

A method for determining consistency with the AQP's assumptions is determining consistency with the applicable General Plan's growth projections to ensure that the proposed project's population density, intensity, and land uses are consistent with the growth assumptions used in the AQP for the Air Basin.

The development of emission burdens used in the AQP to demonstrate compliance with ambient air quality standards is based, in part, on land use patterns established within local general plans. Therefore, it is reasonable to conclude that if a project is consistent with the applicable general plan land use designation(s), and the general plan was adopted prior to the applicable AQP, then the

growth of VMT and/or population generated by said project would be consistent with the growth in VMT and population assumed within the AQP. The applicable General Plan in this case is the City of Visalia General Plan.

The project site is designated as Industrial and Light Industrial[57] according to the City of Visalia General Plan and zoned County Area according to the City of Visalia Zoning Ordinance. The Light Industrial designation is intended for light manufacturing, warehousing, storage, distribution, research and development enterprises, and secondary office (limited customer access) uses. The maximum floor area ratio (FAR) for this designation is 0.5. The Industrial designation allows uses such as primary manufacturing, processing, refining, and similar activities, including those with outdoor facilities. It also accommodates warehousing and distribution with supporting commercial services (such as drive-through restaurants, gas stations, self storage, and car washes) and office space. General retail uses such as clothing shops are not permitted.[58] The maximum FAR for this designation is 0.6.

The project site is currently adjacent to but outside of City limits; accordingly, as part of the initial project entitlements, the applicant is seeking pre-zoning of the project site from the City to "Industrial" and "Light Industrial." Upon annexation into the City, the project site's Industrial and Light Industrial pre-zoning would become the effective zoning for the project site. The proposed project would result in a total FAR of 0.30.[59] As a result, the proposed project would involve the type of land uses contemplated by the City's General Plan and would be within the allowable FAR ratio required under and assumed by the City General Plan's relevant land use designations. In addition, according to the Visalia Zoning Ordinance, Table 17.25.030 the proposed project's objective of providing an automated car wash and fast food restaurant with a drive-through would be allowed with a CUP and the self storage and fueling station uses would be permitted by right as part of the Zoning Designation.

Furthermore, with approval of the requested CUPs for the convenience store, drive-through lanes, and certain lot sizes set forth in the proposed development plan, the proposed project would not have the potential to conflict with the contemplated land use vision and thus assumed growth projections for the project site.

As such, the proposed project would be consistent with the growth projections assumed in the City's General Plan and thus the relevant AQP, and thus would not result in any unplanned growth and associated emissions. Therefore, the proposed project's impacts would not be found significant regarding this criterion.

Criterion 2

The AQP contains a number of control measures, which are enforceable requirements through the adoption of rules and regulations. A detailed description of rules and regulations that would apply to the proposed project is provided in Section 2.2, Regulatory Setting. For example, the proposed

[57] City of Visalia. 2014. General Plan Land Use Element. Website: https://www.visalia.city/civicax/filebank/blobdload.aspx?BlobID=30474. Accessed August 17, 2022.
[58] City of Visalia. Zoning Code, Table 17.25.030. Website: https://codelibrary.amlegal.com/codes/visalia/latest/visalia_ca/0-0-0-34305#JD_Chapter17.22. Accessed April 6, 2023.
[59] Calculation: (total building area/total site area) = 83.14 acres of building area/280 acres = 0.296 or 0.30.

project would be subject to Regulation VIII—Fugitive PM_{10} Prohibitions and Rule 9510—Indirect Source Review. In order to comply with Regulation VIII, the proposed project would be required to control fugitive dust by watering actively disturbed areas with water twice per day and covering all transport and hauling vehicles to reduce dust emissions. The proposed project would be required to comply with all applicable District rules and regulations through the issuance of applicable permits and applications and otherwise would be subject to District oversight pursuant to the applicable regulatory framework. Furthermore, consistency with the City of Visalia General Plan Policy AQ-P-2 would require the proposed project to implement applicable measures outlined in Regulation VIII. Therefore, the proposed project complies with this criterion and would not conflict with or obstruct implementation of the applicable air quality attainment plan for this criterion.

Criterion 3

A measure of determining whether the proposed project is consistent with the AQP is as follows: if the proposed project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay timely attainment of air quality standards or the interim emission reductions specified in the AQP, then the impact would be less than significant.

However, because of the region's nonattainment status for ozone, $PM_{2.5}$, and PM_{10}, if project-generated emissions of either of the ozone precursor pollutants (ROG and/or NOx), PM_{10}, or $PM_{2.5}$ would exceed the Valley Air District's applicable significance thresholds, then the proposed project would be considered to disrupt or hinder implementation of the relevant AQP control measures designed to attain the relevant air quality standards and thus would be in conflict with the attainment plans.

As discussed in Impact AIR-2 below, annual emissions of ROG, PM_{10}, and $PM_{2.5}$ associated with the construction of the proposed project would not exceed the Valley Air District's applicable significance thresholds after incorporation of mitigation. However, emissions of NO_X would exceed the Valley Air District's localized significance thresholds even after implementation of identified feasible mitigation.

Also as discussed in Impact AIR-2, operation of the proposed project would have the potential to exceed regional significance thresholds for ROG, PM_{10}, and $NO_{X,}$ and would have the potential to result in a violation of localized standards, even after incorporation of feasible mitigation. In addition, as shown in Impact AIR-2, the proposed project could result in maximum daily CO emissions that would violate applicable CO standards. However, the proposed project would not result in a CO hotspot as determined in Impact AIR-2.

Therefore, the proposed project has the potential to exceed applicable Valley Air District significance thresholds during construction and operation even after incorporation of the identified feasible mitigation. Thus, project impacts in this regard would remain significant and unavoidable. Accordingly, the proposed project would not comply with this criterion and therefore would be considered to disrupt or hinder implementation of AQP control measures designed to attain relevant air quality standards.

Impact Summary

The proposed project is consistent with the applicable growth assumptions within the AQP; therefore, the proposed project would result in a less than significant impact based on this criterion. In addition, the proposed project would be required to comply with the applicable AQP control measures; therefore, the proposed project would be less than significant for this criterion. However, given that the Air Basin is in nonattainment for certain criteria pollutants, the proposed project would be considered to conflict with or otherwise obstruct implementation of AQP because certain construction and operational emissions would exceed applicable thresholds even after implementation of feasible mitigation, thereby disrupting or hindering implementation of the AQP control measures designed to attain relevant air quality standards; therefore, the proposed project would result in significant and unavoidable impacts for this criterion.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

Implement MM AIR-2a through -2h (see Impact AIR-2).

Level of Significance After Mitigation

Significant and Unavoidable

Cumulative Impacts

Impact AIR-2:	**The proposed project would result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality (including releasing emissions which exceed quantitative thresholds for ozone precursors).**

Impact Analysis

Regional Emissions

Air pollutant emissions have regional effects and localized effects. This portion of the analysis assesses the regional effects of the proposed project's criteria pollutant emissions in comparison to applicable Valley Air District thresholds of significance for short-term construction activities and long-term operation of the proposed project.

The primary pollutants of concern during project construction and operation are ROG, NO_x, PM_{10}, and $PM_{2.5}$. The Valley Air District GAMAQI adopted in 2015 contains thresholds for CO, NO_x, ROG, SO_x, PM_{10}, and $PM_{2.5}$, which are being utilized here to assess the significance of the proposed project's impacts in this regard.[60]

Ozone is a secondary pollutant that can be formed miles from the source of emissions, through reactions of ROG and NO_X emissions in the presence of sunlight. Therefore, ROG and NO_X are termed ozone precursors. The Air Basin often exceeds the State and national ozone standards. Therefore, if the proposed project would emit a substantial quantity of ozone precursors, it may contribute to an

[60] San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts.

exceedance of the ozone standard. The Air Basin also exceeds air quality standards for PM_{10}, and $PM_{2.5}$; therefore, substantial project emissions may contribute to an exceedance for these pollutants as well. The Valley Air District's annual emission significance thresholds used for this analysis define the substantial contribution for both operational and construction emissions as follows:

- 100 tons per year CO
- 10 tons per year NO_x
- 10 tons per year ROG
- 27 tons per year SO_x
- 15 tons per year PM_{10}
- 15 tons per year $PM_{2.5}$

Construction Emissions

The proposed project's unmitigated construction emissions are shown for all years of construction, the years 2024 through 2028 in Table 16. It should be noted that unmitigated construction emissions incorporate the basic dust control measures required under District Rule 8021, which requires that vehicle speeds on unpaved roads and surfaces be reduced to no more than 15 miles per hour and exposed construction areas are watered at a minimum twice per day during earthmoving activities. The CalEEMod considers these basic dust control measures as "mitigation measures"; however, they are required for all construction activity in the Valley Air District and thus are considered as a project design requirement for the proposed project. For further information regarding the assumptions used in estimating these emissions, please refer to Section 4, Modeling Parameters and Assumptions.

Table 16: Construction Air Pollutant Emissions (Unmitigated)

Year	Emissions (approximate tons per year)[1]					
	ROG	NO_x	CO	SO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
2024 Construction						
On-site						
Demolition	0.03	0.31	0.30	<0.01	0.01	0.01
Site Preparation	0.24	2.45	1.69	<0.01	0.11	0.10
Grading	0.05	0.53	0.42	<0.01	0.02	0.02
Building Construction	2.64	21.11	26.84	0.07	0.79	0.75
Paving	0.20	1.00	1.57	<0.01	0.05	0.05
Architectural Coating	3.95	0.18	1.06	<0.01	0.01	0.01
Off-site Improvements						
Paving	0.03	0.10	0.15	<0.01	<0.01	<0.01
Architectural Coating	0.13	0.01	0.03	<0.01	<0.01	<0.01
2024 Construction Subtotal	*7.28*	*25.69*	*32.06*	*0.08*	*1.00*	*0.94*

Year	Emissions (approximate tons per year)[1]					
	ROG	NO_x	CO	SO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
2025 Construction						
Grading	0.40	4.22	3.62	0.01	0.15	0.14
Building Construction	1.01	8.04	10.69	0.03	0.27	0.25
Paving	0.11	0.37	0.64	0.01	0.02	0.01
Architectural Coating	1.22	0.05	0.31	<0.01	<0.01	<0.01
2025 Construction Subtotal	*2.74*	*12.68*	*15.25*	*0.04*	*0.44*	*0.41*
2026 Construction						
Grading	0.27	2.83	2.42	0.01	0.10	0.09
Building Construction	0.87	6.90	9.10	0.03	0.22	0.21
Architectural Coating	2.41	0.06	0.26	<0.01	<0.01	<0.01
2026 Construction Subtotal	*3.55*	*9.78*	*11.78*	*0.04*	*0.32*	*0.30*
2027 Construction						
Building Construction	1.33	10.80	14.05	0.04	0.35	0.33
Paving	0.05	0.47	0.82	<0.01	0.02	0.02
Architectural Coating	1.47	0.05	0.26	<0.01	<0.01	<0.01
2027 Construction Subtotal	*2.85*	*11.33*	*15.13*	*0.04*	*0.38*	*0.36*
2028 Construction						
Building Construction	0.31	2.55	3.28	0.01	0.08	0.08
Architectural Coating	1.11	0.04	0.19	<0.01	<0.01	<0.01
2028 Construction Subtotal	*1.42*	*2.59*	*3.47*	*0.01*	*0.09*	*0.09*
Entire Construction Duration (2024-2028)						
Maximum Annual Construction Emissions[2]	**7.28**	**25.69**	**32.06**	**0.08**	**1.00**	**0.94**
Valley Air District Significance threshold (tons/year)	10	10	100	27	15	15
Exceed threshold—significant impact?	No	Yes	No	No	No	No

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases
SO_X = sulfur oxides
[1] PM_{10} and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive PM_{10} Prohibitions.
[2] The maximum annual emissions would occur during the 2024 year.

Year	Emissions (approximate tons per year)[1]					
	ROG	NO_x	CO	SO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
Source of Emissions: CalEEMod Output (Appendix A). Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed September 13, 2022.						

As shown in Table 16, the unmitigated construction emissions assuming the sequential construction of phases would exceed the significance thresholds for NO_X. In addition, if there were concurrent implementation of construction phases this level of activity would exceed the significance threshold for ROG and NO_X, which reflects the reasonable scenario maximum annual emissions. Therefore, construction emissions would be potentially significant. As a result, the proposed project would need to include the following construction mitigation measures (MM):

- MM AIR-2a–Use and Operation of Tier IV or Equivalent Construction Equipment
- MM AIR-2b–Use of Low VOC Architectural Coating Materials

MM AIR-2a would require the construction contractors to use Tier IV or equivalent construction equipment, which is the most energy efficient class of construction equipment available, for all construction equipment above 50 horsepower. In addition, the use of Tier IV construction equipment would support California's clean air goals by reducing construction emissions of NO_X and PM_{10} and $PM_{2.5}$. Also, MM AIR-2a would allow for the project applicant to consider using near zero-emission or electric construction equipment if that type of equipment is commercially available at the time of construction activity. If near zero-emission or electric construction equipment is utilized emissions would be further reduced, but for the purposes of presenting a conservative analysis only the use of Tier IV construction equipment was considered. Furthermore, MM AIR-2a would limit idling of construction equipment to a maximum of five minutes. In addition, MM AIR-2b–Use of Low VOC Architectural Coating Materials would be included to prevent potential impacts related to construction ROG emissions and would require that all paint or architectural coating materials used on building structures during construction not exceed 10 grams of VOC per liter of coating. MM AIR-2b would reduce ROG emissions because the architectural coating phase of construction emits the most ROG (also called VOCs). As shown in Table 17, with implementation of MM AIR-2a and -2b, assuming the sequential implementation of phases, ROG and NO_X emissions would be reduced below the Valley Air District 10 tons per year threshold.

Table 17: Annual Construction Air Pollutant Emissions (Mitigated)

Year	Emissions (tons per year)[1]					
	ROG	NO_x	CO	SO_x	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
2024 Construction						
On-site						
Demolition	0.01	0.03	0.35	<0.01	<0.01	<0.01
Site Preparation	0.05	0.19	1.92	<0.01	0.01	0.01
Grading	0.01	0.11	0.50	<0.01	<0.01	<0.01
Building Construction	1.46	7.68	28.65	0.07	0.14	0.14
Paving	0.13	0.13	1.85	<0.01	<0.01	<0.01
Architectural Coating	1.30	0.09	1.06	<0.01	<0.01	<0.01
Off-site Improvements						
Paving	0.02	0.01	0.18	<0.01	<0.01	<0.01
Architectural Coating	0.13	<0.01	0.03	<0.01	<0.01	<0.01
2024 Construction Subtotal	*3.11*	*8.25*	*34.54*	*0.08*	*0.15*	*0.15*
2025 Construction						
Grading	0.12	1.01	4.49	0.01	0.02	0.02
Building Construction	0.59	3.27	11.42	0.03	0.05	0.05
Paving	0.08	0.06	0.76	<0.01	<0.01	<0.01
Architectural Coating	0.40	0.02	0.31	<0.01	<0.01	<0.01
2025 Construction Subtotal	*1.19*	*4.36*	*16.98*	*0.04*	*0.07*	*0.07*
2026 Construction						
Grading	0.08	0.67	3.01	0.01	0.01	0.01
Building Construction	0.54	3.08	9.69	0.03	0.05	0.05
Architectural Coating	0.84	0.02	0.26	<0.01	<0.01	<0.01
2026 Construction Subtotal	*1.46*	*3.77*	*12.96*	*0.03*	*0.06*	*0.06*
2027 Construction						
Building Construction	0.79	4.61	15.01	0.04	0.07	0.07
Paving	0.02	0.07	0.97	<0.01	<0.01	<0.01
Architectural Coating	0.45	0.02	0.26	<0.01	<0.01	<0.01
2027 Construction Subtotal	*1.25*	*4.70*	*16.24*	*0.04*	*0.07*	*0.07*
2028 Construction						
Building Construction	0.18	1.08	3.51	0.01	0.02	0.02
Architectural Coating	0.34	0.01	0.19	<0.01	<0.01	<0.01

Year	Emissions (tons per year)[1]					
	ROG	NO_X	CO	SO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
2028 Construction Subtotal	*0.52*	*1.10*	*3.70*	*0.01*	*0.02*	*0.02*
Entire Construction Duration (2024-2028)						
Maximum Annual Construction Emissions[2]	**3.10**	**8.22**	**34.18**	**0.08**	**0.15**	**0.15**
Significance threshold	10	10	100	27	15	15
Exceed threshold—significant impact?	No	No	No	No	No	No

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases
SO_X = sulfur oxides
[1] PM_{10} and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive PM_{10} Prohibitions.
[2] The maximum annual emissions would occur during the 2024 year.
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF.

Worst-case, Concurrent Construction Scenario

For the purpose of providing a conservative analysis in the event that construction sequence occurs earlier than anticipated, a worst-case scenario where all construction activity would overlap (i.e., construction of Phases 1, 2, and 3 occurs concurrently from March 2024 to March 2025) is modeled to account for the maximum criteria pollutant emissions. The scenario incorporates MM AIR-2a that all construction equipment meets Tier IV final off-road emission standards, if commercially available. The annual emissions and maximum emissions are summarized in Table 18. To note that due to the size of the proposed project (284 acres), it is highly unlikely that the three phases would occur at the same time and the overall construction can be completed in 30 months. However, if construction Phases 1, 2, and 3 were to overlap (i.e., concurrent phasing), the proposed project would exceed Valley Air District thresholds of 10 tons per year for NO_X even with implementation of MM AIR-2a. Moreover, no other feasible mitigation measures exist that could reduce NO_X emissions further because the majority of emissions would be due to the amount of construction equipment in use. Even with MM AIR-2a, the concurrent schedule would result in such a large amount of construction activity occurring at the same time that it would not be possible to reduce the resulting NO_X emissions to below thresholds. Therefore, construction emission impacts would be significant and unavoidable.

Table 18: Worst-case Scenario Construction Air Pollutant Emissions (Mitigated)

Year	Emissions (tons per year)[1]					
	ROG	NO_x	CO	SO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
Off-site Improvement 2024	0.15	0.01	0.21	<0.01	<0.01	<0.01
Overall Site Preparation 2024-2026	0.26	2.01	10.27	0.01	0.031	0.031
Phase 1 2024-2025	3.65	9.85	39.10	0.09	0.180	0.177
Phase 2 2024-2025	7.24	4.60	15.38	0.03	0.072	0.071
Phase 3 2024-2025	7.81	6.02	21.02	0.04	0.098	0.096
Maximum Annual Construction Emissions[2]	**17.79**	**16.81**	**64.29**	**0.15**	**0.284**	**0.280**
Significance threshold	**10**	**10**	**100**	**27**	**15**	**15**
Exceed threshold—significant impact?	**Yes**	**Yes**	No	No	No	No
Entire Construction Duration with Overlapping of Phases 1, 2, and 3 (2024-2026)						
Worst-case Scenario Total Construction Emissions[3]	**19.12**	**22.49**	**85.97**	**0.17**	**0.381**	**0.376**

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases
SO_X = sulfur oxides
[1] PM_{10} and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive PM_{10} Prohibitions.
[2] The maximum annual emissions would occur during the 2024 year.
[3] This scenario accounts for the overlapping of Phases 1, 2, and 3 (i.e., concurrent phasing).
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed September 13, 2022.

Operational Emissions

Operational emissions occur over the lifetime of the proposed project are from two main sources: area sources and motor vehicles (i.e., mobile sources). Construction is scheduled to be completed in several phases starting with Phase 1, which would be completed in 2025, Phase 2 in 2026, and Phase 3 in 2028, although for purposes of a conservative analysis, this assessment also evaluates impacts associated with concurrent phasing. The Valley Air District considers construction and operational emissions separately when making significance determinations.

For assumptions in estimating the emissions, please refer to Section 4, Modeling Parameters and Assumptions. The emissions modeling results for project operation are summarized in Table 19.

Table 19: Operational Air Pollutant Emissions (Unmitigated)

Source	Emissions (approx. tons per year)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Phase 1						
Area	8.00	<0.01	0.02	<0.01	<0.01	<0.01
Energy	0.13	1.18	0.99	0.01	0.09	0.09
Mobile (Passenger Vehicles)	3.09	2.20	25.91	0.06	5.60	1.43
Mobile (Trucks)	0.50	40.28	7.81	0.32	9.24	2.90
Phase 1 Subtotal	11.72	43.66	34.73	0.39	14.93	4.42
Phase 2						
Area	3.66	<0.01	0.01	<0.01	<0.01	<0.01
Energy	0.07	0.66	0.55	<0.01	0.05	0.05
Mobile (Passenger Vehicles)	4.45	2.06	24.07	0.04	3.83	0.98
Mobile (Trucks)	0.21	17.25	3.41	0.14	4.11	1.29
Phase 2 Subtotal	8.39	19.97	28.04	0.18	7.99	2.32
Phase 3						
Area	3.91	<0.01	0.01	<0.01	<0.01	<0.01
Energy	0.07	0.61	0.51	<0.01	0.05	0.05
Mobile (Passenger Vehicles)	1.31	0.82	10.59	0.03	2.78	0.71
Mobile (Trucks)	0.21	16.94	3.43	0.14	4.33	1.36
Phase 3 Subtotal	5.5	18.37	14.54	0.17	7.16	2.12
Project Buildout (Phases 1–3)						
Total	25.79	83.1	91.58	0.79	35.13	10.15
Significance threshold	10	10	100	27	15	15
Exceed threshold—significant impact?	Yes	Yes	No	No	Yes	No

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases
SO_X = sulfur oxides
Area source emissions include emissions from natural gas, landscape, and painting.
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF.

As shown in Table 19, regional operational emissions would exceed the Valley Air District's threshold of significance for ROG, NO_X, and PM_{10}; a potentially significant impact. The proposed project would not exceed thresholds for CO, SO_X, or $PM_{2.5}$.

As a result, this analysis has identified mitigation to help reduce emissions in this regard. MM AIR-2c, -2d, -2e, -2f, and -2g would contribute toward NO_X emissions reductions. During operation of the proposed project, it is likely that on-site off-road and on-road service equipment, such as forklifts, pallet jacks, and flat trucks could be used to move goods throughout the project site. These sets of equipment typically include internal combustion engines that would emit NO_X during use. MM AIR-2c would require (1) that all on-site off-road and on-road service equipment be zero-emission or all-electric, and (2) that all project buildings would be designed to support the use of zero-emission or all-electric service equipment. By utilizing zero-emission on-site service equipment, the proposed project would reduce NO_X emissions to the extent feasible that would otherwise occur.

As shown in Table 19, another contribution of NO_X emissions would be from passenger vehicles due to employees traveling to and from the project site. MM AIR-2d would require each project applicant, in connection with an individual specific development proposal, to include infrastructure for EV charging stations into a minimum of 20 percent of all vehicle parking spaces (including parking for trucks) for the subject proposal, consistent with the applicable CALGreen Code Tier 1 Nonresidential Mandatory Measure (Section A5.106.5.3). Although this measure would not directly include functioning charging stations, the installation of the infrastructure needed to support charging stations would allow for the future charging stations to be installed. Furthermore, MM AIR-2d would require the design of the buildings' electrical room to hold additional panels that may be needed to supply power for the future installation of EV truck charging stations on-site. By providing EV charging infrastructure, this measure would allow for the installation of charging stations, which would provide a convenient location for employees to charge electric vehicles and incentivize employees to use electric vehicles.

MM AIR-2e would require the relevant project applicant to include signage and pavement markings along project site driveways and internal roadways to clearly identify on-site circulation patterns, minimize unnecessary on-site vehicle travel, and reduce vehicle idling, which would otherwise result in excessive NO_X and PM_{10} emissions. As stated previously, the majority of operational NO_X and PM_{10} emissions would be from mobile sources and any reduction in operational vehicle travel would reduce the greatest share of the proposed project's operational emissions.

MM AIR-2f would require the proposed project to include a vegetative barrier along the south and east property boundaries. As stated in the Notice of Preparation (NOP) comment letter from the Valley Air District dated September 28, 2022, vegetative barriers can reduce exposure of gaseous pollutants on sensitive receptors. Vegetative barriers utilize the natural process of photosynthesis, where plants intake air particles including gaseous pollutants, such as NO_X, and release oxygen. By including a vegetative barrier along the south and east property boundaries, MM AIR-2f would reduce exposure of NO_X and PM_{10} emissions on nearby homes and sensitive receptors to the southeast.

Finally, MM AIR-2g would require each project applicant, in connection with an individual specific development proposal, to consider the feasibility of entering into a Voluntary Emission Reduction Agreement (VERA) with the Valley Air District in order to reduce ROG, NO_X, and PM_{10} emissions. A VERA is a potential mitigation measure that provides pound-for-pound mitigation of emissions that exceed applicable thresholds. A VERA reduces construction and operational emissions through a process that develops, funds, and implements emission reduction projects, with the Valley Air District serving as the administrator of the emissions reduction projects and verifier of the successful mitigation effort. For example, funds generated by a VERA can be used to provide grants to municipalities, such as the City of Visalia, to replace diesel-powered transit vehicles with zero-emission vehicles. In addition, a VERA would give priority to emissions reduction projects near the project site to reduce emissions near the source. However, it should be noted a VERA is an entirely voluntary measure and is not required by the Valley Air District or any regulation. Also, for purposes of CEQA, because the terms of a specific VERA are not currently known, whether this would be feasible is speculative at this time.

Moreover, the proposed project would be subject to Valley Air District Rule 9510 – Indirect Source Review, because the proposed project would exceed the 25,000-square-foot light industrial District applicability threshold for this rule. This rule aims to reduce the impact of NO_x and PM_{10} emissions from growth within the Air Basin. As a result, compliance with the Indirect Source Review application would result in further reductions in NO_x and PM_{10}.

However, at the time of this report, there is not sufficient information to guarantee that the proposed project could feasibly implement the reduction measures associated with these mitigation measures. Moreover, the project applicant would not have ownership over the operational truck fleets because they would be owned and operated by third party vendors, and as such, the proposed project applicant could not mitigate the impacts of the primary source of operational emissions. Therefore, in the absence of certainty that the identified mitigation can be feasibly mitigated such that project impacts would be reduced to a less than significant level, impacts would remain significant and unavoidable due to NO_X during construction and ROG, NO_X, PM_{10} during operation of the proposed project.

CO Hotspot Analysis

A CO hotspot represents a condition wherein high concentrations of CO may be produced by motor vehicles accessing a congested traffic intersection under heavy traffic volume conditions. It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when idling at intersections. Accordingly, vehicle emissions standards have become increasingly more stringent to help remedy this impact.

The analysis prepared for CO attainment in the South Coast Air Basin (SoCAB) by the SCAQMD has been used to assist in evaluating potential for CO exceedances in other air basins. Although the SoCAB and the SCAQMD would not be the applicable air basin or air district for the proposed project, utilizing this guidance is appropriate here because CO exceedances are caused by idling vehicles and regardless of air district the same causes of CO exceedances would occur throughout the State and at the project site. For example, any project-generated vehicles trips would result in idling of passenger vehicles or trucks at the project site and on adjacent roadways that could lead to

a CO exceedance. The CO hotspot analysis contained in the SCAQMD 1992 CO Plan is used to determine potential CO hotspot impacts from the proposed project, because by using the 1992 CO Plan as a worst-case scenario, the proposed project can measure CO impacts against intersections that experienced significantly more vehicle traffic than adjacent to the proposed project. The 1992 CO Plan is used as a worst-case scenario because it included a CO hot spot analysis for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. Subsequently the CO Plan determined that no CO hotspot would occur even with 100,000 vehicles per day at this one intersection.

As described in Table 11, the proposed project would generate up to 21,409 daily vehicle trips. According to the Visalia General Plan EIR, Chapter 3.2 Transportation, Table 3.2-6, Shirk Avenue would experience at most 24,900 Average Annual Daily Trips (AADT).[61] As a result, the addition of the proposed project's anticipated actual trips would result in up to 46,000 daily vehicle trips, which significantly lower than the traffic volumes analyzed in the 1992 CO Plan. Therefore, none of the intersections near the project site would have peak-hour traffic volumes exceeding those at the intersections modeled in the 1992 CO Plan, nor would there be any reason unique to the local meteorology to conclude that this intersection would yield higher CO concentrations if modeled in detail because the project site is not located in an area where air flow would be severely restricted, such as a tunnel or canyon. In conclusion, the addition of the proposed project's daily trips would not generate a CO hotspot at local intersections and operational CO impact would be less than significant.

Construction Ambient Air Quality Analysis

Valley Air District Rule 2201 requires that an Ambient Air Quality Analysis (AAQA) be conducted for a project when that project's maximum daily emissions exceed 100 pounds for any single criteria or precursor pollutant after incorporation of all mitigation.

Emissions occurring at or near the project site have the potential to create a localized impact, also referred to as an "air pollutant hotspot." Localized emissions are considered significant if, when combined with background emissions, they would result in exceedance of any health-based air quality standard. In locations that already exceed standards for these pollutants, the focus of the significance conclusion is based on whether a project's individual significant impact level, when combined with other cumulative development, would represent a cumulatively considerable contribution to an existing violation of an air quality standard.

The Valley Air District's GAMAQI includes screening thresholds for identifying projects that need detailed analysis for localized impacts. Projects with on-site emission increases from construction activities or operational activities that exceed the 100 pounds per day screening level of any criteria pollutant after compliance with Rule 9510 and implementation of all enforceable mitigation

[61] City of Visalia. General Plan EIR, Chapter 3.2 Transportation.

measures would require preparation of an AAQA. The criteria pollutants of concern for localized impact in the Air Basin are PM_{10}, $PM_{2.5}$, NO_X, and CO.

An analysis of maximum daily emissions during construction and operation was conducted to determine whether emissions would exceed the 100 pounds per day screening threshold for any pollutant of concern. The results of the analysis are presented in Table 17, Table 18, and Table 19.

Table 20: Maximum On-site Daily Air Pollutant Emissions During Construction (Unmitigated)

Year	On-site Emissions (approx. pounds per day)[1]			
	NO_x	CO	PM_{10}	$PM_{2.5}$
2024	235.24	276.62	22.03	14.82
2025	273.78	360.14	19.42	12.86
2026	92.02	112.46	9.38	5.36
2027	93.78	126.70	5.50	3.89
2028	86.40	115.38	5.38	3.62
Maximum Daily Emissions	**273.78**	**360.14**	**22.03**	**14.82**
Screening threshold	100	100	100	100
Exceed screening threshold?	Yes	Yes	No	No

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
[1] PM_{10} and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive PM_{10} Prohibitions.
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF.
The construction schedule is based on Table 8 and represents a conservative estimate.

As noted in Table 19, emissions of NO_X and CO would exceed the applicable screening threshold prior to the application of mitigation. Implementation of MM AIR-2a would require each applicant, in connection with an individual specific development proposal, to provide documentation to the City of Visalia demonstrating that all off-road diesel-powered construction equipment greater than 50 horsepower meets EPA or ARB Tier 4 Final off-road emissions standards, to the extent commercially available. An analysis of maximum daily emissions during construction after incorporation of MM AIR-2a was conducted to determine whether emissions would exceed the 100 pounds per day screening threshold for any pollutant of concern. As shown in the summarized results presented in Table 20, with incorporation of identified mitigation, the proposed project's construction emissions would not exceed the appliable daily emission threshold for NO_X but would continue to exceed the applicable daily emission threshold for CO. It should be noted that if project

construction moves to later years, resulting emissions are anticipated to reduce because equipment efficiency and fuel content standards generally improve with each year and construction fleet operators periodically replace old equipment with new, more efficient equipment. Therefore, the proposed project would exceed the applicable screening threshold for CO after inclusion of MM AIR-2a. However, no additional, feasible mitigation would be applicable to further reduce construction CO emissions because the primary source of CO emissions is due to the operation of fossil fuel powered construction equipment. Despite the implementation of MM AIR-2a requiring all construction equipment meet Tier IV or equivalent standards, all construction equipment would still emit CO and impacts would be significant and unavoidable. Electric construction equipment can be used in lieu of Tier IV equipment and would reduce CO emissions. However, because the availability of electric off-road equipment is limited compared to other clean equipment alternatives (such as Tier IV), it cannot be assumed that the project could replace enough off-road equipment with electric off-road equipment to reduce impacts to a less than significant level during construction.

Table 21: Maximum On-site Daily Air Pollutant Emissions During Construction (Mitigated)

Year	On-site Emissions (pounds per day)[1]			
	NO_x	CO	PM_{10}	$PM_{2.5}$
2024	53.52	302.72	13.21	6.64
2025	74.08	391.72	10.36	4.46
2026	21.03	96.09	6.40	5.04
2027	27.75	138.48	2.67	1.10
2028	26.71	124.47	2.67	1.10
Maximum Daily Emissions	**74.08**	**391.72**	**13.21**	**6.64**
Screening threshold	100	100	100	100
Exceed screening threshold?	No	Yes	No	No

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
PM_{10} and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive PM_{10} Prohibitions.
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF.

Operational Ambient Air Quality Analysis

Operational emissions include emissions generated on-site by area sources such as natural gas combustion and landscape maintenance, and on-site travel from motor vehicles accessing the project. The maximum on-site mobile emissions include vehicle ignition start up, idling, and travel across the project site internal roadways. As described in the CalEEMod Notes in Appendix A, the operational localized significance threshold modeling analysis analyzed the maximum possible

distance that a vehicle could travel on-site during operation, which is approximately 2.8 miles. This distance was determined by measuring from the northwest corner of the project site to the southeast corner of the project site along proposed roadways, which would be the longest, most direct route a vehicle would travel. Maximum daily on-site emissions during project operations are shown below in Table 22.

Table 22: Maximum On-site Daily Air Pollutant Emissions During Operations (Unmitigated)

Source	On-site Emissions (pounds per day)[1]			
	NO_x	CO	PM_{10}	$PM_{2.5}$
Area	<0.01	0.39	<0.01	<0.01
Energy	12.99	10.91	0.99	0.99
Mobile (Passenger Vehicles)	10.60	137.40	10.91	2.81
Mobile (Trucks)	56.14	29.48	5.57	1.75
Total	79.73	177.79	17.47	5.55
Screening threshold	100	100	100	100
Exceed screening threshold?	No	Yes	No	No

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF.

The proposed project would exceed the Valley Air District screening thresholds for CO but would not exceed other operational screening thresholds. As shown in Table 22, the majority of CO emissions would be from mobile sources, such as passenger vehicles driven by employees to access the project site and trucks delivering and receiving goods. For example, it is reasonable to assume that the majority of employees would drive personal vehicles to the project site, which in order to reduce emissions, would require zero-emission vehicles. However, implementing such a measure would not be enforceable, due to a lack of realistic and legally available enforcement mechanisms the City could reasonably rely upon to enforce such a measure for the life of the proposed project. As presented previously, if MM AIR-2c through -2f were implemented, this would reduce operational emissions, but would not reduce emissions below the applicable thresholds. As a result, since feasible mitigation would not reduce project operational emissions below the applicable thresholds, the proposed project's operational impacts would be significant and unavoidable.

Impact Summary

Regional emissions generated by the proposed project would exceed applicable thresholds despite compliance with all applicable rules, regulations, and mitigation measures during construction and

operation. Localized operational emissions would also present a potentially significant impact after incorporation of identified mitigation. Both of these impacts would be significant and unavoidable given the lack of certainty with respect to implementation of feasible mitigation.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

MM AIR-2a Use of Tier IV or Tier IV Equivalent Construction Off-Road Equipment

Before a construction permit is issued for the proposed project, the project sponsors shall submit construction emissions minimization plans to the City of Visalia for review and approval. The construction emissions minimization plans shall detail compliance with the following requirements:

(1) Subject to same being commercially available, all off-road equipment utilized in connection with the subject individual development proposal shall have engines that meet either EPA or ARB Tier IV Final off-road emission standards. Provided, however, if engines that comply with Tier IV Final off-road emission standards are not commercially available, then the construction contractor shall use the next cleanest piece of off-road equipment (e.g., Tier IV Interim) available. For purposes of this mitigation measure, "commercially available" shall mean the availability of Tier IV Interim engines taking into consideration factors such as (i) critical-path timing of construction; (ii) costs of utilizing same are commercially practicable; and (iii) geographic proximity to the project site of equipment. The relevant contractor's provision to the City of letters from at least two rental companies for each piece of off-road equipment that reasonably documents the lack of commercially available off-road equipment shall be deemed sufficient for purposes of complying with this mitigation measure. The project applicant and contractor shall consider the use of near zero-emission or electric construction equipment if that type of equipment is commercially available at the time of grading permit submittal.
(2) Post signage on the project site stating that construction equipment idling times shall not exceed five minutes.

MM AIR-2b Super-Compliant Architectural Coating During Construction

Prior to issuance of a grading permit in connection with an individual specific development proposal for the proposed project, the relevant project sponsor shall submit to the City of Visalia Planning Division construction contracts and/or subcontracts reasonably documenting that all architectural coating material utilized in connection with the subject individual specific development proposal would not exceed 10 grams of volatile organic compound (VOC) per liter of coating.

To satisfy the above, the relevant project sponsor shall include in any construction contracts and/or subcontracts for the subject individual specific development proposal a requirement that all interior and exterior architectural coatings used in project construction meet the "super-compliant" coating VOC content standard of 10 grams or less of VOC per liter of coating. The relevant project sponsor shall also specify in the subject construction contracts and/or subcontracts the requirement to use high-volume, low-pressure spray guns during coating applications to reduce coating waste.

MM AIR-2c Electric or Zero-Emission On-site Off-Road and On-Road Service Equipment

Prior to issuance of the construction grading permit in connection with an individual specific development proposal for the proposed project, the relevant project sponsor shall provide reasonable documentation to demonstrate to the City of Visalia Planning Division that all on-site off-road and on-road service equipment will utilize zero-emission technology, subject to the same being commercially practicable. Additionally, the relevant project sponsor shall provide reasonable documentation to the City of Visalia Planning Division that all proposed buildings in connection with the subject individual specific development proposal that would use on-site service equipment will be designed to include electric outlets to equipment support the use of all-electric or zero-emission on-site service equipment, subject to the same being commercially practicable.

MM AIR-2d Electric Vehicle Charging Infrastructure

Prior to issuance of the grading or building permit in connection with an individual specific development proposal for the proposed project, whichever occurs first, the relevant project sponsor shall provide reasonable documentation to the City of Visalia Planning Division demonstrating that the subject individual specific development proposal shall incorporate infrastructure for electric vehicle (EV) charging stations consistent with the most recently adopted California Green Building Efficiency Standards Code Nonresidential Mandatory Measure (Section A5.106.5.3). To satisfy the foregoing, EV charging spaces must provide electrical vehicle charging infrastructure to support future installation of EV supply equipment and shall meet the applicable design space requirements of California Green Building Efficiency Standards Code Section 5.106.5.3.

Furthermore, the buildings' electrical room shall be sufficiently sized to hold additional panels that may be needed to supply power for the future installation of electric vehicle (EV) truck charging stations on the site. Conduit should be installed from the electrical room to tractor trailer parking spaces in a logical location(s) on the site determined by the project applicant during construction document plan check, for the purpose of accommodating the future installation of EV truck charging stations at such time this technology becomes commercially available and the buildings are being served by trucks with electric-powered engines.

MM AIR-2e On-site Signage and Pavement Markings

In connection with an individual specific development proposal for the proposed project, whichever occurs first, the relevant project sponsor shall provide reasonable documentation to the City of Visalia Planning Division demonstrating signage and pavement marking that show on-site circulation routes have been or will be included along the relevant portions of the project site driveways and internal roadways.

MM AIR-2f Vegetative Barrier

Prior to issuance of the grading or building permit in connection with an individual specific development proposal for the proposed project, whichever occurs first, the relevant project sponsor shall provide reasonable documentation to the City of Visalia Planning Division demonstrating the inclusion of a vegetative barrier along the south and east property boundaries of the project site. Prior to issuance of first occupancy permit, the project applicant shall demonstrate to the Visalia Planning Division the installation of the vegetative barrier at the described locations.

MM AIR-2g Voluntary Emission Reduction Agreement

Prior to issuance of the grading or building permit in connection with an individual specific development proposal for the proposed project, whichever occurs first, the relevant project sponsor shall consult with the City of Visalia Planning Division about the feasibility of entering into a Voluntary Emissions Reduction Agreement (VERA) with the Valley Air District.

Level of Significance After Mitigation

Significant and Unavoidable

5.2.2 - Sensitive Receptors

Impact AIR-3:	**The proposed project would expose sensitive receptors to substantial pollutant concentrations.**

Impact Analysis

Sensitive Receptors

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. The Valley Air District considers a sensitive receptor to be a location that houses or attracts children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools. The closest existing and planned sensitive receptors located near the project site include:

- Single-family residential homes located directly to the southeast across the intersection of Riggin Avenue and Shirk Street, with the closest home approximately 160 feet to the southwest.

- Denton Elementary School located approximately 2,200 feet to the southwest. The City of Visalia General Plan Land Use Element[62] designates an area as Multi-Family Residential approximately 2,700 feet to the east of the project site, which could result in new sensitive receptors.
- The Carleton Acres Specific Plan area located to the east of the North Shirk Avenue and West Riggin Avenue intersection, which could result in up to 3,368 residential units to the east of the project site.

Construction: ROG

During construction, ROG is emitted during the application of architectural coatings (painting). The amount emitted is dependent on the amount of ROG (or VOC) in the paint. ROG emissions are typically an indoor air quality health hazard concern rather than an outdoor air quality health hazard concern because of the rapid dispersion of ROGs into the atmosphere when applied outdoors. Whereas indoors the enclosed spaces prevent the gases from escaping into the atmosphere and can accumulate in high concentrations. Furthermore, no sensitive receptors would be located on-site during construction that could be exposed to high levels of ROGs such that they would present a health risk concern. Therefore, exposure to ROG during architectural coatings is a less than significant health impact.

There are three types of asphalt that are typically used in paving: asphalt cements, cutback asphalts, and emulsified asphalts. However, Valley Air District Rule 4641 prohibits the use of the following types of asphalt: rapid cure cutback asphalt; medium cure cutback asphalt; slow cure asphalt that contains more than 0.5 percent of organic compounds that evaporate at 500°F or lower; and emulsified asphalt containing organic compounds, in excess of 3 percent by volume, that evaporate at 500°F or lower. An exception to this is medium cure asphalt when the National Weather Service official forecast of the high temperature for the 24-hour period following application is below 50°F.

The acute (short-term) health effects from worker direct exposure to asphalt fumes include irritation of the eyes, nose, and throat. Other effects include respiratory tract symptoms and pulmonary function changes. The studies were based on occupational exposure of fumes. Residents are not in the immediate vicinity of the fumes because asphalt paving activity would be temporary and only occur on the project site and in areas where roadway improvements would occur as part of construction activity. Consequently, exposure to asphalt fumes could only occur during the paving phase of construction which would only occur during permissible construction hours and would end once construction is complete; therefore, they would not be subjected to concentrations high enough to evoke a negative response. In addition, the restrictions that are placed on asphalt in the San Joaquin Valley by the Valley Air District reduce ROG emissions from asphalt and exposure because they reduce odor and fumes from burning of asphalt material. The impact to nearby sensitive receptors from ROG during construction is less than significant.

[62] City of Visalia. General Plan Land Use Interactive Map. Website: https://www.visalia.city/depts/community_development/planning/gp.asp. Accessed January 17, 2023.

Operation: ROG

During operation, ROG would be emitted primarily from motor vehicles and the use of consumer products. Direct exposure to ROG from project motor vehicles would not result in health effects, because the ROG would be distributed across miles of roadway and disperse rapidly into the air. In order for a significant impact to occur motor vehicles would need to be operating within an enclosed area, such as a tunnel or freeway overpass, adjacent to sensitive receptors, where ROGs would be highly concentrated. As a result, nearby residents would not be at risk from ROGs emitted by motor vehicles because they are separated by existing roadways and located in neighborhoods with no enclosed spaces where motor vehicles would operate and ROGs. In addition, ROG emissions generated by the use of consumer products would be limited to the immediate area in which they are used on-site and would only occur during activities that use those products, such as facility cleaning activities. Nearby sensitive receptors would not be exposed to significant amounts of consumer product ROGs during operation of the proposed project because residents would not be located on the project site and consumer product activities would only occur during scheduled cleaning activities. Therefore, nearby sensitive receptors would not be exposed to substantial ROG concentrations during project operations.

Construction: NO_X, PM_{10}, $PM_{2.5}$

As discussed in Impact AIR-2, localized unmitigated concentrations of PM_{10}, and $PM_{2.5}$ generated during project construction would not exceed the ambient air quality standards, while localized concentrations of NO_X would not exceed ambient standards after incorporation of MM AIR-2a. However, localized concentrations of CO would exceed the 100 pounds per day ambient air quality standard set by the Valley Air District, even after the incorporation of mitigation. Therefore, CO emissions during construction would exceed the significance thresholds after incorporation of mitigation and would be expected to result in concentrations that would exceed ambient standards or contribute substantially to an existing exceedance of an ambient air quality standard. As a result, because these impacts could not be feasibly mitigated to a less than significant level for the reasons discussed above, impacts would be significant and unavoidable.

Operation: NO_X, PM_{10}, $PM_{2.5}$,

As discussed in Impact AIR-2, localized concentrations of NO_X, PM_{10}, and $PM_{2.5}$ would not exceed the ambient air quality standards. However, localized concentrations of CO during operations would exceed the 100 pounds per day ambient air quality standard set by the Valley Air District. Therefore, CO emissions during construction would exceed the significance thresholds even after incorporation of mitigation and would be expected to result in concentrations that would exceed ambient standards or contribute substantially to an existing exceedance of an ambient air quality standard. As a result, because these impacts could not be feasibly mitigated to a less than significant level for the reasons discussed above, impacts would be significant and unavoidable.

Toxic Air Contaminants

Project construction would involve the use of diesel-fueled vehicles and equipment that emit DPM, which is considered a TAC. The Valley Air District's applicable threshold of significance for TAC emissions is an increase in cancer risk for the maximally exposed individual of 20 in a million (formerly 10 in a million). The Valley Air District's 2015 GAMAQI does not currently recommend

analysis of TAC emissions from project construction activities, but instead focuses on projects with operational emissions that would expose sensitive receptors over a typical lifetime of 70 years.

Toxic Air Pollutants—On-site Workers

A variety of State and national programs, laws and regulations protect workers from safety hazards, including high air pollutant concentrations.[63,64]

On-site workers are not required to be addressed through this Health Risk Assessment (HRA) process, consistent with guidance published by CAPCOA, *Health Risk Assessments for Proposed Land Use Projects*, indicates that on-site receptors are included in risk assessments if they are persons not employed by the proposed project.[65] This makes sense since persons not employed by the proposed project would not remain on-site for any significant period. Therefore, an HRA for on-site receptors consisting of on-site workers is not required or recommended. No further discussion is necessary.

Health Risk Assessment

During construction and operation, the proposed project would result in emissions of several TACs that could potentially impact nearby sensitive receptors. The Valley Air District has defined health risk significance thresholds. These thresholds are represented as a cancer risk to the public and a non-cancer hazard from exposures to TACs. Cancer risk represents the probability (in terms of risk per million individuals) that an individual would contract cancer resulting from exposure to TACs continuously over a period of several years. The Valley Air District's latest threshold of significance for TAC emissions is an increase in cancer risk for the maximally exposed individual of 20 in a million (formerly 10 in a million). The principal TAC emission analyzed in this assessment was DPM from operation of off-road equipment and diesel-powered delivery and worker vehicles during construction and operation. DPM has been identified by the ARB as a carcinogenic substance. For purposes of this analysis, DPM is represented as exhaust emissions of PM_{10}. DPM represented as exhaust PM_{10} adequately addresses impacts from PM_{10} and $PM_{2.5}$ emissions, as $PM_{2.5}$ comprises a component of PM_{10}. Fugitive dust components of PM_{10} and $PM_{2.5}$ would be controlled through the use of required dust control practices during project construction and therefore fugitive dust would not be considered as part of this HRA.

Given the proposed gas station, the analysis considers specific emissions associated with this type of land use. The primary routine emission sources at gasoline service stations are classified into five categories of loading, breathing, fueling, spillage, and hose permeation. Benzene, toluene, ethylbenzene, xylene, naphthalene, hexane and propylene are the TACs of concern with cancer toxicity values from gasoline dispensing facilities, with benzene accounting for nearly 85 percent of cancer risk from gasoline. In this analysis, health risks associate with exposure to benzene from gasoline service stations are assessed as part of the operational HRA.

[63] Occupational Safety and Health Administration (OSHA). 2003. United States Department of Labor. Safety and Health Topics: Methane. Website: www.osha.gov/dts/chemicalsampling /data/CH_250700.html. Accessed April 6, 2023.

[64] Centers for Disease Control and Prevention (CDC). 2012. Construction—website: www.cdc.gov/niosh/construction/. Indoor Environmental Quality—website: www.cdc.gov/niosh/topics/indoorenv/constructionieq.html. Accessed April 6, 2023.

[65] California Air Pollution Control Officers Association (CAPCOA). 2009. Health Risk Assessments for Proposed Land Use Projects.

Two drive-through restaurants would operate in the southeast corner of the project site. The restaurants would emit cooking TACs, depending on the type of restaurants, for instance, charbroiler, fryer, griddle, etc. However, it is speculative to estimate such emissions at time of this analysis. The restaurant emissions would be subjected to Valley Air District permit review before the operation. Therefore, the restaurant cooking TACs are not considered in the operational HRA.

Exposures to TACs can result in both short-term (acute) or long-term (chronic) non-cancer health impacts. Such impacts could include illnesses related to reproductive effects, respiratory effects, eye sensitivity, immune effects, kidney effects, blood effects, central nervous system, birth defects, or other adverse environmental effects.

Estimation of Cancer Risks

Cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer as a direct result of exposure to potential carcinogens over a specified exposure duration. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 20 in a million implies a likelihood (or risk) that up to 20 persons, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of TACs over a specified duration of time. This risk would be an excess cancer risk that is in addition to any environmental cancer risk borne by a person not exposed to these air toxics.

California Office of Environmental Health Hazard Assessment (OEHHA) has developed guidance for estimating cancer risks that considers the increased sensitivity of infants and adults to TAC emissions, different breathing rates, and time spent at home. [66] To provide a standardized program that implements the various health risk factors, ARB developed Hotspots Analysis and Reporting Program (HARP2) software to estimate the cancer risk associated with a range of TACs, exposure scenarios (e.g., residents, workers), and population groups (e.g., infants, adults).[67] HARP software is applied in estimating cancer risks from the construction and operation of the proposed project.

Estimation of Chronic Non-Cancer Hazards

An evaluation of potential non-cancer effects of chronic chemical exposures was also conducted. Adverse health effects were evaluated by comparing the annual receptor concentration of each chemical compound with the appropriate Reference Exposure Level (REL). Available RELs promulgated by OEHHA were considered in the assessment.

Risk characterization for non-cancer health hazards from TACs is expressed as an HI. The HI is a ratio of the predicted concentration of the project's emissions to a concentration considered acceptable to public health professionals, termed the REL.

[66] California Office of Environmental Health Hazard Assessment (OEHHA). 2015. Air Toxics Hot Spots Program. Guidance Manual for Preparation of Health Risk Assessments.

[67] California Air Resources Board (ARB). Hot Spots Analysis & Reporting Program. 2023. Website: https://ww2.arb.ca.gov/our-work/programs/hot-spots-analysis-reporting-program. Accessed September 19, 2023.

To quantify non-carcinogenic impacts, the HI approach was used.

$$HI = C_{ann}/REL \quad (EQ\text{-}3)$$

Where:

HI = chronic hazard index
C_{ann} = annual average concentration of TAC as derived from the air dispersion model ($\mu g/m^3$)
REL = reference exposure level above which a significant impact is assumed to occur ($\mu g/m^3$)

The HI assumes that chronic exposures to TACs adversely affect a specific organ or organ system (toxicological endpoint) of the body. For each discrete chemical exposure, target organs presented in regulatory guidance were used. To calculate the HI, each chemical concentration or dose is divided by the appropriate toxicity REL. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds 1, a health hazard is presumed to exist. OEHHA has defined a REL for DPM of 5 $\mu g/m^3$. The principal toxicological endpoint assumed in this assessment was through inhalation.

Toxic Air Contaminant Construction Analysis

Major sources of DPM during construction include off-road construction equipment and heavy-duty delivery truck activities. The results of the HRA prepared for project construction for cancer risk and long-term chronic non-cancer risk are summarized below. Air dispersion modeling was utilized to assess the proposed project's potential health risks using AERMOD Version 22112, which is an air dispersion model accepted by the EPA and the Valley Air District for preparing HRAs. Exhaust emissions of DPM (as PM_{10} exhaust) were estimated using CalEEMod Version 2020.4.0. Construction emissions were estimated assuming adherence to all applicable rules, regulations, and the incorporation of identified project design features. The construction emissions were assumed to be distributed over the project site with a working schedule of eight hours per day and five days per week. Emissions were adjusted by a factor of 4.2 to convert for use with a 24-hour-per-day, 365 day-per-year averaging period. Detailed parameters, a description of methodology, and complete calculations are contained in Appendix B.

The estimated health and hazard impacts at the Maximally Impacted Sensitive Receptor (MIR) from the proposed project's construction emissions are provided in Table 23 and Table 24. Under both unmitigated reasonable and worst-case scenario, the proposed project's construction DPM emissions would not exceed the cancer risk significance threshold at the MIR. Although not required to reduce construction health risk impacts, the implementation of MM AIR-2a to reduce criteria pollutant emissions (as required by Impact AIR-2) would further reduce estimated health risks and hazards during project construction for reasonable (Table 23) and worst-case scenario (Table 24). The estimated health risks and hazards during project construction, after application of MM AIR-2a is presented below for informational purposes. The MIR is a unit located at the northwest corner within an apartment complex located at 6714 W Oriole Drive, Visalia, CA 93291. The MIR's coordinates are 36.356176, -119.367478.

Table 23: Estimated Health Risks and Hazards During Project Construction (Mitigated)–Reasonable Scenario

Source and Scenario	Cancer Risk (risk per million)	Chronic Non-Cancer HI[1]	Acute Non-Cancer HI[2]
Construction–Reasonable Scenario	1.95	0.00093	–
Significance Threshold	**20**	**1**	**1**
Exceeds Individual Source Threshold?	**No**	**No**	**No**

Notes:
HI = hazard index
MIR = Maximally Impacted Sensitive Receptor
[1] Chronic non-cancer HI was estimated by dividing the maximum annual DPM concentration (as PM_{10} exhaust) by the REL of 5 $\mu g/m^3$.
[2] The acute health effect of DPM is not significant and acute HI of DPM is not available in HARP.
Source: Health Risk Assessment (Appendix B).

Table 24: Estimated Health Risks and Hazards During Project Construction (Mitigated)–Worst-Case/Concurrent Construction Scenario

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI[1]	Acute Non-Cancer HI[2]
Construction–Worst-case Scenario	2.69	0.0015	–
Significance Threshold	**20**	**1**	**1**
Exceeds Individual Source Threshold?	**No**	**No**	**No**

Notes:
HI = hazard index
MIR = Maximally Impacted Sensitive Receptor
[1] Chronic non-cancer HI was estimated by dividing the maximum annual DPM concentration (as PM_{10} exhaust) by the REL of 5 $\mu g/m^3$.
[2] The acute health effect of DPM is not significant and acute HI of DPM is not available in HARP.
Source: Health Risk Assessment (Appendix B).

Toxic Air Contaminant Operation Analysis

DPM and Gasoline TAC Emissions

Major sources of DPM during operation potentially include passenger vehicles from employees, HHD trucks, on-site off-road and on-road service equipment, such as forklifts and pallet jacks, because these vehicles use diesel as the fuel source. Although the gas station, drive-through restaurant, RV parking area, and self storage facilities would result in idling vehicles, which could result in small amounts of TAC emissions, the majority of these vehicles would be gasoline powered which do not run on diesel fuel or emit significant amounts of DPM emissions. Material handling equipment at the facility (pallet jacks and forklifts) would be electric and would not emit DPM.

The results of the HRA prepared for project operation for cancer risk and long-term chronic non-cancer risk are summarized below. Air dispersion modeling was utilized to assess the proposed

project's potential health risks using AERMOD Version 22112, which is an air dispersion model accepted by the EPA and the Valley Air District for preparing HRAs. Sources in the modeling included those from running and idle exhaust emissions from trucks on and operating off-site on adjacent roadways as well as gasoline service station emissions.

Emissions of DPM (as PM_{10} exhaust) for running exhaust at speeds of 0–25 miles per hour as well as idling exhaust emissions of DPM were estimated using EMFAC 2021 using project-level inputs and the EMFAC-PL[68] (project level) web tool. On-Site idling was estimated at 20 minutes per truck visit to account for idling at several locations within the site including during entering and exiting, at the docks and at the truck parking areas. On-site truck travel at speeds of 0-15 mile per hour were accounted for in the on-site emissions. Off-site truck emissions at speeds ranging from 0-25 mph were modeled on the roadways adjacent to the site (Riggins Avene and Shirk Road). Truck distributions along each of these roadways were derived from the traffic study distribution data.

Benzene, toluene, ethylbenzene, xylene, naphthalene, hexane and propylene are the TACs of concern with cancer toxicity values from gasoline dispensing facilities, with benzene accounting for nearly 85 percent of cancer risk from gasoline.

As stated in the project description, the proposed project would include approximately 6,900 square feet of gas station and convenience store space, and as a result, the proposed project would generate TACs associated with gasoline loading and dispensing emissions during emissions. Accordingly, the proposed project's operational gas station TAC emission impacts on sensitive receptors were evaluated in the HRA. Emissions were calculated based on a project-specific throughput of 900,000 gallons per years and methodologies developed by the ARB and CAPCOA for Gasoline Service Stations.[69] Operational emissions were estimated assuming adherence to all applicable rules, regulations, and incorporation of identified project design features. Detailed parameters, a description of methodology, and complete calculations are contained in Appendix B.

The estimated health and hazard impacts at the MIR from the proposed project's operation is provided in Table 25. Because the same MIR is exposed to both project construction and operation, the cumulative risks are provided in Table 26 and Table 27.

Table 25: Estimated Health Risks and Hazards During Project Operation (Unmitigated) at the MIR

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI	Acute Non-Cancer HI[1]
Gasoline Fueling Activities	0.1	<0.0001	0.06
Operational DPM (On-Site)	0.69	0.0002	–
Operational DPM (Off-Site Trucks)	2.56	0.0007	–

[68] California Air Resources Board, EMFAC2021 Project-Level Analysis Web Tool, Website: https://arb.ca.gov/emfac/project-analysis, Accessed on October 23, 2023.
[69] California Air Resources Board and California Air Pollution Control Officers Association
Gasoline Service Station Industrywide Risk Assessment Technical Guidance February 18, 2022.
https://ww2.arb.ca.gov/resources/documents/gasoline-service-station-industrywide-risk-assessment-guidance

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI	Acute Non-Cancer HI[1]
Total Risk from Project Operations	3.35	0.001	0.06
Significance Threshold	**20**	**1**	**1**
Exceeds Individual Source Threshold?	**No**	**No**	**No**

Notes:
DPM = diesel particulate matter
HI = hazard index
MIR = Maximally Impacted Sensitive Receptor
Source: Health Risk Assessment (Appendix B).

Table 26: Cumulative Health Risks and Hazards During Reasonable Construction (Mitigated) and Operation (Unmitigated) at the MIR

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI	Acute Non-Cancer HI[1]
Reasonable Construction + Operation	5.30	0.002	0.06
Significance Threshold	**20**	**1**	**1**
Exceeds Cumulative Threshold?	**No**	**No**	**No**

Notes:
DPM = diesel particulate matter
HI = hazard index
MIR = Maximally Impacted Sensitive Receptor
Source: Health Risk Assessment (Appendix B).

Table 27: Cumulative Health Risks and Hazards During Worst-Case/Concurrent Construction (Mitigated) and Operation (Unmitigated) at the MIR

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI	Acute Non-Cancer HI[1]
Worst-case Construction + Operation	6.04	0.0025	0.06
Significance Threshold	**20**	**1**	**1**
Exceeds Cumulative Threshold?	**No**	**No**	**No**

Notes:
DPM = diesel particulate matter
HI = hazard index
MIR = Maximally Impacted Sensitive Receptor
Source: Health Risk Assessment (Appendix B).

As noted in Table 25, the proposed project's operational DPM emissions would not exceed the cancer risk significance threshold or non-cancer hazard index significance threshold at the MIR. As shown in Table 26 and Table 27, the combined impact from project construction and operation at

the MIR would not exceed the cumulative health risk threshold. Therefore, the proposed project would not result in a significant impact on nearby sensitive receptors from TACs during operation. The proposed project would be required to implement MM AIR-2c through -2g during project operation to reduce emissions, which represents all feasible and enforceable mitigation. Health risk impacts from construction and operations, and construction with operations combined would be less than significant.

Level of Significance

Less than significant impact.

5.2.3 - Objectionable Odors

Impact AIR-4:	**The proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.**

Impact Analysis

Thresholds of Significance

In general, two situations typically create a potential for other emissions, such as those leading to odors, which can occur. The first occurs when a new odor source is located near an existing sensitive receptor. The second occurs when a new sensitive receptor locates near an existing source of odor. For purposes of review under CEQA, only the first circumstance typically involves a CEQA issue since the second involves an impact of the existing environment on the project (i.e., "CEQA in reverse").

Odor impacts on residential areas and other sensitive receptors, such as hospitals, daycare centers, schools, etc. warrant the closest scrutiny, but consideration should also be given to other land uses where people may congregate, such as recreational facilities, worksites, and commercial areas.

The Valley Air District has determined the common land use types that are known to produce odors in the Air Basin. These types are shown in Table 28.

Table 28: Screening Levels for Potential Odor Sources

Odor Generator	Screening Distance
Wastewater Treatment Facilities	2 miles
Sanitary Landfill	1 mile
Transfer Station	1 mile
Composting Facility	1 mile
Petroleum Refinery	2 miles
Asphalt Batch Plant	1 mile
Chemical Manufacturing	1 mile
Fiberglass Manufacturing	1 mile
Painting/Coating Operations (e.g., auto body shop)	1 mile

Odor Generator	Screening Distance
Food Processing Facility	1 mile
Feed Lot/Dairy	1 mile
Rendering Plant	1 mile
Source: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed October 21, 2022.	

As summarized above, and as according to the Valley Air District GAMAQI, analysis of potential odor impacts should be conducted for the following two situations:

- **Generators:** projects that would potentially generate odorous emissions proposed to locate near existing sensitive receptors or other land uses where people may congregate, and
- **Receivers:** residential or other sensitive receptor projects or other projects built for the intent of attracting people locating near existing odor sources.

Because the proposed project would not introduce new sensitive receptors to an area near existing odor sources, this analysis implements the following methodology to evaluate potential impacts in this regard: Would the project generate significant amounts of odors during construction or operation?

Project Analysis

Project Construction

Diesel exhaust and ROGs would be emitted during construction of the proposed project as a result of the various diesel-powered vehicles and equipment in use on-site, which would create localized odors. The proposed project would develop a total of approximately 284 acres over time, which would require the operation of construction equipment and vehicles throughout the project site. However, as the proposed buildings would be located within the interior of the project site and set back from the project boundaries and surrounding land uses, the operation of construction equipment and vehicles would predominantly occur in the interior of the project site and not along the project boundaries or near sensitive receptors located to the southeast. Moreover, emissions would disperse relatively rapidly from the project site given the nature of the emissions. Thus, these odors would be temporary and would not likely be noticeable for extended periods of time beyond the project's site boundaries. As such, construction odor impacts would be less than significant.

Project Operation

Odor Generator

As noted above, land uses that are typically identified as sources of objectionable odors include landfills, transfer stations, sewage treatment plants, wastewater pump stations, composting facilities, feed lots, coffee roasters, asphalt batch plants, and rendering plants. The proposed project would be occupied by multiple tenants/occupants in the light industrial buildings, a convenience store and gas station, a car wash, and two drive-through restaurants. None of the proposed uses

would be considered sources of significant odors; see, e.g., the types of uses identified in Table 28. Although the gas station use would emit some odors due to the re-fueling of gasoline and diesel, this land use would not include refining of fossil fuels and odors would disperse into the atmosphere relatively rapidly, similar to construction emissions, and the closest sensitive receptor would be located across the West Riggin Avenue and North Shirk Street intersection, such that odors would not be significant. As a result, the proposed project would not place an odor source within the screening distance to sensitive receptors.

Odor Source

For information purposes, the following is noted. The proposed project would not include residential, daycare, or other types of sensitive receptor land uses on the project site. As a result, the proposed project would not place new sensitive receptors within the screening distance of a significant source of odors.

Level of Significance

Less than significant impact.

SECTION 6: GREENHOUSE GAS IMPACT ANALYSIS

6.1 - CEQA

CEQA defines a significant effect on the environment as "a substantial, or potentially substantial, adverse change in the environment." To determine whether a project would have a significant impact on GHGs, the type, level, and impact of emissions generated by the project must be evaluated.

The following GHG significance thresholds are contained in Appendix G of the CEQA Guidelines, which were amendments adopted into the Guidelines on March 18, 2010, pursuant to SB 97. A significant impact would occur if the proposed project would:

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

6.1.1 - Thresholds of Significance for the Proposed Project

Section 15064.4 of the CEQA Guidelines

Section 15064.4(a) of the CEQA Guidelines notes that the significance determination with respect to GHG emissions "calls for a careful judgment" by the lead agency, making a "good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of greenhouse gas emissions result from a project. A lead agency shall have discretion to determine, in the context of a particular project, whether to: (1) Quantify greenhouse gas emissions resulting from a project; and/or (2) Rely on a qualitative analysis or performance-based standards."

Section 15064.4(b) of the CEQA Guidelines provides that a lead agency should take into account the following three considerations, among others, in assessing the significance of impacts from GHG emissions.

- **Consideration No. 1**: The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting.
- **Consideration No. 2**: Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- **Consideration No. 3**: 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. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the

project. In determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.

Section 15064.4(c) of the CEQA Guidelines provides that a lead agency may use a model or methodology to estimate GHG emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision-makers to intelligently take into account the project's incremental contribution to climate change, so long as this selection is supported by substantial evidence in the record.

For the reasons explained below, this analysis contains both (1) a quantitative determination of the GHG emissions that would be generated by the proposed project, and (2) a qualitative assessment that addresses consistency with the SB 32 targets, the 2017 Scoping Plan and 2022 Scoping Plan Update. This approach provides estimates of project emissions in the new 2030 milestone year with the existing threshold to show the extent of progress achieved with existing regulations and the incorporation of specific project design features to address Considerations 1 and 2.

City of Visalia Climate Action Plan

The City of Visalia CAP has established two GHG emission reduction targets: (1) a 15 percent reduction below 2005 baseline year levels by 2020, and (2) a 30 percent reduction below 2005 baseline year level by 2030. These two targets were selected to meet the ARB's recommended reduction target and the reduction target set by California Executive Order S-3-05. The CAP describes the GHG emission reduction targets for the community and municipal sectors compared to the baseline level:

- The community sector 2020 reduction target of reducing GHG emissions 15 percent below 2005 emissions levels equates to a reduction of 443,051 MT CO_2e
- The community-wide 2030 reduction target of reducing GHG emissions 30 percent below 2005 emissions levels equates to a reduction of 759,887 MT CO_2e
- The municipal sector 2020 reduction target of reducing GHG emissions 15 percent below 2005 emissions levels equates to a reduction of 13,979 MT CO_2e
- The municipal sector 2030 reduction target of reducing GHG emissions 30 percent below 2005 emissions levels equates to a reduction of 11,512 MT CO_2e

However, the CAP would not be considered an "approved GHG emission reduction plan or GHG mitigation program" for purposes of streamlining CEQA review. The standard elements of a Qualified GHG Reduction Strategy include the following steps:

1. Quantify greenhouse gas emissions, both existing and projected over a specified time period, resulting from activities within a defined geographic range.

2. Establish a level, based on substantial evidence below, which the contribution to greenhouse gas emissions from activities covered by the plan would not be cumulatively considerable.
3. Identify and analyze the greenhouse gas emissions resulting from specific actions or categories of actions anticipated within the geographic area.
4. Specify measures or a group of measures, including performance standards that substantial evidence demonstrates, if implemented on a project-by-project basis, would collectively achieve the specified emissions level.
5. Monitor the plan's progress.
6. Adopt the greenhouse gas reduction strategy in a public process following environmental review.

The Visalia CAP includes elements 1, 2, 3, 4, and 6, but does not meet element 5, which requires lead agencies to monitor their progress toward achieving and meeting the goals of a CAP. Based on information provided on the City's website and description of the CAP, the City has not published publicly available progress reports.

Valley Air District's Guidance for Providing a BAU Analysis and the State's Scoping Plan

The Valley Air District 's Guidance for Valley Land Use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA provides guidance for preparing a BAU analysis.[70] Under the Valley Air District guidance, projects meeting one of the following would have a less than significant impact on climate change:

- Exempt from CEQA;
- Complies with an approved GHG emission reduction plan or GHG mitigation program;
- Project achieves 29 percent GHG reductions by using approved Best Performance Standards; and
- Project achieves AB 32 targeted 29 percent GHG reductions compared with "business as usual."

With respect to the foregoing, the proposed project (1) is not exempt from CEQA; (2) the City's CAP does not qualify as an "approved GHG emission reduction plan or GHG mitigation program" for purposes of streamlining CEQA review; and (3) to date, the Valley Air District has not developed a pre-determined list of BPS to achieve a 29 percent reduction from BAU. Therefore, consistent with the Valley Air District guidance (see No. 4, above), this analysis evaluates whether the proposed project would achieve the AB 32 target GHG reduction compared with BAU. It is important to note that when the Valley Air District guidance was adopted in 2009, it referenced a need for development projects to have in excess of a 29 percent reduction from BAU to meet AB 32 targets, which was established by the ARB's AB 32 Scoping Plan, approved in 2008. However, the GHG reduction level for the State to reach 1990 emission levels by 2020 was reduced to 21.7 percent from

[70] San Joaquin Valley Air Pollution Control District (Valley Air District). 2009. "Final Staff Report, Addressing Greenhouse Gas Emissions Impacts under the California Environmental Quality Act." Website: http://www.valleyair.org/programs/CCAP/11-05-09/1_CCAP_FINAL_CEQA_GHG_Draft_Staff_Report_Nov_05_2009.pdf. December 2009. Accessed February 5, 2020.

BAU in 2020 in the 2014 First Update to the Scoping Plan to account for slower than projected growth after the 2008 recession.[71] In addition, the State has reported that the 2016 GHG inventory was below the 2020 target for the first time.[72] Furthermore, the 2017 Scoping Plan stated that California was on track to achieve the 2020 target.[73]

As explained further above, the 2030 target was codified under SB 32 and is now addressed by the 2017 Scoping Plan Update, which includes methodologies and threshold approaches required to determine the fair-share contributions development projects would need to make to achieve the 2030 target. The SB 32 target requires GHG emissions to be reduced from 1990 levels. However, no consensus has been reached around the State on a new quantitative target for new development based on consistency with the SB 32 targets. The ARB adopted the 2017 Scoping Plan Update on December 14, 2017. The plan provides the State's strategy to achieve the SB 32 2030 target of a 40 percent reduction in emissions compared to 1990 levels. The plan includes existing and new measures that when implemented are expected to achieve the SB 32 2030 target. The 2017 Scoping Plan Update would achieve substantial reductions beyond 2020 through continued implementation of existing regulations. Other regulations will be adopted to implement recently enacted legislation including SB 350, which requires an increase in renewable energy from 33 percent to 50 percent and doubling the efficiency of existing buildings by 2030.

The State Legislature extended the Cap-and-Trade Program through 2030. Cap-and-Trade provides a mechanism to make up shortfalls in other strategies if they occur.[74] In addition, the strategy relies on reductions achieved in implementing the ARB Short-Lived Climate Pollutant (SLCP) Reduction Strategy to reduce pollutants not previously controlled for climate change such as black carbon, CH_4, and hydrofluorocarbons.[75]

As described previously, the 2022 Scoping Plan was recently adopted in December 2022. The 2022 Scoping Plan identifies strategies to meet the State's SB 32 GHG reduction goals as well as feasible methods to achieve carbon neutrality by 2045. Appendix D of the 2022 Scoping Plan identifies the importance of local jurisdiction actions, such as cities and counties, because these entities have direct control over land use decisions in much of the State. While local jurisdictions influence land use development and building GHG reduction measures, the State largely influences transportation GHG reduction measures. As such, the 2022 Scoping Plan provides a strategy that is capable of reaching the SB 32 target if the measures included in the plan are implemented and achieve reductions within the ranges expected. Nevertheless, to date, neither a new quantitative threshold

[71] California Air Resources Board (ARB). 2014. First Update to the Climate Change Scoping Plan. Website: http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm. Accessed February 5, 2020.
[72] California Air Resources Board (ARB). 2018. Climate Pollutants Fall Below 1990 Levels for the First Time. Website: https://ww2.arb.ca.gov/news/climate-pollutants-fall-below-1990-levelsfirst-time. Accessed February 5, 2020.
[73] California Air Resources Board (ARB). 2017. The 2017 Climate Change Scoping Plan Update, the Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target. January 20, 2017. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed February 5, 2020.
[74] California Air Resources Board (ARB). 2017. The 2017 Climate Change Scoping Plan Update, the Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target. January 20, 2017. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed February 5, 2020.
[75] California Air Resources Board (ARB). 2017. Short-Lived Climate Pollutant Reduction Strategy. March. Website: https://www.arb.ca.gov/cc/shortlived/meetings/03142017 /final_slcp_report.pdf. Accessed February 5, 2020.

nor BPS have been identified for projects constructed after 2020. Therefore, significance is based on making continued progress toward the SB 32 2030 goal.

Newhall Ranch

As explained above at length, the California Supreme Court has set forth additional guidance in evaluating a project's potential GHG impact. In a November 30, 2015, ruling, the California Supreme Court in *Center for Biological Diversity v. California Department of Fish and Wildlife* invalidated the EIR for the Newhall Ranch project due to insufficient evidence in the administrative record supporting that project's GHG analysis, among other reasons. The Court endorsed the use of AB 32's Statewide emission reduction goals as a legally permissible significance threshold for analyzing a project's GHG impacts under CEQA. In particular, the Court upheld: (1) use of the Statewide emissions reduction goal in AB 32 as a significance criterion (pp. 15–19), (2) use of the Scoping Plan's BAU model "as a comparative tool for evaluating efficiency and conservation efforts" of the Project (pp. 18–19), and (3) a comparison of the project's expected emissions to a BAU model rather than a baseline of pre-project conditions (pp. 15–19).

However, comparisons to the AB 32 Scoping Plan must be supported by a reasoned explanation based on substantial evidence. In other words, the Court approved the methodology used in the EIR's analysis in terms of reductions from projected BAU emissions consistent with AB 32's Statewide reductions mandate (rather than against some absolute numeric limit above the project site's baseline emissions), but the Court held the GHG analysis lacked supporting substantial evidence and a cogent explanation correlating the project-specific reductions to AB 32's mandated Statewide reductions so as to demonstrate consistency with the latter's goals under the approved methodology. The Court suggested a lead agency could examine the "data behind the Scoping Plan's business-as-usual model" to determine the necessary project-level reductions from new land use development at the proposed location (p. 25). A lead agency "might assess consistency with AB 32's goal in whole or part by looking to compliance with regulatory programs designed to reduce GHG emissions from particular activities."

The substantial evidence needed to support a project BAU threshold can be derived from data used to develop the Scoping Plan inventory and control strategy, and from analysis conducted by the ARB to track progress in achieving the AB 32 2020 target. The critical factor in determining the appropriate project threshold is whether the State requires additional reductions beyond those achieved by existing regulations in order to achieve its target. If no additional reductions are required from individual projects, no nexus exists to require a project to mitigate its emissions. In that case, the percentage reductions achieved by projects through compliance with regulations is the amount needed to reach the AB 32 target.

The State's regulatory program implementing the 2008 Scoping Plan is now fully mature. All regulations envisioned in the Scoping Plan have been adopted by the responsible agencies and the effectiveness of those regulations have been estimated by the agencies during the adoption process and then are tracked to verify their effectiveness after implementation. The combined effect of this successful effort is that the State now projects that it will meet the 2020 target and achieve continued progress toward meeting post-2020 targets.

The California Supreme Court was concerned that new development may need to do more than existing development to reduce GHGs to demonstrate that it is doing its fair share of reductions. As will be shown below, new development does do more than existing development and, because of the nature of the sources of GHG emissions related to development, existing development is equally responsible for reducing emissions from the most important sources of emissions. It is important to note that most of the State's regulatory program applies to both new and existing development.

The Scoping Plan reduction from BAU accounts for growth projected in the State and assumes that existing development would continue to emit GHGs at the same rate that occurred in the base year (2002-2004 average). The California Department of Finance (CDF) Report E-5 predicts that population growth in California from 2005 to 2020 will be 13.2 percent. This means that development that existed in 2005 will produce nearly 87 percent of the State's emissions in 2020. Conversely, new development is only responsible for about 13 percent of the emissions generated during this timeframe. If measures to reduce emissions from existing development were not available, new development could not provide sufficient reductions to reach the 2020 target even if their emissions were reduced to net zero. This continues to apply to the 2030 target. The CDF forecasts California's population will grow by 8.1 percent between 2020 and 2030, so existing development will be responsible for 92 percent of the emissions that occur in 2030.

The State's regulatory program is able to target both new and existing development because the two most important strategies—motor vehicle fuel efficiency and emissions from electricity generation—obtain reductions equally from existing and new sources. This is because all vehicle operators use cleaner low carbon fuels and buy vehicles subject to the fuel efficiency regulations, and all building owners or operators purchase cleaner energy from the grid that is produced by increasing percentages of renewable fuels. This includes regulations on mobile sources such as: the Pavley standards that apply to all vehicles purchased in California, the LCFS that applies to all fuel used in California, and the RPS and Renewable Energy Standard that apply to utilities providing electricity to all California homes and businesses. The reduction strategy where new development is required to do more than existing development is building energy efficiency and energy use related to water conservation regulations. For example, new projects are subject to Title 24 Energy Efficiency Standards and CALGreen Code and Model Water Efficient Landscape Ordinance (MWELO) water conservation requirements. New buildings and landscapes are much more energy efficient and water efficient than the development that has been built over the past decades and will require much less energy. Title 24 is updated about every 3 years with the goal of reaching zero-net-energy from new residential buildings by 2020 and new commercial buildings by 2030. The proposed project's industrial building would be constructed after 2023 and would be required to comply with the regulations in effect at the time building permits are issued.

As described above, the State requires an average reduction from all sources of the emission inventory of 21.7 percent to achieve the 2020 target. The Scoping Plan strategy will achieve greater than average reductions from energy and mobile source sectors that are the primary sources related to development projects, and lower than average reductions from other sources such as agriculture. The amount of reduction estimated by the ARB for each sector was based on technical feasibility and cost effectiveness. Review of the 2008 Scoping Plan inventory and strategy shows that the reduction from all development related sources is approximately 29 percent from BAU in order to make up for

the below average sectors and achieve the required 21.7 percent average reduction. Achieving the SB 32 2030 target will require an approximate 40 percent reduction from 2020 levels assuming the State achieves the AB 32 target. The 2017 Scoping Plan Update identifies a range of reduction amounts expected from each emission sector, but an amount needed for development's fair share of reductions have not been determined. The 2022 Scoping Plan addresses the latest climate-related legislation, AB 1279, which required the State to reduce Statewide anthropogenic GHG emissions to at least 85 percent below 1990 levels by 2045 and to maintain net negative GHG emissions thereafter.

Approach to Methodology and Analysis

Given the above regulatory framework and relevant caselaw, for purposes of this analysis, it incorporates both a quantitative evaluation as well as a qualitative consistency evaluation. Specifically, a quantitative analysis was prepared for the proposed project to determine the extent to which it may increase or reduce GHG emissions as compared to the existing environmental setting (see Consideration 1, above). The analysis also sets forth an evaluation of the proposed project's consistency with the SB 32 targets and the 2017 Scoping Plan Update based on an assessment of the proposed project's reduction from BAU based on emissions in 2030 compared with the 21.7 percent reduction and the with a consistency analysis. This approach provides estimates of project emissions in the new 2030 milestone year with the existing threshold to show the extent of progress achieved with existing regulations and project design features to address Considerations 1 and 2 above. Consistent with the guidance provided by the *Newhall Ranch* decision, a BAU analysis was prepared that assesses the proposed project's "consistency with AB 32's goal in whole or part by looking to compliance with regulatory programs designed to reduce greenhouse gas emissions from particular activities." To that end, this analysis shows the extent to which the proposed project complies with adopted regulations as well as the additional amount of GHG reductions that would be achieved through implementation of identified project design features.

At this point in time, no additional reductions are required from new development beyond existing regulations for the State to achieve its 2020 target. The recently adopted 2030 target will require a reduction from 431 MT CO_2e to 260 MT CO_2e or 40 percent from 1990 levels. After accounting for projected growth of approximately 0.8 percent per year, an average decrease of 5.2 percent per year from the State GHG inventory will be required to achieve the target. As noted above, the 2017 Scoping Plan Update includes a strategy for achieving the needed reductions, but does not identify an amount required specifically from new development. However, all GHG emission sources within development projects are subject to GHG regulations.

Therefore, this analysis considers the proposed project's consistency with the existing 2020 target and shows progress toward achieving the 2030 target. The quantitative analysis prepared for the proposed project sets forth the reduction from BAU in the 2030 target year to show the progress anticipated prior to applying reductions from new strategies contained in the 2017 Scoping Plan Update. The new reduction strategies from the plan are designed to close the gap between existing commitments and those needed to achieve the 2030 target, but many of the strategies must go through a regulatory process to be implemented. Therefore, the reduction levels needed from new development beyond regulations, if any, is uncertain.

The analysis prepared for the proposed project also includes qualitative assessments of compliance with the 2008 Scoping Plan, the 2017 Scoping Plan Update, and the 2022 Scoping Plan Update to support GHG significance findings under Impact GHG-2.

To determine significance, the analysis first quantifies project-related GHG emissions under a BAU scenario, and then compares these emissions with emissions that would occur when all project-related design features are accounted for, and when compliance with applicable regulatory measures is assumed. The standard and methodology are explained in further detail below.

6.2 - Impact Analysis

6.2.1 - Greenhouse Gas Inventory

Impact GHG-1:	**The proposed project would generate direct and indirect greenhouse gas emissions; however, these emissions would not result in a significant impact on the environment.**

Impact Analysis

Construction Emissions

Total GHG emissions generated during all phases of construction were combined and are presented in Table 29. The Valley Air District does not recommend assessing the significance of construction-related emissions. However, other jurisdictions, such as the South Coast Air Quality Management District (SCAQMD) and the Sacramento Metro Air Quality Management District (SMAQMD), have concluded that construction emissions should be included since they may remain in the atmosphere for years after construction is complete. For purposes of a conservative analysis, the City, in its discretion, has elected to account for the construction emissions by amortizing the total emissions generated during construction based on the life of the development (30 years) and then adding them to the operational emissions. Table 29 presents the amount of GHG emissions during construction assuming implementation of MM AIR-2a and -2b.

Table 29: Construction Greenhouse Gas Emissions (Mitigation Included)

Construction Year	Total MT CO_2e per year (approximately)
2024	7,013
2025	3,710
2026	3,081
2027	3,713
2028	874
Entire Construction Duration (2024-2028)	
Total	**18,391**
Amortized over 30 years	***613***

Construction Year	Total MT CO_2e per year (approximately)
Notes: Because of rounding, total MT CO_2e may be marginally different from CalEEMod output. MT CO_2e = metric tons of carbon dioxide equivalent Source: CalEEMod output (Appendix A).	

Operational Emissions

Operational or long-term emissions would occur over the life of the proposed project. Sources of emissions would consist of motor vehicles and trucks, energy usage, water usage, waste generation, and area sources, such as, for example, landscaping activities.

Business as Usual Operational Emissions

Operational emissions under the BAU scenario were modeled using CalEEMod Version 2020.4.0. Modeling assumptions for the year 2005 were used to represent 2030 BAU conditions (without the benefit of regulations adopted to reduce GHG emissions). The Valley Air District guidance recommends using emissions in 2002–2004 in the baseline scenario to represent conditions—as if regulations had not been adopted—to allow the effect of projected growth on achieving reduction targets to be clearly defined.

2025 and 2030 Operational Emissions

Operational emissions were modeled for the years 2025 and 2030 using CalEEMod. It should be noted that although Phase 1 of the proposed project is assumed to be operational in 2025, Phase 2 in 2026, and Phase 3 in 2028, in order to present a conservative evaluation, this BAU analysis assumed that full buildout of the project would be occur and be operational in 2025. CalEEMod assumes compliance with some, but not all, applicable rules and regulations regarding energy efficiency, vehicle fuel efficiency, renewable energy usage, and other GHG reduction policies, as described in the CalEEMod User's Guide.[76] The reductions obtained from each regulation and the source of the reduction amount used in the analysis are described below.

Emissions Accounting for Applicable Regulations

The following regulations are incorporated into the CalEEMod emission factors:

- Pavley I and Pavley II (LEV III) motor vehicle emission standards
- ARB Medium and Heavy-Duty Vehicle Regulation
- 2005, 2008, 2013, 2016, and 2019 Title 24 Energy Efficiency Standards

The following regulations have not been incorporated into the CalEEMod emission factors and require alternative methods to account for emission reductions provided by the regulations:

- Renewable Portfolio Standards
- Low Carbon Fuel Standard
- 2022 Title 24 Energy Efficiency Standards

[76] South Coast Air Quality Management District (SCAQMD). 2017. User's Guide for CalEEMod Version 2016.3.2. Website: http://www.aqmd.gov/caleemod/user's-guide. Accessed September 24, 2020.

- California Green Building Standards Code (indoor water use)
- California Model Water Efficient Landscape Ordinance (Outdoor Water)

Pavley II/LEV III standards have been incorporated in CalEEMod 2020.4.0. The ARB estimates a 3 percent reduction in 2020 and a 19 percent reduction from the vehicle categories subject to the regulation by 2030.[77,78]

The ARB GHG Regulation for Medium and Heavy-Duty Engines and Vehicles would apply to trucks accessing the project site. Therefore, the benefits of this regulation were incorporated into CalEEMod 2020.4.0. The ARB estimates that this regulation will reduce GHG emissions from the affected vehicles by 7.2 percent.[79]

Title 24 reductions for 2013 and 2016 updates are included in CalEEMod 2020.4.0. RPS is not accounted for in CalEEMod 2020.4.0. Energy savings from water conservation resulting from the Green Building Code Standards for indoor water use and California MWELO for outdoor water use are not included in CalEEMod. The Water Conservation Act of 2009 mandates a 20 percent reduction in urban water use that is implemented with these regulations.

Regulations applicable to project sources and the percent reduction anticipated from each source are shown in Table 30. The percentage reductions are only applied to the specific sources subject to the regulations. For example, the Pavley LEV Standards apply only to light-duty cars and trucks.

Table 30: Summary of Applicable Greenhouse Gas Regulations

Regulation	Project Applicability
Pavley Low Emission Vehicle Standards	Light-duty cars and trucks accessing the project site are subject to the regulation.
Truck and Bus Regulation	Heavy-duty trucks accessing the project site for deliveries and services are subject to the regulation.
Low Carbon Fuel Standard (LCFS)	Vehicles accessing the project site would use fuel subject to the LCFS.
Title 24 Energy Efficiency Standards	The project buildings would be constructed to meet the latest version of Title 24 (currently 2022). The reduction applies only to energy consumption subject to the regulation.
Green Building Code Standards	The proposed project would include water conservation features required by the standard.

[77] California Air Resources Board (ARB). 2010. Pavley 1 + Low Carbon Fuel Standard Postprocessor Version 1.0 User's Guide. Website: https://ww3.arb.ca.gov/cc/sb375/tools/pavleylcfs-userguide.pdf. Accessed July 21, 2022.

[78] California Air Resources Board (ARB). 2013. Clean Car Standards—Pavley, Assembly Bill 1493. Website: http://www.arb.ca.gov/cc/ccms/ccms.htm. Accessed July 21, 2022.

[79] California Air Resources Board (ARB). 2013. Initial Statement of Reasons for Proposed Rulemaking, Proposed GHG Regulations for Medium and Heavy-Duty Engines and Vehicles. Website: https://www.arb.ca.gov/regact/2013/hdghg2013/hdghg2013isor.pdf. - Accessed July 21, 2022.

Regulation	Project Applicability
Water Efficient Land Use Ordinance	The project landscaping would be required to comply with the regulation.
Renewable Portfolio Standard (RPS)	Electricity purchased for use at the project site is subject to the 33 percent RPS mandate and would be subject to the 60 percent mandate starting in the 2030 operational year.

Reported operational emissions are considered to represent unmitigated project conditions to present a conservative analysis, although MMs AIR-2c through -2g would reduce GHG emissions due to the use of more efficient on-site vehicles and equipment, reducing vehicle idling, providing electric vehicles with charging infrastructure, these measures cannot be quantified in CalEEMod. Full assumptions and model outputs are provided in Appendix A and results of this analysis for 2025 are presented in Table 31. A second analysis for 2030 is presented in Table 32.

Table 31: Project Operational Greenhouse Gases 2025

Source	Emissions (MT CO_2e per year) (approx.)	
	Business as Usual	2025
Area	0.070	0.070
Energy	10,806	8,770
Mobile–Passenger Vehicles	15,098	9,811
Mobile–Trucks	69,786	40,127
Waste	2,271	2,001
Water	1,969	1,969
Amortized Construction Emissions	611	611
Total	**100,540**	**63,290**
Reduction from BAU		37,251
Percent Reduction		37.05%
City of Visalia Significance Threshold		15%
Valley Air District Significance Threshold		29%
Are emissions significant?		**No**

Notes:
BAU = Business as Usual
MT CO_2e = metric tons of carbon dioxide equivalent
The proposed project would achieve the Valley Air District 29 percent reduction from BAU threshold, and the 21.7 percent required to show consistency with AB 32 targets.
Source of BAU emissions: CalEEMod output using 2005 modeling year to represent emissions in 2025 without regulations (Appendix A).
Source of 2022 emissions: CalEEMod output (Appendix A).

As shown in Table 31, the proposed project would achieve a reduction of 37.05 percent from BAU by the year 2025 with compliance with applicable regulations and identified project design features incorporated. This is above the 29 percent reduction required by the Valley Air District threshold and well exceeds the 21.7 percent average reduction from all sources of GHG emissions now required to achieve AB 32 targets.

Since the project buildout would occur after 2020, additional analysis was conducted to demonstrate consistency with the SB 32 2030 target, as summarized in Table 32.

Table 32: Project Operational Greenhouse Gases 2030

Source	Emissions (MT CO_2e per year) (approx.)	
	Business as Usual	2030
Area	0.070	0.0724
Energy	10,806	4,947
Mobile–Passenger Vehicles	15,098	9,811
Mobile–Trucks	69,786	40,127
Waste	2,271	2,001
Water	1,969	1,969
Amortized Construction Emissions	611	611
Total	**100,540**	**59,467**
Reduction from BAU		41,074
Percent Reduction		40.9%
City of Visalia Significance Threshold		30%
Valley Air District Significance Threshold		29%
Are emissions significant?		**No**

Notes:
BAU = Business as Usual
MT CO_2e = metric tons of carbon dioxide equivalent
The project achieves the Valley Air District 29 percent reduction from BAU threshold, and the 21.7 percent required to show consistency with AB 32 targets.
Source of BAU emissions: CalEEMod output using 2005 modeling year to represent emissions in 2020 without regulations (Appendix A).
Source of 2030 emissions: CalEEMod output (Appendix A).

As shown in Table 32, the proposed project would achieve a reduction of 40.9 percent from BAU by the year 2030 with compliance with applicable regulations and identified project design features incorporated.

Summary

In conclusion, the proposed project would achieve a reduction of 40.9 percent from BAU by the buildout year 2030 with compliance with applicable regulations and identified project design features incorporated.

Based on the foregoing progress, it is reasonable to conclude that the proposed project is consistent with the 2017 Scoping Plan and would contribute a reasonable fair share contribution to achieving the 2030 target. This fair share would be achieved through several mechanisms, including, for example, compliance with increasingly stringent State regulations that apply to new development, such as Title 24 and CALGreen, and regulations on energy production, fuels, and motor vehicles that apply to both new and existing development. Therefore, the proposed project would not generate significant direct or indirect GHG emissions and impacts would be less than significant.

Level of Significance

Less than significant impact.

6.2.2 - Greenhouse Gas Reduction Plans

Impact GHG-2:	**The proposed project would not conflict with any applicable plan, policy or regulation of an agency adopted to reduce the emissions of greenhouse gases.**

Impact Analysis

The following analysis assesses the proposed project's compliance with Consideration No. 3 regarding consistency with adopted plans to reduce GHG emissions. This analysis is accomplished via an assessment of the proposed project's compliance with the Visalia CAP, Scoping Plan measures contained in the 2017 Scoping Plan and 2022 Scoping Plan Update, and the Visalia General Plan.

It should be noted that although the City of Visalia has adopted a CAP in December 2013 as part of the General Plan Update and corresponding EIR, the Visalia CAP does not meet the requirements of a qualified GHG reduction plan, which requires lead agencies to monitor their progress toward achieving and meeting the goals of a CAP. Table 33 assesses project consistency with the Visalia CAP.

Table 33: Consistency with City of Visalia's CAP

CAP Actions	Project Consistency
Energy	
Solar Photovoltaic (PV) Institutional Barrier Removal. The City participated in an initiative called the Southwest Solar Transformation Initiative (SSTI), a regional team of public and private entities committed to advancing solar power adoption across the partner municipalities in the Southwest United States.	**Not Applicable.** This action applies to the City of Visalia and other municipalities, not individual development projects such as the proposed project.

CAP Actions	Project Consistency
Solar PV installations. This action emphasizes the benefit for community members to install solar photovoltaic systems.	**Consistent.** As currently designed, the proposed project would not include solar photovoltaic panels on building rooftops. In addition, the NOP comment letter sent from the Valley Air District recommends that the proposed project include rooftop solar, or solar-ready rooftops, or light colored roofing material. MM GHG-2a would require that the proposed project includes one of the following measures: rooftop solar panels, solar-ready rooftop design, as feasible, or roofing material contains light coloring with a solar reflective index greater than 78. Therefore, with implementation of MM GHG-2a the proposed project would be consistent with this action.
Energy Upgrade CA. Energy Upgrade California™ is a Statewide program that offers incentives to homeowners who complete select energy-saving home improvements on a single-family residence and two to four unit buildings such as a townhouse, condominium, as well as homeowners associations with either single-family homes or two to four unit buildings.	**Not Applicable.** The proposed project would not include residential uses.
Southern California Edison Small Business Direct Install Program. Southern California Edison will provide business owners free energy efficiency evaluations.	**Consistent.** The proposed project tenants would be able to freely consult with SCE to conduct energy efficiency evaluations.
Southern California Gas Weatherization Program. This program offers weatherization upgrades for qualified property owners through the SoCalGas Energy Savings Assistance Programs.	**Not Applicable.** As a new development the proposed project buildings would be constructed according to Title 24 of the California Building Code standards. As a result, this action would not be necessary because no weatherization upgrades would be needed in brand new buildings.
CSET Weatherization Program. This program offers free weatherization of residential homes for low-income residents.	**Not Applicable.** The proposed project would not include residential uses.
Urban Forestry. The Street Tree Ordinance requires all new commercial and residential development to plant street trees, which can reduce electricity use due to shade reducing the need to cool buildings.	**Consistent.** The proposed project would include drought tolerant landscaping throughout the project site consistent with the City of Visalia Tree Ordinance.
Compact Fluorescent Light (CFL) Bulbs. Encourage the use of CFLs throughout the community.	**Consistent.** The proposed project would as a new development be constructed according to the latest adopted version of Title 24 of and the CalGreen Building Code Standards. These standards include requirements on energy efficient lighting fixtures, which would reduce energy demand.
Transportation	
Sequoia National Park Shuttle Bus. In 2007, the City began running a shuttle service from Visalia to	**Not Applicable.** This action would be implemented by the City of Visalia.

CAP Actions	Project Consistency
Sequoia National Park. Sequoia Shuttle's external shuttle service provides affordable, convenient, and comfortable transportation from Visalia to the majestic Sequoia National Park, seven days a week, during summer. Though most park visitors arrive by private vehicle, the increasing number of motor vehicles in the nation's parks threatens the very resources the parks were intended to protect. Sequoia National Park receives over 1 million visitors every year. More visitors results in more traffic on park roads and parking areas, resulting in lengthy delays and roadway congestion. This congestion translates to air and noise pollution which threatens the fragile natural and cultural resources within the parks. Sequoia Shuttle also operates four free in-park routes within Sequoia National Park. No tickets are required, and bus stops are clearly marked throughout the park. This bus service currently consists of a fleet of 12 gasoline-driven buses that operate 109 days of the year. The annual average ridership for this bus service is approximately 7,041.	
Bicycle Path Expansion. Visalia has an excellent system of multi-use paths that are well suited to biking. Currently, the cumulative distance of bicycle paths and trails within the City total 27.7 miles. Through acquisition and construction, the City plans on extending the total distance of bicycle paths, lanes and trails to 140 miles by 2020 and will continue expanding bicycle paths through 2030.	**Not Applicable.** This action would be implemented by the City of Visalia.
Vi-Cycle Pilot Program. The City of Visalia believes in the benefits of bikes, buses, and hybrid vehicles. Reducing our dependency on automobiles can help conserve natural resources and improve air quality. The City's "Vi-Cycle" program takes recovered bicycles from the Police Department, Transit and other sources, refurbishes them and then distributes them to businesses for use by employees or customers in the community. This program is intended to reduce car emissions and congestion, save money, improve air quality and utilize recycled bicycles in the community. The City hopes to keep expanding the program through 2020 and 2030.	**Not Applicable.** This action would be implemented by the City of Visalia.

CAP Actions	Project Consistency
Dare to Spare Program. Dare to Spare Challenge is a City-wide challenge implemented by the City's Transit Division that encourages teamwork, rewards clean practices, and educates the community on the simple things we can do to positively impact air quality.	**Not Applicable.** This action would be implemented by the City of Visalia.
Increase in Transit Ridership (City Transit Buses). The City has been working hard to promote the use of the City's public transit systems, in particular transit bus services. For example, Visalia Transit hosted the "Make an Impression" campaign where over 80 green footprints were painted around town prompting the largest Earth Day event to date and Transit continues to be an annual Earth Day participant. Visalia Transit also utilizes social media, and has a very active and ever-growing Facebook page that interacts with fans each day, giving them different tips, facts, updates and promotions.	**Not Applicable.** This action would be implemented by the City of Visalia.
Traffic Light Synchronization. The City of Visalia will be installing advanced technology systems and implementing effective management strategies in order to improve the operational efficiency of transportation systems and the movement of people, goods, and services, including synchronization of traffic lights and signals.	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.
Waste and Resource Conservation	
Waste-To-Energy Program. The Waste-to-Energy Program began in 2005. The City of Visalia belongs to the Consolidated Waste Management Authority, a joint powers authority (includes seven cities and Tulare County) that ships a small percentage of its solid waste to be incinerated at a transformation facility in Long Beach. Based on estimates from 2006-2009, approximately 1,416 tons of waste from Visalia are incinerated each year. This percentage is subject to change, however, in subsequent years, depending on funding that is available. The program ended in 2009.	**Not Applicable.** This program no longer exists according to the CAP.
Construction and Demolition Recycling. Visalia's C&D debris recycling program began in 2006. It requires all major construction and demolition related projects in the City to recycle their waste including, waste building materials, packaging, and rubble resulting from construction, remodeling, repair, and demolition operations on pavements and structures. The requirement for C&D debris	**Consistent.** The proposed project contractor would be required to comply with these and all other applicable construction and demolition recycling requirements through the issuance of construction and grading permits.

CAP Actions	Project Consistency
recycling for the City is 50 percent of all C&D waste generated.	
Yard Waste/Food Scrap Composting. The City of Visalia has had a yard waste collection service specifically for the residential sector since 1985. The yard waste program was expanded to service the commercial sector in 2006. To promote this new service, the City implemented a commercial green waste/recycling audit program where the City visits individual businesses, studies their waste stream, and makes recommendations on how local businesses can save money by reducing the landfill solid waste content by increasing their green waste and recycling content. The City continues to offer the audit program to local businesses. The City's yard waste service was yet again expanded to include food scrap composting in 2009 with the start of a pilot program for the residential sector. The program was expanded to the commercial sector in 2010. Starting in 2012, the City's Natural Resource Conservation Division and Solid Waste Division began targeting commercial accounts that would benefit from adding food scrap composting services. The City will continue to offer commercial waste audits and utilize every opportunity to educate the community on the benefits of yard/food waste composting.	**Consistent.** With respect to the removal of the existing orchards, green waste would be removed by construction contractors consistent with City requirements. In terms of operation, the proposed project would include typical landscaping maintenance and yard waste procedures, which would be disposed of according to the applicable City of Visalia requirements including, among others, those addressing the City's audit program.
Energy Systems	
Energy Star Appliances and Equipment: Promote purchasing of energy efficient (e.g., ENERGY STAR) home and office appliances and equipment.	**Consistent.** The proposed project would be required to comply with the then-current Title 24 requirements (including those involving energy efficiency measures) and would consider Energy efficient Starr Appliances and Equipment, where feasible.
Community-wide Solar PV Bulk Purchasing: Continue to promote community-wide rooftop solar. Continue exploring the potential to collaborate with regional partners on a community- wide solar bulk purchase program.	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.
Property Assessed Clean Energy (PACE) Program: Work to establish PACE financing which supports energy efficiency and renewable energy projects by providing up-front capital that is subsequently paid back through a special assessment on participants' property taxes, to be implemented in conjunction with SCE incentive opportunities.	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.
Energy Efficiency Marketing and Programs: Providing public education on the need for energy efficiency, emissions reduction programs, and cost	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.

CAP Actions	Project Consistency
savings associated with energy- efficient buildings; continue co-branding programs with the VIEW, SCE and SoCalGas through Public Goods Funds, facility benchmarking through AB1103, and other energy efficiency program opportunities	
Visalia Unified School District (VUSD) Solar Program: Through various funding sources, the VUSD has installed and will continue to implement renewable energy opportunities at school facilities.	**Not Applicable.** This action would be implemented by the VUSD, not individual development projects such as the proposed project.
Water Resource and Conservation	
Water Efficient Landscaping Policy: Continue working to reduce the amount of water used for landscaping through the development of a local Water Efficient Landscape Ordinance, updates to the Landscape Standards, and enforcement of the Water Conservation Ordinance	**Consistent.** The proposed project would be required to adhere to all landscape and water conservation standards and measures, including, among others, inclusion of drought tolerant landscaping consistent with applicable provisions of the City of Visalia Municipal Code.
Water Efficient Landscaping Promotion and Education: Educate the community on the benefits of using low- maintenance landscaping.	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.
Transportation and Land Use	
Transit Oriented Development: Investigate and integrate transit oriented development into all of the City's relevant long-term planning goals and projects when applicable.	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.
Plug-in Electric Vehicle (PEV) Charging Stations: Continue working to expand the deployment of PEV through the development of infrastructure, including the installation of two PEV charging stations each at the transit parking lot and the two public parking structures.	**Consistent.** The proposed project would include MM AIR-2d, which would require each relevant the project applicant to include infrastructure for EV charging stations into a minimum of 20 percent of all vehicle parking spaces (including parking for trucks) in connection with each individual specific development proposal, consistent with the applicable California Green Building Standards (CALGreen) Code Tier 1 Nonresidential Mandatory Measure (Section A5.106.5.3). MM AIR-2d would require the design of the buildings' electrical room to hold additional panels that may be needed to supply power for the future installation of EV truck charging stations on-site. As a result, the proposed project would be consistent with this action by facilitating not inhibit this action intended to expand the deployment of EV charging infrastructure.
Local, Low-Carbon Transportation Education: Educate citizens on options for utilizing local, low-carbon transportation.	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.
Infill and Higher Density Development: Through the 2030 General Plan Update and other tools, the City will continue to promote infill development	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.

CAP Actions	Project Consistency
CNG Public Fueling Stations: The City will continue to remove barriers to the installation of public CNG fueling stations, and work with community stakeholders to advance the utilization of CNG as a cleaner alternate fuel source.	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.
Anaerobic Digestion. Commercial compost will be processed through anaerobic digesters by 2015 and all other green waste and food scraps will be processed by anaerobic digesters by 2018.	**Not Applicable.** This action would be implemented by the City of Visalia, not individual development projects such as the proposed project.
Source: Strategic Energy Innovations (SEI). 2013. City of Visalia Climate Action Plan. December. Website: https://www.visalia.city/civicax/filebank/blobdload.aspx?blobid=28939. Accessed February 7, 2023.	

As described in Table 33, although many actions in the City of Visalia's CAP would not apply as they are intended to be actions taken by the City as opposed to being implemented by individual development projects, the proposed project would be consistent with nearly all the City of Visalia CAP actions applicable to individual development, given the nature of the proposed project including the incorporation of identified design features, as well as assumed implementation of recommended mitigation measures except CAP Action–Solar Panels. As currently designed, the proposed project would not include solar panels or solar-ready rooftop infrastructure, resulting in a potentially significant impact due to inconsistency with the CAP. However, implementation of MM GHG-2a would require the proposed project to include rooftop solar panels, solar-ready rooftop design, as feasible, or roofing material contains light coloring with a solar reflective index greater than 78 upon issuance of building permit. Therefore, impacts related to consistency with the Visalia CAP would be less than significant with implementation of mitigation.

Consistency with California's Post-2020 Targets

The State's executive branch adopted several Executive Orders related to GHG emissions. Executive Orders S-3-05 and B-30-15 are two examples. Executive Order S-3-05 sets goals to reduce emissions to 1990 levels by 2020 and 80 percent below 1990 levels by 2050. The goal of Executive Order S-3-05 to reduce GHG emissions to 1990 levels by 2020 was codified by AB 32. The proposed project, as analyzed above, is consistent with AB 32. Therefore, the proposed project does not conflict with this component of Executive Order S-3-05. Executive Order B-30-15 establishes an interim goal to reduce GHG emissions to 40 percent below 1990 levels by 2030.

The 2030 goal was codified under SB 32 and is now addressed by the 2017 Scoping Plan Update. The 2017 Scoping Plan includes methodologies and threshold approaches required to determine the fair-share contributions City development projects would need to make to achieve the 2030 target. In the meantime, however, the discussion under "Consistency with SB 32" below addresses the consistency of the proposed project with SB 32, which provides the statutory underpinning of the 2017 Scoping Plan. The SB 32 target requires GHG emissions to be reduced from 1990 levels. No consensus has been reached around the State on a new quantitative target for new development based on consistency with the SB 32 targets.

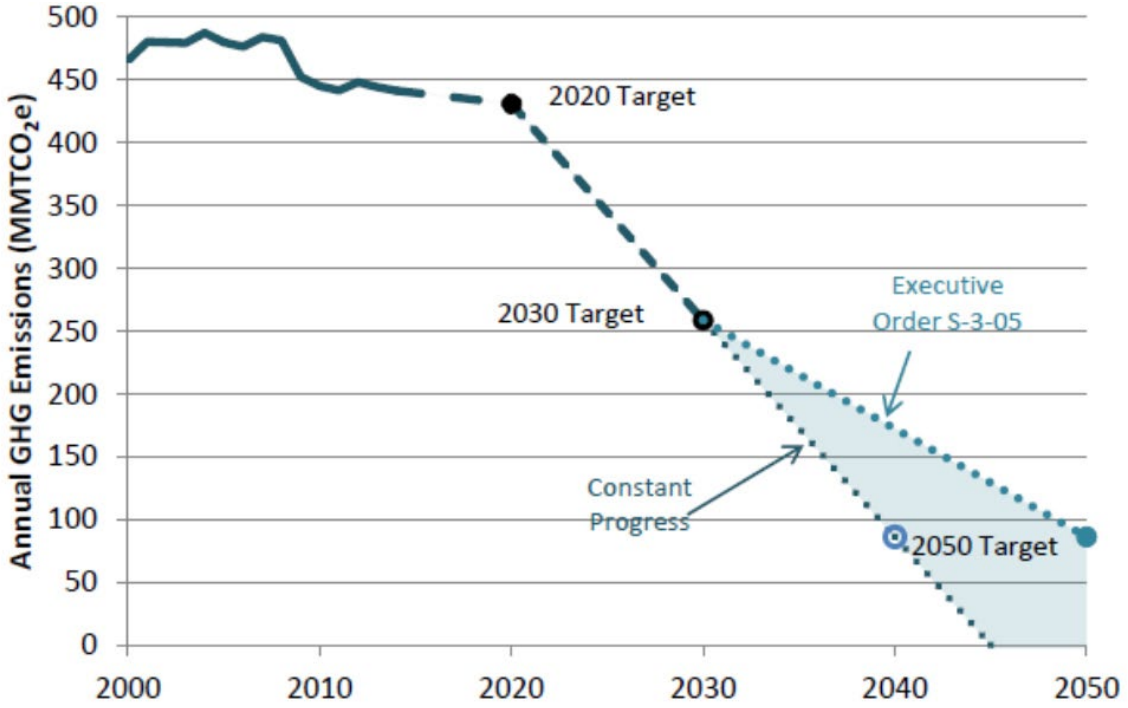
The Executive Order S-3-05 2050 target has not been codified by legislation. Studies have shown that, in order to meet the 2050 target, aggressive pursuit of technologies in the transportation and energy sectors, including electrification and the decarbonization of fuel, will be required. Because of the technological shifts required and the unknown parameters of the regulatory framework in 2050, quantitatively analyzing the project's impacts further relative to the 2050 goal is speculative for purposes of CEQA.[80]

The ARB recognizes that AB 32 establishes an emissions reduction trajectory that will allow California to achieve the more stringent 2050 target: "These [GHG emission reduction] measures also put the State on a path to meet the long-term 2050 goal of reducing California's GHG emissions to 80 percent below 1990 levels. This trajectory is consistent with the reductions that are needed globally to stabilize the climate." In addition, the ARB's First Update "lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050," and many of the emission reduction strategies recommended by ARB would serve to reduce the proposed project's post-2020 emissions level to the extent applicable by law:

- **Energy Sector:** Continued improvements in California's appliance and building energy efficiency programs and initiatives, such as the State's zero-net-energy building goals, would serve to reduce the proposed project's emissions level. Additionally, further additions to California's renewable resource portfolio would favorably influence the project's emissions level.
- **Transportation Sector:** Anticipated deployment of improved vehicle efficiency, zero-emission technologies, lower carbon fuels, and improvement of existing transportation systems all will serve to reduce the project's emissions level.
- **Water Sector:** The project's emissions level will be reduced as a result of further desired enhancements to water conservation technologies.
- **Waste Management Sector:** Plans to further improve recycling, reuse and reduction of solid waste will beneficially reduce the project's emissions level.

For the reasons described above the proposed project's post-2020 emissions trajectory is expected to follow a declining trend, consistent with the 2030 and 2050 targets. The trajectory required to achieve the post-2020 targets is shown in Figure 5.

[80] California Air Resources Board (ARB). 2014. First Update to the Climate Change Scoping Plan. Website: http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm. Accessed February 5, 2020.



Source: California Air Resources Board (ARB). 2017. The 2017 Climate Change Scoping Plan Update. January 20. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed January 5, 2023.

Figure 5: California's Path to Achieving the 2050 Target

In his January 2015 inaugural address, former Governor Brown expressed a commitment to achieve "three ambitious goals" that he would like to see accomplished by 2030 to reduce the State's GHG emissions:

- Increasing the State's RPS from 33 percent in 2020 to 50 percent in 2030;
- Cutting the petroleum use in cars and trucks in half; and
- Doubling the efficiency of existing buildings and making heating fuels cleaner.

These expressions of executive branch policy may be manifested in adopted legislative or regulatory action through the State agencies and departments responsible for achieving the State's environmental policy objectives, particularly those relating to global climate change.[81]

Further, recent studies show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 80 percent below 1990 levels by 2050. Even though these studies did not provide an exact regulatory and technological roadmap to achieve the 2030 and 2050 goals, they demonstrated that various combinations of policies could allow the Statewide emissions level to remain very low through 2050,

[81] Brown, Edmund G. Jr. 2015. Press Release: California Establishes Most Ambitious Greenhouse Gas Goal in North America. April 29. Website: https://www.gov.ca.gov/news.php?id=18938. Accessed January 6, 2018.

suggesting that the combination of new technologies and other regulations not analyzed in the studies could allow the State to meet the 2050 target.[82]

Given the proportional contribution of mobile source-related GHG emissions to the State's inventory, recent studies also show that relatively new trends—such as the increasing importance of web-based shopping, the emergence of different driving patterns, and the increasing effect of web-based applications on transportation choices—are beginning to substantially influence transportation choices and the energy used by transportation modes. These factors have changed the direction of transportation trends in recent years and will require the creation of new models to effectively analyze future transportation patterns and the corresponding effect on GHG emissions. For the reasons described above the proposed project's post-2020 emissions trajectory is expected to follow a declining trend, consistent with the 2030 and 2050 targets.

Consistency with SB 32

As discussed previously, the 2022 Climate Change Scoping Plan Update was adopted on December 15, 2022. Appendix D of the Scoping Plan explains that local government actions, such as the City of Visalia, are crucial to achieving the State's climate goals. The actions of the 2022 Scoping Plan are focused on GHG reductions in the building and transportation sector, which are primarily associated with residential and mixed-use development, not light industrial development such as the proposed project. As such, a discussion of the 2017 Scoping Plan's strategies and measures are discussed further. The 2017 Climate Change Scoping Plan Update (2017 Scoping Plan) includes the strategy that the State intends to pursue to achieve the 2030 targets of Executive Order S-3-05 and SB 32.

Table 34 provides an analysis of the proposed project's consistency with the 2017 Scoping Plan Update measures.

Table 34: Consistency with SB 32 2017 Scoping Plan Update

Scoping Plan Measure	Project Consistency
SB 350 50 percent Renewable Mandate. Utilities subject to the legislation will be required to increase their renewable energy mix from 33 percent in 2020 to 50 percent in 2030.	**Not applicable.** This measure would apply to utilities and not to individual development projects. However, the proposed project would be required to purchase electricity from a utility subject to the SB 350 Renewable Mandate and the RPS requirements. SB 100 has increased the 2030 RPS standards to 60 percent by 2030, superseding the increase required by SB 350.
SB 350 Double Building Energy Efficiency by 2030. This is equivalent to a 20 percent reduction from 2014 building energy usage compared to current projected 2030 levels.	**Not applicable**. This measure applies to existing buildings. New structures are required to comply with Title 24 Energy Efficiency Standards that are expected to increase in stringency over time. However, the proposed project would be required to comply with the applicable Title 24 Energy Efficiency Standards in effect at the time building permits are received.

[82] Energy and Environmental Economics. 2015. Pathways to Deep Decarbonization in the United States. Website: http://deepdecarbonization.org/wp-content/uploads/2015/11/US_Deep_Decarbonization_Technical_Report_Exec_Summary.pdf. Accessed February 5, 2020.

Scoping Plan Measure	Project Consistency
Low Carbon Fuel Standard. This measure requires fuel providers to meet an 18 percent reduction in carbon content by 2030.	**Not applicable.** This is a Statewide measure that cannot be implemented by a project applicant or lead agency. However, vehicles accessing the project site would benefit from the standards.
Mobile Source Strategy (Cleaner Technology and Fuels Scenario). Vehicle manufacturers will be required to meet existing regulations mandated by the LEV III and Heavy-Duty Vehicle programs. The strategy includes a goal of having 4.2 million ZEVs on the road by 2030 and increasing numbers of ZEV trucks and buses.	**Consistent with mitigation incorporated**. The proposed project is industrial in nature and would support truck and freight operations. It is expected that deliveries throughout the State would be made with an increasing number of ZEV delivery trucks, including trips that would be coming to and from the project site. The proposed project would not inhibit the Mobile Source Strategy because the implementation of MM AIR-2d would require the project applicant to include infrastructure for EV charging stations, including for trucks, into a minimum of 20 percent of all vehicle parking spaces (including parking for trucks), consistent with the applicable CALGreen Tier 1 Nonresidential Mandatory Measure. MM AIR-2d would also require the design of the buildings' electrical room to hold additional panels that may be needed to supply power for the future installation of EV truck charging stations on-site. As such, future ZEVs could access the project site to charge batteries as part of normal goods delivery operations.
Sustainable Freight Action Plan. The plan's target is to improve freight system efficiency 25 percent by increasing the value of goods and services produced from the freight sector, relative to the amount of carbon that it produces by 2030. This would be achieved by deploying over 100,000 freight vehicles and equipment capable of zero-emission operation and maximize near-zero-emission freight vehicles and equipment powered by renewable energy by 2030.	**Consistent with mitigation incorporated.** This measure applies to owners and operators of trucks and freight operations. The proposed project is industrial in nature and would support truck and freight operations. The proposed project would implement MM AIR-2e, which would require the project applicant to include infrastructure for EV charging stations, including for trucks, into a minimum of 20 percent of all vehicle parking spaces (including parking for trucks), consistent with the applicable CALGreen Tier 1 Nonresidential Mandatory Measure. Additionally, MM AIR-2c would require (1) that all on-site off-road and on-road service equipment be zero-emission or all-electric and (2) that all project buildings would be designed to support the use of zero-emission or all-electric service equipment. These measures would support the sustainable Freight Action Plan by providing EV charging infrastructure and zero-emission support equipment.
Short-Lived Climate Pollutant (SLCP) Reduction Strategy. The strategy requires the reduction of SLCPs by 40 percent from 2013 levels by 2030 and the reduction of black carbon by 50 percent from 2013 levels by 2030.	**Consistent.** The proposed project would not include major sources of black carbon. This measure revolves around the ARB's SLCP Reduction Strategy that was released in April 2016 as a result of SB 650. SB 650 required the State to develop a strategy to reduce emissions of SLCPs. DPM reductions have come from strong efforts to reduce on-road vehicle emissions. Car and truck engines used to be the largest sources of

Scoping Plan Measure	Project Consistency
	anthropogenic black carbon emissions in California, but the State's existing air quality policies will virtually eliminate black carbon emissions from on-road diesel engines within 10 years. These policies are based on existing technologies.
SB 375 Sustainable Communities Strategies. Requires Regional Transportation Plans to include a Sustainable Communities Strategy for reduction of per capita vehicle miles traveled.	**Not applicable.** This measure applies to the public agencies involved in adopting and implementing RTP/SCS and is not intended to be implemented by individual development projects.
Post-2020 Cap-and-Trade Program. The Post 2020 Cap-and-Trade Program continues the existing program for another 10 years. The Cap-and-Trade Program applies to large industrial sources such as power plants, refineries, and cement manufacturers.	**Not applicable.** The proposed project is not one targeted by the cap-and-trade system regulations, and, therefore, this measure does not apply to the project. However, the post-2020 Cap-and-Trade Program indirectly affects people and entities who use the products and services produced by the regulated industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers.
Natural and Working Lands Action Plan. The ARB is working in coordination with several other agencies at the federal, State, and local levels, stakeholders, and with the public, to develop measures as outlined in the Scoping Plan Update and the Governor's Executive Order B-30-15 to reduce GHG emissions and to cultivate net carbon sequestration potential for California's natural and working land.	**Not Applicable**. The project site is in a built-up urban area and would not be considered natural or working lands.
Source: California Air Resources Board (ARB). 2017. California's 2017 Climate Change Scoping Plan. November. Website: https://ww3.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf. Accessed January 13, 2020.	

Regarding goals for 2050 under Executive Order S-3-05, at this time it is not possible to quantify the emissions savings from future regulatory measures, as they have not yet been developed; nevertheless, it is reasonable to assume that operation of the proposed project would be required to comply with then-applicable measures that are enacted by State lawmakers to lead to an 80 percent reduction below 1990 levels by 2050. In its 2008 Scoping Plan, the ARB acknowledged that the "measures needed to meet the 2050 are too far in the future to define in detail." In the First Scoping Plan Update, however, the ARB generally described the type of activities required to achieve the 2050 target: "energy demand reduction through efficiency and activity changes; large scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and rapid market penetration of efficiency and clean energy technologies that requires significant efforts to deploy and scale markets for the cleanest technologies immediately." The 2017 Scoping Plan provides an intermediate target that is intended to achieve reasonable progress toward the 2050 target.

2022 Scoping Plan

As explained earlier, the 2022 Scoping Plan addresses the recent signing of AB 1279, which codified Executive Order B-55-18's target for California to achieve and maintain carbon net neutrality by 2045 (equivalent to a reduction in Statewide anthropogenic GHG emissions of 85 percent below 1990 levels). The 2022 Scoping Plan establishes a scenario by which the State may achieve this goal by 2045 or earlier.

The 2022 Scoping Plan reaffirms and clarifies the role of local governments in achieving the State's climate goals, particularly as it concerns the approval of new land use development projects and their environmental review under CEQA. It outlines three distinct approaches that lead agencies may consider for evaluating the consistency of proposed plans and residential and mixed-use development projects with the State's climate goals:

- The first approach involves consistency with a GHG reduction plan, such as a CEQA-qualified CAP.
- The second approach involves determining whether a project would result in net-zero GHG emissions.
- The third approach involves assessing a project's consistency with key project attributes that have been demonstrated to reduce operational GHG emissions while advancing fair housing.

In other words, the 2022 Scoping Plan considers these approaches to evaluate whether a project may have a less than significant impact on GHG emissions. The proposed project is evaluated against the third approach because no CEQA-qualified CAP would be applicable to the City of Visalia and the project and the proposed project would not result in net-zero GHG emissions. Although the proposed project is not residential in nature, an evaluation of the project's consistency with the 2022 Scoping Plan by assessing the project's consistency with key project attributes identified in the 2022 Scoping Plan remains a valid approach. An evaluation of the project's consistency with the Scoping Plan serves as a roadmap for evaluating a project's current design, and to determine whether it complies with current policies and planned reduction measures for GHG emissions. The comparison of a project design to Scoping Plan proposals is not by itself a metric for determining project-level significance, but a step in showing how the project supports current regulations and is aligned with future GHG reduction strategies in development stages. The 2022 Scoping Plan acknowledges that projects incorporating some, but not all, of the key project attributes may also be consistent with the State's climate goals, at the discretion of the lead agency. Furthermore, consistency with other attributes of the 2022 Scoping Plan would reduce operational GHG emissions, as described in Table 35, by reducing operational energy use and increasing access to EV charging infrastructure.

Table 35 presents the project's consistency with the 2022 Scoping Plan.

Table 35: Consistency with 2022 Scoping Plan Update

Scoping Plan Measure	Project Consistency
Light-Duty Vehicles: Smart Growth/Reduce Vehicle Miles Traveled. VMT per capita reduced 25 percent below 2019 levels by 2030, and 30 percent below 2019 levels by 2045.	**Consistent.** Based on the quantitative VMT analysis and described in Section 3.15 Transportation of the Draft EIR, the proposed project would have a less than significant VMT impact with implementation of mitigation measures to provide end-of-tip bicycle facilities and expanding the bicycle network.
Deploy ZEVs. Medium-Heavy and Heavy Heavy-Duty Trucks. This measure is supported by Executive Order N79-20 and plans in the AB 74 ITS Report: 100 percent of MD/HDV sales are ZEV by 2040. It does not depend on VMT reductions from the freight and truck transportation sector.	**Consistent with mitigation.** Medium-heavy and heavy heavy-duty trucks would be compliant with truck Fuel Economy Standards: California Phase II GHG Standards and would transition to ZEV by 2045. Infrastructure for the proposed project would be required to support this transition to ZEV; as such, MM AIR-2d and MM GHG-2b are required to demonstrate consistency with this measure. Implementation of MM AIR-2d would require the project applicant to include infrastructure for EV charging stations, including for trucks, into a minimum of 20 percent of all vehicle parking spaces (including parking for trucks), consistent with the applicable CALGreen Tier 1 Nonresidential Mandatory Measure. Moreover, MM AIR-2d would require the any buildings that would include tractor trailer parking spaces would include an electrical room that is sufficiently sized to hold additional electrical panels that may be needed to supply power for the future installation of EV truck charging stations.
Coordinate supply of liquid fossil fuels with declining CA fuel demand. This measure involves the phase out oil and gas extraction operations by 2045 as well as CCS on majority of petroleum refining operations by 2030 Interim goals are to reduce petroleum production reduced in line with its demand.	**Not Applicable.** The proposed project would include light industrial land uses and is not related to the petroleum industry.
Low Carbon Fuels for Fuels for Buildings and Industry. In 2030s renewable natural gas (RNG) blended in pipeline, ramping up to 2040. Dedicated hydrogen pipelines constructed to serve certain industrial clusters	**Consistent.** Natural gas utilized by the proposed project would contain this RNG blend as implemented by the Scoping Plan and the energy providers.
Low Carbon Fuels for Transportation. Biomass supply is used to produce conventional and advanced biofuels, as well as hydrogen.	**Consistent.** Off-road construction equipment would utilize renewable diesel in compliance with the In-Use Off-Road rule. On-road diesel trucks would also utilize these fuels consistent with the LCFS.
Generate clean electricity. Electric sector GHG target of 38 MMTCO2e in 2030 and 31 MMTCO2e7 in 2045. This GHG target is determined to meet the loads associated with the scenario and corresponds to meeting the 2021 SB 100 Joint Agency Report's 100	**Not Applicable**. The proposed project will benefit indirectly from these goals, however, there are no actions related to the project itself, because this measure would apply to passenger vehicle producers.

Scoping Plan Measure	Project Consistency
percent of retail sales with eligible renewable and zero-carbon resources definition.	
Decarbonize industrial energy supply. Electrification goals by industry sector specific to Food Industry, Agriculture, and Chemical and Allied Products and Pulp and Paper Industry for milestone years 2030 and 2045. Other Industrial Manufacturing: 0 percent energy electrified by 2030 and 50 percent by 2045. Construction Equipment: 25 percent energy demand electrified by 2030 and 75 percent by 2045. Retire all combined heat and power facilities by 2040.	**Consistent**. Construction equipment used for the proposed project would comply with ARB off-road regulations meeting milestones for electrification as required by regulations as promulgated. Starting in 2024, amendments to the off-road In-Use Diesel Rule require use of renewable diesel consistent with the 2022 Scoping Plan and implementing the LCFS. Other portions of this measure are not applicable to the proposed project.
Decarbonize buildings. All electric appliances beginning 2026 (residential) and 2029 (commercial), contributing to 6 million heat pumps installed Statewide by 2030.	**Consistent with Mitigation.** The proposed project is consistent with the AB197 commercial timeline. In addition, the proposed project would be required to comply with CALGreen measures for 2022 as part of MM GHG-2a, which require rooftop PV solar panels with battery storage for warehouses and heat pumps (in all climate zones) for office space in warehouses consistent with decarbonization strategies.
Reduce non-combustion emissions. This strategy involves a number of sectors and measures: • Increase landfill and dairy digester methane capture. • Capture of fugitive methane emissions from the oil and gas infrastructure components. • The introduction of low GWP refrigerants introduced as building electrification increases mitigating HFC emissions.	**Consistent.** The proposed project would use low GWP refrigerants as part of the building design consistent with current California Significant New Alternatives Policy (SNAP) regulations. Note, no cold storage is proposed as part of the project.
Compensate for remaining emissions. This measure encompasses using Carbon Dioxide Removal (CDR) to compensate for remaining emissions. Targets are demonstration projects by 2030 and CDR scaled to compensate for remaining GHG emissions in 2045.	**Not applicable.** This measure relates to remaining emissions and is not applicable at the individual project level.
Source: California Air Resources Board (ARB). 2022. Scoping Plan for Achieving Carbon Neutrality. November.	

Although not quantified in this analysis, the MM GHG-2a would be required to ensure the implementation of one of the following as feasible: rooftop photovoltaic solar system, solar-ready rooftop design, or roofing material contains light coloring with a solar reflective index greater than 78. MM GHG-2a would further reduce GHG emissions due to a reduction in electricity demand and ensure that the proposed project and City would contribute to meeting the State's climate goals. Also, MM AIR-2c, -2d, -2e, and -2f, would all reduce GHG emissions by requiring zero-emission on-site equipment rather than diesel-powered on-site equipment, reduce idling of all vehicles by signaling the most efficient routes of travel on-site, improving access to EV charging infrastructure,

and installing a vegetative buffer that would result in minor carbon sequestration on-site. Additionally, MM GHG-2b is required to ensure that the proposed project would not hinder the future transition to ZEV trucks. Accordingly, taking into account the proposed project's identified design features and the progress being made by the State toward reducing emissions in key sectors such as transportation, industry, and electricity, the proposed project would be consistent with State GHG Plans and would further the State's goals of reducing GHG emissions 40 percent below 1990 levels by 2030, 80 percent below 1990 levels by 2050, 85 percent below 1990 levels by 2045, and does not obstruct their attainment after incorporation of mitigation.

City of Visalia General Plan

As described previously, the City of Visalia General Plan was updated and adopted on October 14, 2014 and establishes objectives and policies that are relevant to GHG emissions. Specifically, General Plan Objective AQ-O-3 aims to, "reduce emissions of greenhouse gases that contribute to global climate change in accord with federal and State law." The General Plan includes several policies to address GHG emissions, but the only policy that would apply to individual development projects, such as the proposed project, would be AQ-P-12. Policy AQ-P-12 encourages the implementation of a VERA for individual development project. As discussed previously, MM AIR-2g would require the proposed project to discuss the feasibility of implementing a VERA with the City of Visalia Planning Division. As a result, the proposed project would not conflict with this General Plan policy. Therefore, the proposed project would not conflict with the General Plan and impacts would be less than significant.

Level of Significance Before Mitigation

Potentially Significant

Mitigation Measure

Implement MM AIR-2c, -2d, -2e, -2f, and the mitigation measure listed below.

MM GHG-2a Rooftop Solar

Prior to issuance of the first building permit in connection with an individual specific development proposal, the relevant project applicant shall provide the City of Visalia Planning Department reasonable documentation demonstrating that each of the buildings that are covered by the subject individual specific development proposal would be designed with one of the following: (i) rooftop photovoltaic solar panels, (ii) solar-ready rooftop design that shall support the installation of rooftop photovoltaic panel, as feasible, or (iii) roofing material contains light coloring with a solar reflective index greater than 78.

MM GHG-2b If the warehouse is used for cold storage, then prior to the issuance of occupancy permits, the City of Visalia shall confirm that tenant lease agreements include contractual language that requires all Transport Refrigeration Units (TRUs) entering the project site be plug-in capable. Electrical hookups shall be provided as part of the tenant improvements for any tenant that requires cold storage. The electrical

hookups shall be provided at loading bays for truckers to plug in any onboard auxiliary equipment and power refrigeration units while their truck is stopped.

Level of Significance After Mitigation

Less than significant impact.

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SECTION 7: ENERGY IMPACT ANALYSIS

7.1 - CEQA

CEQA defines a significant effect on the environment as "a substantial, or potentially substantial, adverse change in the environment." To determine whether a project would have a significant impact on Energy, the type, level, and impact of emissions generated by the project must be evaluated.

The following Energy significance thresholds are contained in Appendix G of the CEQA Guidelines, which were amendments adopted into the Guidelines on March 18, 2010, pursuant to SB 97. A significant impact would occur if the proposed project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

7.2 - Impact Analysis

7.2.1 - Project Energy Consumption

Impact ENER-1:	**The proposed project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during construction or operation.**

Impact Analysis

A discussion of the proposed project's anticipated energy usage is presented below. Energy use consumed by the proposed project was estimated and includes natural gas, electricity, and fuel consumption for project construction and operation. Energy calculations are included as part of Appendix D.

Construction Impacts

For purposes of a conservative analysis, the anticipated construction schedule for all three phases of development was assumed to begin in March 2024 and conclude in March 2028. It is important to note that if the construction schedule were to move to later year(s), construction energy demand would likely decrease because of improvements in technology and more stringent regulatory requirements as older, less efficient equipment is replaced by newer and cleaner equipment. Even in a scenario where all three construction phases overlap, the impacts related to energy consumption would not be materially different from the phased construction analyzed here. That is because concurrent construction would not result in an increased use of fuel and electricity beyond that needed for a phased construction. The proposed project would require demolition, site preparation, grading, building construction, architectural coating, and paving. The construction phase would require energy for the manufacture and transportation of building materials, preparation of the project site (e.g., demolition, site clearing, and grading), and the actual construction of the buildings

and related on- and off-site improvements and infrastructure. Petroleum-based fuels such as diesel fuel and gasoline would be the primary sources of energy for these tasks.

The types of on-site equipment used during construction of the proposed project would include gasoline- and diesel-powered construction and transportation equipment, including trucks, bulldozers, frontend loaders, forklifts, and cranes. Construction equipment is estimated to consume a total of approximately 886,679 gallons of diesel fuel over the entire construction duration (Appendix D).

Fuel use associated with construction vehicle trips generated by the proposed project was also estimated; trips include construction worker trips, haul truck trips for material transport, and vendor trips for construction material deliveries. Fuel use from these vehicles traveling to the project site was based on (1) the projected number of trips the proposed project would generate during construction, (2) average trip distances by trip type, and (3) fuel efficiencies estimated in the ARB EMFAC mobile source emission model. The specific parameters used to estimate fuel usage are included in Appendix D. In total, the proposed project is estimated to generate approximately 17,099,450 VMT and a combined approximately 924,696 gallons of gasoline and diesel for vehicle travel during construction.

Other equipment would include construction lighting, field services (office trailers), and electrically driven equipment such as pumps and other tools. Chapter 8.36 of the Visalia Municipal Code defines permissible hours of construction as between the hours of 6:00 a.m. and 7:00 p.m. Monday through Friday and 9:00 a.m. to 7:00 p.m. on Saturday and Sunday.[83] As construction activities would be restricted to these hours, it is anticipated that the use of construction lighting would be relatively minimal. Singlewide mobile office trailers, which are commonly used in construction staging areas, generally range in size from approximately 160 square feet to 720 square feet. A typical 720-square-foot office trailer would consume approximately 6,548 kWh during the 12-month concurrent construction phase (Appendix D).

Limitations on idling of vehicles and equipment along with requirements that equipment be properly maintained would result in fuel savings. Similarly, compliance with applicable State laws and regulations would limit idling from both on-road and off-road diesel-powered equipment and are part of a comprehensive regulatory framework that is implemented by the ARB. Additionally, as a practical matter, it is reasonable to assume that the overall construction schedule and process would be designed and implemented to be efficient as feasible in order to avoid excess monetary costs. For example, equipment and fuel are not typically used wastefully due to the added expense associated with renting the equipment, maintaining it, and fueling it. Therefore, the opportunities for future efficiency gains during construction beyond those already built in due to commercially practicable considerations are relatively limited. For the foregoing reasons, it is anticipated that the construction phase of the proposed project would not result in wasteful, inefficient, and unnecessary consumption of energy. Construction-related energy impacts would be less than significant.

[83] City of Visalia Municipal Code. 2022. City of Visalia Municipal Code, Section 8.36. Website: https://www.nonoise.org/lawlib/cities/ordinances/Visalia,%20California.pdf. Accessed September 29, 2022.

Operational Impacts

The proposed project would consume energy as part of building operations and transportation activities. Project energy consumption is summarized in Table 36; see also Appendix D for additional details in this regard.

Table 36: Estimated Annual Project Energy Consumption

Energy Consumption Activity	Annual Consumption (approximately)
Building Electricity Consumption	34,152,062 kWh/year
Building Natural Gas Consumption	49,385,262 kBTU/year
Total Building Fuel Consumption	7,120,836 gallons of gasoline and diesel
Operational Fuel Consumption–Passenger Vehicles	1,237,261 gallons of gasoline and diesel
Operational Fuel Consumption–Trucks	6,338,908 gallons of gasoline and diesel
Notes: kBTU = kilo-British Thermal Unit kWh = kilowatt-hour VMT = Vehicle Miles Traveled Source: Appendix D.	

Operation of the proposed project would consume an estimated 34,152,062 kWh of electricity and an estimated 49,385,262 kBTU of natural gas on an annual basis. The proposed project's buildings and related improvements and infrastructure would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the State's Building Energy Efficiency Standards. These standards include minimum energy efficiency requirements related to building envelope, mechanical systems (e.g., heating, ventilation, and air conditioning [HVAC] and water heating systems), and indoor and outdoor lighting, are widely regarded as the some of the most advanced and stringent building energy efficiency standards in the country. Moreover, as specified in Chapter 5, Part 11 of the Title 24 standards, the proposed project would be required to incorporate electrical conduit to facilitate future installation of EV charging infrastructure. In addition, as specified in Subchapter 6, Part 6 of the Title 24 standards, the proposed project would be required to either include rooftop solar systems or design the proposed buildings to structurally accommodate future installation of a rooftop solar system. As such, the design of the proposed project would facilitate the future commitment to renewable energy resources. Therefore, building energy consumption would not be considered wasteful, inefficient, or unnecessary.

Project-related vehicle trips would consume an estimated 7,576,169 gallons of gasoline and diesel annually. In addition, the proposed project would include the installation of bicycle parking fixtures consistent with the City of Visalia Municipal Code requirements for new development, encouraging the use of alternative modes of transportation for worker commutes. Regional access to the project site is provided via State Route (SR) 99 (SR-99), which is 0.85 mile to the east of the project site. As a result, the proposed project would be located within 1 mile of a major transportation corridor that provides interstate regional access. Moreover, as discussed in transportation analysis, the proposed

project would be required to implement various Transportation Demand Management (TDM) measures that would contribute to fuel savings through incentives for project staff to utilize non-motorized transportation modes. Furthermore, the proposed project would generate vehicle trips that would travel to other cities and states in order to deliver goods and the location of the proposed project would not result in excessive or wasteful vehicle travel. Thus, transportation fuel consumption would not be wasteful, inefficient, or unnecessary. Impacts would be less than significant.

Level of Significance

Less than significant impact.

7.2.2 - Energy Plan Consistency

Impact ENER-2: The proposed project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

Impact Analysis

The proposed project would be served with electricity provided by SCE. In 2021, SCE obtained 31.4 percent of its electricity from renewable energy sources (14.9 percent solar, 10.2 percent wind, 5.7 percent geothermal, 0.1 percent biomass and biowaste, and 0.5 percent eligible hydroelectric), while the remaining electricity was sourced from nuclear (9.2 percent), natural gas (22.3 percent), large hydroelectric (2.3 percent), and unspecified sources of power (34.8 percent).[84] Therefore, the proposed project's electricity provider does not meet the State's current objective of 33 percent of electricity from renewable energy sources. However, the utility would be required pursuant to applicable laws and regulations to meet the future objective of 60 percent of electricity from renewable energy sources by 2030. As noted above, the proposed project's buildings and related improvements and infrastructure would be designed in accordance with then-current Title 24, California's Energy Efficiency Standards for Nonresidential Buildings. These standards include minimum energy efficiency requirements related to building envelope, mechanical systems (e.g., heating, ventilation, and air conditioning [HVAC] and water heating systems), and indoor and outdoor lighting. Based on the foregoing, including the incorporation of the Title 24 standards into the design of the proposed project, this would ensure that the proposed project would not result in the use of energy in a wasteful manner.

The City of Visalia CAP and General Plan contain policies that are related to energy conservation. While several of these policies are voluntary or cannot be implemented by an individual development project, these policies would contribute toward less water demand, energy efficient operational uses, and reduce the unnecessary use of fuel. For example, the proposed project would be consistent with CAP actions related to Energy by including MM GHG-2a, which would require rooftop solar panel systems, solar-ready rooftop design, as feasible, or roofing material contains light coloring with a solar reflective index greater than 78. In addition, the proposed project would be consistent with other CAP actions related to reduction energy consumption such as, including

[84] California Energy Commission. 2021. Annual Power Content Labels for 2021. Website: https://www.sce.com/sites/default/files/custom-files/Web%20files/2021%20Power%20Content%20Label.pdf. Accessed January 18, 2023.

drought tolerant landscaping that requires less water demand and consequently less electricity to convey that water to the project site.

Additionally, compliance with then-current Title 24 standards would ensure that the proposed project would not conflict with any of the General Plan energy conservation policies related to the proposed project's building envelope, mechanical systems, and indoor and outdoor lighting.

The proposed project would be required to comply with applicable State energy standards and with relevant energy conservation policies contained in the Visalia General Plan. As such, the proposed project would not conflict with State or local renewable or energy efficiency objectives. Impacts would be less than significant.

Level of Significance

Less than significant impact.

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Appendix A: CalEEMod Output

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Appendix A: CalEEMod Output

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk and Riggin Industrial Park Project Off-site Improvements Construction

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	13.77	Acre	13.77	599,821.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Energy Use - Note 5

Water And Wastewater - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	0.35	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	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					
2024	0.1569	0.1088	0.1806	3.0000e-004	5.1800e-003	5.3200e-003	0.0105	1.3800e-003	4.9400e-003	6.3200e-003	0.0000	26.5513	26.5513	6.7500e-003	1.2000e-004	26.7564
Maximum	**0.1569**	**0.1088**	**0.1806**	**3.0000e-004**	**5.1800e-003**	**5.3200e-003**	**0.0105**	**1.3800e-003**	**4.9400e-003**	**6.3200e-003**	**0.0000**	**26.5513**	**26.5513**	**6.7500e-003**	**1.2000e-004**	**26.7564**

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					
2024	0.1569	0.1088	0.1806	3.0000e-004	5.1800e-003	5.3200e-003	0.0105	1.3800e-003	4.9400e-003	6.3200e-003	0.0000	26.5512	26.5512	6.7500e-003	1.2000e-004	26.7563
Maximum	**0.1569**	**0.1088**	**0.1806**	**3.0000e-004**	**5.1800e-003**	**5.3200e-003**	**0.0105**	**1.3800e-003**	**4.9400e-003**	**6.3200e-003**	**0.0000**	**26.5512**	**26.5512**	**6.7500e-003**	**1.2000e-004**	**26.7563**

Shirk and Riggin Industrial Park Project Off-site Improvements Construction - Tulare 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	N20	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	**3-14-2024**	**6-13-2024**	0.2660	0.2660
		Highest	0.2660	0.2660

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	0.0513	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-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	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
Total	**0.0513**	**0.0000**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.0000**	**2.6000e-004**

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	0.0513	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-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	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
Total	**0.0513**	**0.0000**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.0000**	**2.6000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Paving	Paving	3/14/2024	4/10/2024	5	20	
2	Architectural Coating	Architectural Coating	4/11/2024	5/8/2024	5	20	

Shirk and Riggin Industrial Park Project Off-site Improvements Construction - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 35,989 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0279**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1885**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.2000e-004	3.7400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9165	0.9165	3.0000e-005	3.0000e-005	0.9256
Total	**4.8000e-004**	**3.2000e-004**	**3.7400e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9165**	**0.9165**	**3.0000e-005**	**3.0000e-005**	**0.9256**

Shirk and Riggin Industrial Park Project Off-site Improvements Construction - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0279**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1884**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.2000e-004	3.7400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9165	0.9165	3.0000e-005	3.0000e-005	0.9256
Total	**4.8000e-004**	**3.2000e-004**	**3.7400e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9165**	**0.9165**	**3.0000e-005**	**3.0000e-005**	**0.9256**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	0.1251					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	**0.1269**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5569**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-003	1.0800e-003	0.0125	3.0000e-005	3.9800e-003	2.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.0550	3.0550	1.0000e-004	9.0000e-005	3.0854
Total	**1.6000e-003**	**1.0800e-003**	**0.0125**	**3.0000e-005**	**3.9800e-003**	**2.0000e-005**	**4.0000e-003**	**1.0600e-003**	**2.0000e-005**	**1.0800e-003**	**0.0000**	**3.0550**	**3.0550**	**1.0000e-004**	**9.0000e-005**	**3.0854**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	tons/yr										MT/yr					
Archit. Coating	0.1251					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	**0.1269**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5568**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-003	1.0800e-003	0.0125	3.0000e-005	3.9800e-003	2.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.0550	3.0550	1.0000e-004	9.0000e-005	3.0854
Total	**1.6000e-003**	**1.0800e-003**	**0.0125**	**3.0000e-005**	**3.9800e-003**	**2.0000e-005**	**4.0000e-003**	**1.0600e-003**	**2.0000e-005**	**1.0800e-003**	**0.0000**	**3.0550**	**3.0550**	**1.0000e-004**	**9.0000e-005**	**3.0854**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

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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	tons/yr										MT/yr					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	tons/yr										MT/yr					
Parking Lot	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
Total		**0.0000**	**0.0000**	**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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	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

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	0.0513	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Unmitigated	0.0513	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

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	0.0125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	**0.0513**	**0.0000**	**1.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.0000**	**2.6000e-004**

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	0.0125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	**0.0513**	**0.0000**	**1.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.0000**	**2.6000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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			
Parking Lot	0	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
Land Use	tons	MT/yr			
Parking Lot	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk and Riggin Industrial Park Project Off-site Improvements Construction Mitigated

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	13.77	Acre	13.77	599,821.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Energy Use - Note 5

Water And Wastewater - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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	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
tblEnergyUse	LightingElect	0.35	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00

2.0 Emissions Summary

Shirk and Riggin Industrial Park Project Off-site Improvements Construction Mitigated - Tulare 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					
2024	0.1569	0.1088	0.1806	3.0000e-004	5.1800e-003	5.3200e-003	0.0105	1.3800e-003	4.9400e-003	6.3200e-003	0.0000	26.5513	26.5513	6.7500e-003	1.2000e-004	26.7564
Maximum	**0.1569**	**0.1088**	**0.1806**	**3.0000e-004**	**5.1800e-003**	**5.3200e-003**	**0.0105**	**1.3800e-003**	**4.9400e-003**	**6.3200e-003**	**0.0000**	**26.5513**	**26.5513**	**6.7500e-003**	**1.2000e-004**	**26.7564**

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					
2024	0.1483	0.0148	0.2075	3.0000e-004	5.1800e-003	4.4000e-004	5.6200e-003	1.3800e-003	4.4000e-004	1.8100e-003	0.0000	26.5512	26.5512	6.7500e-003	1.2000e-004	26.7563
Maximum	**0.1483**	**0.0148**	**0.2075**	**3.0000e-004**	**5.1800e-003**	**4.4000e-004**	**5.6200e-003**	**1.3800e-003**	**4.4000e-004**	**1.8100e-003**	**0.0000**	**26.5512**	**26.5512**	**6.7500e-003**	**1.2000e-004**	**26.7563**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.47**	**86.36**	**-14.91**	**0.00**	**0.00**	**91.73**	**46.48**	**0.00**	**91.09**	**71.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Shirk and Riggin Industrial Park Project Off-site Improvements Construction Mitigated - Tulare 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	3-14-2024	6-13-2024	0.2660	0.1634
		Highest	0.2660	0.1634

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	0.0513	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-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	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
Total	**0.0513**	**0.0000**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.0000**	**2.6000e-004**

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	0.0513	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-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	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
Total	**0.0513**	**0.0000**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.0000**	**2.6000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Paving	Paving	3/14/2024	4/10/2024	5	20	
2	Architectural Coating	Architectural Coating	4/11/2024	5/8/2024	5	20	

Shirk and Riggin Industrial Park Project Off-site Improvements Construction Mitigated - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 35,989 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	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

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Shirk and Riggin Industrial Park Project Off-site Improvements Construction Mitigated - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0279**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1885**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.2000e-004	3.7400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9165	0.9165	3.0000e-005	3.0000e-005	0.9256
Total	**4.8000e-004**	**3.2000e-004**	**3.7400e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9165**	**0.9165**	**3.0000e-005**	**3.0000e-005**	**0.9256**

Shirk and Riggin Industrial Park Project Off-site Improvements Construction Mitigated - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0208**	**0.0122**	**0.1730**	**2.3000e-004**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1884**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.2000e-004	3.7400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9165	0.9165	3.0000e-005	3.0000e-005	0.9256
Total	**4.8000e-004**	**3.2000e-004**	**3.7400e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9165**	**0.9165**	**3.0000e-005**	**3.0000e-005**	**0.9256**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	0.1251					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	**0.1269**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5569**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-003	1.0800e-003	0.0125	3.0000e-005	3.9800e-003	2.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.0550	3.0550	1.0000e-004	9.0000e-005	3.0854
Total	**1.6000e-003**	**1.0800e-003**	**0.0125**	**3.0000e-005**	**3.9800e-003**	**2.0000e-005**	**4.0000e-003**	**1.0600e-003**	**2.0000e-005**	**1.0800e-003**	**0.0000**	**3.0550**	**3.0550**	**1.0000e-004**	**9.0000e-005**	**3.0854**

Shirk and Riggin Industrial Park Project Off-site Improvements Construction Mitigated - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	tons/yr										MT/yr					
Archit. Coating	0.1251					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	**0.1254**	**1.2900e-003**	**0.0183**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5568**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-003	1.0800e-003	0.0125	3.0000e-005	3.9800e-003	2.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.0550	3.0550	1.0000e-004	9.0000e-005	3.0854
Total	**1.6000e-003**	**1.0800e-003**	**0.0125**	**3.0000e-005**	**3.9800e-003**	**2.0000e-005**	**4.0000e-003**	**1.0600e-003**	**2.0000e-005**	**1.0800e-003**	**0.0000**	**3.0550**	**3.0550**	**1.0000e-004**	**9.0000e-005**	**3.0854**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

Shirk and Riggin Industrial Park Project Off-site Improvements Construction Mitigated - Tulare 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

Shirk and Riggin Industrial Park Project Off-site Improvements Construction Mitigated - Tulare 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 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					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	tons/yr										MT/yr					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	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

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	0.0513	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Unmitigated	0.0513	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

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	0.0125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	**0.0513**	**0.0000**	**1.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.0000**	**2.6000e-004**

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	0.0125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	**0.0513**	**0.0000**	**1.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.0000**	**2.6000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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			
Parking Lot	0	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
Land Use	tons	MT/yr			
Parking Lot	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project - Construction PHASE 1 - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Construction PHASE 1

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,864.70	1000sqft	42.81	1,864,700.00	0
Parking Lot	75.19	Acre	75.19	3,275,276.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT -

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	932350	0
tblAreaCoating	Area_Nonresidential_Interior	2797050	0
tblAreaCoating	Area_Parking	196517	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	3,100.00	262.00
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	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	8.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	1,752.82	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	431,211,875.00	0.00

2.0 Emissions Summary

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					
2024	6.7978	22.2875	29.4685	0.0712	2.6804	0.8499	3.5303	0.7261	0.7990	1.5251	0.0000	6,397.9303	6,397.9303	0.8075	0.3025	6,508.2751
2025	1.8533	5.1268	7.0498	0.0175	0.6934	0.1784	0.8718	0.1878	0.1679	0.3557	0.0000	1,570.5302	1,570.5302	0.1892	0.0749	1,597.5640
Maximum	**6.7978**	**22.2875**	**29.4685**	**0.0712**	**2.6804**	**0.8499**	**3.5303**	**0.7261**	**0.7990**	**1.5251**	**0.0000**	**6,397.9303**	**6,397.9303**	**0.8075**	**0.3025**	**6,508.2751**

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					
2024	6.7978	22.2875	29.4685	0.0712	2.6804	0.8499	3.5303	0.7261	0.7990	1.5251	0.0000	6,397.9266	6,397.9266	0.8075	0.3025	6,508.2714
2025	1.8533	5.1268	7.0498	0.0175	0.6934	0.1784	0.8718	0.1878	0.1679	0.3557	0.0000	1,570.5293	1,570.5293	0.1892	0.0749	1,597.5631
Maximum	**6.7978**	**22.2875**	**29.4685**	**0.0712**	**2.6804**	**0.8499**	**3.5303**	**0.7261**	**0.7990**	**1.5251**	**0.0000**	**6,397.9266**	**6,397.9266**	**0.8075**	**0.3025**	**6,508.2714**

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	N20	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	**3-14-2024**	**6-13-2024**	8.4509	8.4509
2	**6-14-2024**	**9-13-2024**	9.4413	9.4413
3	**9-14-2024**	**12-13-2024**	9.3983	9.3983
4	**12-14-2024**	**3-13-2025**	8.6985	8.6985
5	**3-14-2025**	**6-13-2025**	0.0767	0.0767
		Highest	9.4413	9.4413

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	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
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
Total	**1.6400e-003**	**1.6000e-004**	**0.0178**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

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	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
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
Total	**1.6400e-003**	**1.6000e-004**	**0.0178**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	3/14/2024	3/14/2025	5	262	
2	Paving	Paving	3/14/2024	1/15/2025	5	220	
3	Architectural Coating	Architectural Coating	5/10/2024	3/13/2025	5	220	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 75.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,797,050; Non-Residential Outdoor: 932,350; Striped Parking Area: 196,517 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	12	6.90	231	0.29
Building Construction	Forklifts	32	8.90	89	0.20
Building Construction	Generator Sets	12	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	32	7.80	97	0.37
Building Construction	Welders	12	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	100	2,159.00	842.00	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	432.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	1.8235	16.6597	20.0442	0.0334		0.7601	0.7601		0.7150	0.7150	0.0000	2,873.4358	2,873.4358	0.6797	0.0000	2,890.4281
Total	**1.8235**	**16.6597**	**20.0442**	**0.0334**		**0.7601**	**0.7601**		**0.7150**	**0.7150**	**0.0000**	**2,873.4358**	**2,873.4358**	**0.6797**	**0.0000**	**2,890.4281**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0964	3.9633	1.1676	0.0176	0.5817	0.0255	0.6072	0.1681	0.0244	0.1925	0.0000	1,683.9771	1,683.9771	7.5800e-003	0.2530	1,759.5558
Worker	0.7229	0.4854	5.6315	0.0150	1.7971	8.7700e-003	1.8059	0.4778	8.0800e-003	0.4859	0.0000	1,378.4979	1,378.4979	0.0439	0.0424	1,392.2430
Total	**0.8193**	**4.4487**	**6.7990**	**0.0326**	**2.3788**	**0.0343**	**2.4131**	**0.6459**	**0.0325**	**0.6784**	**0.0000**	**3,062.4750**	**3,062.4750**	**0.0515**	**0.2954**	**3,151.7988**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	1.8235	16.6597	20.0441	0.0334		0.7601	0.7601		0.7150	0.7150	0.0000	2,873.4324	2,873.4324	0.6797	0.0000	2,890.4247
Total	**1.8235**	**16.6597**	**20.0441**	**0.0334**		**0.7601**	**0.7601**		**0.7150**	**0.7150**	**0.0000**	**2,873.4324**	**2,873.4324**	**0.6797**	**0.0000**	**2,890.4247**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0964	3.9633	1.1676	0.0176	0.5817	0.0255	0.6072	0.1681	0.0244	0.1925	0.0000	1,683.9771	1,683.9771	7.5800e-003	0.2530	1,759.5558
Worker	0.7229	0.4854	5.6315	0.0150	1.7971	8.7700e-003	1.8059	0.4778	8.0800e-003	0.4859	0.0000	1,378.4979	1,378.4979	0.0439	0.0424	1,392.2430
Total	**0.8193**	**4.4487**	**6.7990**	**0.0326**	**2.3788**	**0.0343**	**2.4131**	**0.6459**	**0.0325**	**0.6784**	**0.0000**	**3,062.4750**	**3,062.4750**	**0.0515**	**0.2954**	**3,151.7988**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.4297	3.9186	5.0572	8.4700e-003		0.1658	0.1658		0.1560	0.1560	0.0000	728.8919	728.8919	0.1714	0.0000	733.1767
Total	**0.4297**	**3.9186**	**5.0572**	**8.4700e-003**		**0.1658**	**0.1658**		**0.1560**	**0.1560**	**0.0000**	**728.8919**	**728.8919**	**0.1714**	**0.0000**	**733.1767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0239	1.0008	0.2908	4.3700e-003	0.1475	6.4600e-003	0.1540	0.0426	6.1800e-003	0.0488	0.0000	419.4917	419.4917	1.8600e-003	0.0629	438.2906
Worker	0.1690	0.1089	1.3147	3.6800e-003	0.4557	2.1000e-003	0.4578	0.1212	1.9400e-003	0.1231	0.0000	337.7119	337.7119	0.0100	9.9500e-003	340.9279
Total	**0.1929**	**1.1097**	**1.6054**	**8.0500e-003**	**0.6033**	**8.5600e-003**	**0.6118**	**0.1638**	**8.1200e-003**	**0.1719**	**0.0000**	**757.2036**	**757.2036**	**0.0119**	**0.0729**	**779.2185**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.4297	3.9186	5.0572	8.4700e-003		0.1658	0.1658		0.1560	0.1560	0.0000	728.8910	728.8910	0.1714	0.0000	733.1758
Total	**0.4297**	**3.9186**	**5.0572**	**8.4700e-003**		**0.1658**	**0.1658**		**0.1560**	**0.1560**	**0.0000**	**728.8910**	**728.8910**	**0.1714**	**0.0000**	**733.1758**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0239	1.0008	0.2908	4.3700e-003	0.1475	6.4600e-003	0.1540	0.0426	6.1800e-003	0.0488	0.0000	419.4917	419.4917	1.8600e-003	0.0629	438.2906
Worker	0.1690	0.1089	1.3147	3.6800e-003	0.4557	2.1000e-003	0.4578	0.1212	1.9400e-003	0.1231	0.0000	337.7119	337.7119	0.0100	9.9500e-003	340.9279
Total	**0.1929**	**1.1097**	**1.6054**	**8.0500e-003**	**0.6033**	**8.5600e-003**	**0.6118**	**0.1638**	**8.1200e-003**	**0.1719**	**0.0000**	**757.2036**	**757.2036**	**0.0119**	**0.0729**	**779.2185**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	0.1033	0.9953	1.5284	2.3800e-003		0.0490	0.0490		0.0450	0.0450	0.0000	209.2773	209.2773	0.0677	0.0000	210.9694
Paving	0.0936					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1968**	**0.9953**	**1.5284**	**2.3800e-003**		**0.0490**	**0.0490**		**0.0450**	**0.0450**	**0.0000**	**209.2773**	**209.2773**	**0.0677**	**0.0000**	**210.9694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.3700e-003	0.0391	1.0000e-004	0.0125	6.0000e-005	0.0126	3.3200e-003	6.0000e-005	3.3800e-003	0.0000	9.5773	9.5773	3.1000e-004	2.9000e-004	9.6728
Total	**5.0200e-003**	**3.3700e-003**	**0.0391**	**1.0000e-004**	**0.0125**	**6.0000e-005**	**0.0126**	**3.3200e-003**	**6.0000e-005**	**3.3800e-003**	**0.0000**	**9.5773**	**9.5773**	**3.1000e-004**	**2.9000e-004**	**9.6728**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	tons/yr										MT/yr					
Off-Road	0.1033	0.9953	1.5284	2.3800e-003		0.0490	0.0490		0.0450	0.0450	0.0000	209.2770	209.2770	0.0677	0.0000	210.9691
Paving	0.0936					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1968**	**0.9953**	**1.5284**	**2.3800e-003**		**0.0490**	**0.0490**		**0.0450**	**0.0450**	**0.0000**	**209.2770**	**209.2770**	**0.0677**	**0.0000**	**210.9691**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.3700e-003	0.0391	1.0000e-004	0.0125	6.0000e-005	0.0126	3.3200e-003	6.0000e-005	3.3800e-003	0.0000	9.5773	9.5773	3.1000e-004	2.9000e-004	9.6728
Total	**5.0200e-003**	**3.3700e-003**	**0.0391**	**1.0000e-004**	**0.0125**	**6.0000e-005**	**0.0126**	**3.3200e-003**	**6.0000e-005**	**3.3800e-003**	**0.0000**	**9.5773**	**9.5773**	**3.1000e-004**	**2.9000e-004**	**9.6728**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	5.0300e-003	0.0472	0.0802	1.3000e-004		2.3000e-003	2.3000e-003		2.1200e-003	2.1200e-003	0.0000	11.0106	11.0106	3.5600e-003	0.0000	11.0996
Paving	4.9200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.9500e-003**	**0.0472**	**0.0802**	**1.3000e-004**		**2.3000e-003**	**2.3000e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**11.0106**	**11.0106**	**3.5600e-003**	**0.0000**	**11.0996**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.6000e-004	1.9000e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4870	0.4870	1.0000e-005	1.0000e-005	0.4916
Total	**2.4000e-004**	**1.6000e-004**	**1.9000e-003**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.4870**	**0.4870**	**1.0000e-005**	**1.0000e-005**	**0.4916**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	tons/yr										MT/yr					
Off-Road	5.0300e-003	0.0472	0.0802	1.3000e-004		2.3000e-003	2.3000e-003		2.1200e-003	2.1200e-003	0.0000	11.0106	11.0106	3.5600e-003	0.0000	11.0996
Paving	4.9200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.9500e-003**	**0.0472**	**0.0802**	**1.3000e-004**		**2.3000e-003**	**2.3000e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**11.0106**	**11.0106**	**3.5600e-003**	**0.0000**	**11.0996**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.6000e-004	1.9000e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4870	0.4870	1.0000e-005	1.0000e-005	0.4916
Total	**2.4000e-004**	**1.6000e-004**	**1.9000e-003**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.4870**	**0.4870**	**1.0000e-005**	**1.0000e-005**	**0.4916**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	3.8217					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.1024	0.1521	2.5000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	21.4473	21.4473	1.2100e-003	0.0000	21.4775
Total	**3.8369**	**0.1024**	**0.1521**	**2.5000e-004**		**5.1200e-003**	**5.1200e-003**		**5.1200e-003**	**5.1200e-003**	**0.0000**	**21.4473**	**21.4473**	**1.2100e-003**	**0.0000**	**21.4775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1163	0.0781	0.9058	2.4200e-003	0.2891	1.4100e-003	0.2905	0.0769	1.3000e-003	0.0782	0.0000	221.7176	221.7176	7.0600e-003	6.8300e-003	223.9284
Total	**0.1163**	**0.0781**	**0.9058**	**2.4200e-003**	**0.2891**	**1.4100e-003**	**0.2905**	**0.0769**	**1.3000e-003**	**0.0782**	**0.0000**	**221.7176**	**221.7176**	**7.0600e-003**	**6.8300e-003**	**223.9284**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	tons/yr										MT/yr					
Archit. Coating	3.8217					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.1024	0.1521	2.5000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	21.4473	21.4473	1.2100e-003	0.0000	21.4775
Total	**3.8369**	**0.1024**	**0.1521**	**2.5000e-004**		**5.1200e-003**	**5.1200e-003**		**5.1200e-003**	**5.1200e-003**	**0.0000**	**21.4473**	**21.4473**	**1.2100e-003**	**0.0000**	**21.4775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1163	0.0781	0.9058	2.4200e-003	0.2891	1.4100e-003	0.2905	0.0769	1.3000e-003	0.0782	0.0000	221.7176	221.7176	7.0600e-003	6.8300e-003	223.9284
Total	**0.1163**	**0.0781**	**0.9058**	**2.4200e-003**	**0.2891**	**1.4100e-003**	**0.2905**	**0.0769**	**1.3000e-003**	**0.0782**	**0.0000**	**221.7176**	**221.7176**	**7.0600e-003**	**6.8300e-003**	**223.9284**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	1.1829					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4400e-003	0.0298	0.0470	8.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	6.6385	6.6385	3.6000e-004	0.0000	6.6475
Total	**1.1873**	**0.0298**	**0.0470**	**8.0000e-005**		**1.3400e-003**	**1.3400e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**6.6385**	**6.6385**	**3.6000e-004**	**0.0000**	**6.6475**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0214	0.2581	7.2000e-004	0.0895	4.1000e-004	0.0899	0.0238	3.8000e-004	0.0242	0.0000	66.2987	66.2987	1.9600e-003	1.9500e-003	66.9301
Total	**0.0332**	**0.0214**	**0.2581**	**7.2000e-004**	**0.0895**	**4.1000e-004**	**0.0899**	**0.0238**	**3.8000e-004**	**0.0242**	**0.0000**	**66.2987**	**66.2987**	**1.9600e-003**	**1.9500e-003**	**66.9301**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	tons/yr										MT/yr					
Archit. Coating	1.1829					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4400e-003	0.0298	0.0470	8.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	6.6385	6.6385	3.6000e-004	0.0000	6.6475
Total	**1.1873**	**0.0298**	**0.0470**	**8.0000e-005**		**1.3400e-003**	**1.3400e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**6.6385**	**6.6385**	**3.6000e-004**	**0.0000**	**6.6475**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0214	0.2581	7.2000e-004	0.0895	4.1000e-004	0.0899	0.0238	3.8000e-004	0.0242	0.0000	66.2987	66.2987	1.9600e-003	1.9500e-003	66.9301
Total	**0.0332**	**0.0214**	**0.2581**	**7.2000e-004**	**0.0895**	**4.1000e-004**	**0.0899**	**0.0238**	**3.8000e-004**	**0.0242**	**0.0000**	**66.2987**	**66.2987**	**1.9600e-003**	**1.9500e-003**	**66.9301**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

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	tons/yr										MT/yr					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	tons/yr										MT/yr					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

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	tons/yr										MT/yr					
Mitigated	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Unmitigated	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Total	**1.6400e-003**	**1.6000e-004**	**0.0178**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

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
Landscaping	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Total	**1.6400e-003**	**1.6000e-004**	**0.0178**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

7.0 Water Detail

7.1 Mitigation Measures Water

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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	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
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

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

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk & Riggin Industrial Park Project - Construction PHASE 1_Mitigated

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,864.70	1000sqft	42.81	1,864,700.00	0
Parking Lot	75.19	Acre	75.19	3,275,276.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT -

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	932350	0
tblAreaCoating	Area_Nonresidential_Interior	2797050	0
tblAreaCoating	Area_Parking	196517	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
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

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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
tblConstructionPhase	NumDays	3,100.00	262.00
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	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	8.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	1,752.82	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	431,211,875.00	0.00

2.0 Emissions Summary

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					
2024	4.1578	22.2875	29.4685	0.0712	2.6804	0.8499	3.5303	0.7261	0.7990	1.5251	0.0000	6,397.9303	6,397.9303	0.8075	0.3025	6,508.2751
2025	1.0361	5.1268	7.0498	0.0175	0.6934	0.1784	0.8718	0.1878	0.1679	0.3557	0.0000	1,570.5302	1,570.5302	0.1892	0.0749	1,597.5640
Maximum	**4.1578**	**22.2875**	**29.4685**	**0.0712**	**2.6804**	**0.8499**	**3.5303**	**0.7261**	**0.7990**	**1.5251**	**0.0000**	**6,397.9303**	**6,397.9303**	**0.8075**	**0.3025**	**6,508.2751**

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					
2024	2.8917	7.9032	31.5572	0.0712	2.6804	0.1457	2.8261	0.7261	0.1438	0.8699	0.0000	6,397.9266	6,397.9266	0.8075	0.3025	6,508.2714
2025	0.7576	1.9496	7.5458	0.0175	0.6934	0.0340	0.7274	0.1878	0.0336	0.2213	0.0000	1,570.5293	1,570.5293	0.1892	0.0749	1,597.5631
Maximum	**2.8917**	**7.9032**	**31.5572**	**0.0712**	**2.6804**	**0.1457**	**2.8261**	**0.7261**	**0.1438**	**0.8699**	**0.0000**	**6,397.9266**	**6,397.9266**	**0.8075**	**0.3025**	**6,508.2714**

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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	N20	CO2e
Percent Reduction	**29.74**	**64.06**	**-7.08**	**0.00**	**0.00**	**82.52**	**19.28**	**0.00**	**81.66**	**41.98**	**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	**3-14-2024**	**6-13-2024**	8.0581	3.1545
2	**6-14-2024**	**9-13-2024**	8.4086	3.4798
3	**9-14-2024**	**12-13-2024**	8.3769	3.5017
4	**12-14-2024**	**3-13-2025**	7.6883	3.3699
5	**3-14-2025**	**6-13-2025**	0.0767	0.0311
		Highest	8.4086	3.5017

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	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
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
Total	**1.6400e-003**	**1.6000e-004**	**0.0178**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

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	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
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
Total	**1.6400e-003**	**1.6000e-004**	**0.0178**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	3/14/2024	3/14/2025	5	262	
2	Paving	Paving	3/14/2024	1/15/2025	5	220	
3	Architectural Coating	Architectural Coating	5/10/2024	3/13/2025	5	220	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 75.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,797,050; Non-Residential Outdoor: 932,350; Striped Parking Area: 196,517 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	12	6.90	231	0.29
Building Construction	Forklifts	32	8.90	89	0.20
Building Construction	Generator Sets	12	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	32	7.80	97	0.37
Building Construction	Welders	12	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	100	2,159.00	842.00	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	432.00	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

Water Exposed Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Reduce Vehicle Speed on Unpaved Roads

3.2 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	1.8235	16.6597	20.0442	0.0334		0.7601	0.7601		0.7150	0.7150	0.0000	2,873.4358	2,873.4358	0.6797	0.0000	2,890.4281
Total	**1.8235**	**16.6597**	**20.0442**	**0.0334**		**0.7601**	**0.7601**		**0.7150**	**0.7150**	**0.0000**	**2,873.4358**	**2,873.4358**	**0.6797**	**0.0000**	**2,890.4281**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0964	3.9633	1.1676	0.0176	0.5817	0.0255	0.6072	0.1681	0.0244	0.1925	0.0000	1,683.9771	1,683.9771	7.5800e-003	0.2530	1,759.5558
Worker	0.7229	0.4854	5.6315	0.0150	1.7971	8.7700e-003	1.8059	0.4778	8.0800e-003	0.4859	0.0000	1,378.4979	1,378.4979	0.0439	0.0424	1,392.2430
Total	**0.8193**	**4.4487**	**6.7990**	**0.0326**	**2.3788**	**0.0343**	**2.4131**	**0.6459**	**0.0325**	**0.6784**	**0.0000**	**3,062.4750**	**3,062.4750**	**0.0515**	**0.2954**	**3,151.7988**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.6441	3.2353	21.8520	0.0334		0.1057	0.1057		0.1057	0.1057	0.0000	2,873.4324	2,873.4324	0.6797	0.0000	2,890.4247
Total	**0.6441**	**3.2353**	**21.8520**	**0.0334**		**0.1057**	**0.1057**		**0.1057**	**0.1057**	**0.0000**	**2,873.4324**	**2,873.4324**	**0.6797**	**0.0000**	**2,890.4247**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0964	3.9633	1.1676	0.0176	0.5817	0.0255	0.6072	0.1681	0.0244	0.1925	0.0000	1,683.9771	1,683.9771	7.5800e-003	0.2530	1,759.5558
Worker	0.7229	0.4854	5.6315	0.0150	1.7971	8.7700e-003	1.8059	0.4778	8.0800e-003	0.4859	0.0000	1,378.4979	1,378.4979	0.0439	0.0424	1,392.2430
Total	**0.8193**	**4.4487**	**6.7990**	**0.0326**	**2.3788**	**0.0343**	**2.4131**	**0.6459**	**0.0325**	**0.6784**	**0.0000**	**3,062.4750**	**3,062.4750**	**0.0515**	**0.2954**	**3,151.7988**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.4297	3.9186	5.0572	8.4700e-003		0.1658	0.1658		0.1560	0.1560	0.0000	728.8919	728.8919	0.1714	0.0000	733.1767
Total	**0.4297**	**3.9186**	**5.0572**	**8.4700e-003**		**0.1658**	**0.1658**		**0.1560**	**0.1560**	**0.0000**	**728.8919**	**728.8919**	**0.1714**	**0.0000**	**733.1767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0239	1.0008	0.2908	4.3700e-003	0.1475	6.4600e-003	0.1540	0.0426	6.1800e-003	0.0488	0.0000	419.4917	419.4917	1.8600e-003	0.0629	438.2906
Worker	0.1690	0.1089	1.3147	3.6800e-003	0.4557	2.1000e-003	0.4578	0.1212	1.9400e-003	0.1231	0.0000	337.7119	337.7119	0.0100	9.9500e-003	340.9279
Total	**0.1929**	**1.1097**	**1.6054**	**8.0500e-003**	**0.6033**	**8.5600e-003**	**0.6118**	**0.1638**	**8.1200e-003**	**0.1719**	**0.0000**	**757.2036**	**757.2036**	**0.0119**	**0.0729**	**779.2185**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.1583	0.8083	5.5376	8.4700e-003		0.0247	0.0247		0.0247	0.0247	0.0000	728.8910	728.8910	0.1714	0.0000	733.1758
Total	**0.1583**	**0.8083**	**5.5376**	**8.4700e-003**		**0.0247**	**0.0247**		**0.0247**	**0.0247**	**0.0000**	**728.8910**	**728.8910**	**0.1714**	**0.0000**	**733.1758**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0239	1.0008	0.2908	4.3700e-003	0.1475	6.4600e-003	0.1540	0.0426	6.1800e-003	0.0488	0.0000	419.4917	419.4917	1.8600e-003	0.0629	438.2906
Worker	0.1690	0.1089	1.3147	3.6800e-003	0.4557	2.1000e-003	0.4578	0.1212	1.9400e-003	0.1231	0.0000	337.7119	337.7119	0.0100	9.9500e-003	340.9279
Total	**0.1929**	**1.1097**	**1.6054**	**8.0500e-003**	**0.6033**	**8.5600e-003**	**0.6118**	**0.1638**	**8.1200e-003**	**0.1719**	**0.0000**	**757.2036**	**757.2036**	**0.0119**	**0.0729**	**779.2185**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	0.1033	0.9953	1.5284	2.3800e-003		0.0490	0.0490		0.0450	0.0450	0.0000	209.2773	209.2773	0.0677	0.0000	210.9694
Paving	0.0936					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1968**	**0.9953**	**1.5284**	**2.3800e-003**		**0.0490**	**0.0490**		**0.0450**	**0.0450**	**0.0000**	**209.2773**	**209.2773**	**0.0677**	**0.0000**	**210.9694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.3700e-003	0.0391	1.0000e-004	0.0125	6.0000e-005	0.0126	3.3200e-003	6.0000e-005	3.3800e-003	0.0000	9.5773	9.5773	3.1000e-004	2.9000e-004	9.6728
Total	**5.0200e-003**	**3.3700e-003**	**0.0391**	**1.0000e-004**	**0.0125**	**6.0000e-005**	**0.0126**	**3.3200e-003**	**6.0000e-005**	**3.3800e-003**	**0.0000**	**9.5773**	**9.5773**	**3.1000e-004**	**2.9000e-004**	**9.6728**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	tons/yr										MT/yr					
Off-Road	0.0293	0.1270	1.8074	2.3800e-003		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	209.2770	209.2770	0.0677	0.0000	210.9691
Paving	0.0936					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1229**	**0.1270**	**1.8074**	**2.3800e-003**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**209.2770**	**209.2770**	**0.0677**	**0.0000**	**210.9691**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.3700e-003	0.0391	1.0000e-004	0.0125	6.0000e-005	0.0126	3.3200e-003	6.0000e-005	3.3800e-003	0.0000	9.5773	9.5773	3.1000e-004	2.9000e-004	9.6728
Total	**5.0200e-003**	**3.3700e-003**	**0.0391**	**1.0000e-004**	**0.0125**	**6.0000e-005**	**0.0126**	**3.3200e-003**	**6.0000e-005**	**3.3800e-003**	**0.0000**	**9.5773**	**9.5773**	**3.1000e-004**	**2.9000e-004**	**9.6728**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	5.0300e-003	0.0472	0.0802	1.3000e-004		2.3000e-003	2.3000e-003		2.1200e-003	2.1200e-003	0.0000	11.0106	11.0106	3.5600e-003	0.0000	11.0996
Paving	4.9200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.9500e-003**	**0.0472**	**0.0802**	**1.3000e-004**		**2.3000e-003**	**2.3000e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**11.0106**	**11.0106**	**3.5600e-003**	**0.0000**	**11.0996**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.6000e-004	1.9000e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4870	0.4870	1.0000e-005	1.0000e-005	0.4916
Total	**2.4000e-004**	**1.6000e-004**	**1.9000e-003**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.4870**	**0.4870**	**1.0000e-005**	**1.0000e-005**	**0.4916**

Shirk & Riggin Industrial Park Project - Construction PHASE 1_Mitigated - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	tons/yr										MT/yr					
Off-Road	1.5400e-003	6.6800e-003	0.0951	1.3000e-004		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	11.0106	11.0106	3.5600e-003	0.0000	11.0996
Paving	4.9200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.4600e-003**	**6.6800e-003**	**0.0951**	**1.3000e-004**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**11.0106**	**11.0106**	**3.5600e-003**	**0.0000**	**11.0996**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.6000e-004	1.9000e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4870	0.4870	1.0000e-005	1.0000e-005	0.4916
Total	**2.4000e-004**	**1.6000e-004**	**1.9000e-003**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.4870**	**0.4870**	**1.0000e-005**	**1.0000e-005**	**0.4916**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	1.1817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.1024	0.1521	2.5000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	21.4473	21.4473	1.2100e-003	0.0000	21.4775
Total	**1.1969**	**0.1024**	**0.1521**	**2.5000e-004**		**5.1200e-003**	**5.1200e-003**		**5.1200e-003**	**5.1200e-003**	**0.0000**	**21.4473**	**21.4473**	**1.2100e-003**	**0.0000**	**21.4775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1163	0.0781	0.9058	2.4200e-003	0.2891	1.4100e-003	0.2905	0.0769	1.3000e-003	0.0782	0.0000	221.7176	221.7176	7.0600e-003	6.8300e-003	223.9284
Total	**0.1163**	**0.0781**	**0.9058**	**2.4200e-003**	**0.2891**	**1.4100e-003**	**0.2905**	**0.0769**	**1.3000e-003**	**0.0782**	**0.0000**	**221.7176**	**221.7176**	**7.0600e-003**	**6.8300e-003**	**223.9284**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	tons/yr										MT/yr					
Archit. Coating	1.1817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-003	0.0108	0.1539	2.5000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	21.4473	21.4473	1.2100e-003	0.0000	21.4775
Total	**1.1842**	**0.0108**	**0.1539**	**2.5000e-004**		**3.3000e-004**	**3.3000e-004**		**3.3000e-004**	**3.3000e-004**	**0.0000**	**21.4473**	**21.4473**	**1.2100e-003**	**0.0000**	**21.4775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1163	0.0781	0.9058	2.4200e-003	0.2891	1.4100e-003	0.2905	0.0769	1.3000e-003	0.0782	0.0000	221.7176	221.7176	7.0600e-003	6.8300e-003	223.9284
Total	**0.1163**	**0.0781**	**0.9058**	**2.4200e-003**	**0.2891**	**1.4100e-003**	**0.2905**	**0.0769**	**1.3000e-003**	**0.0782**	**0.0000**	**221.7176**	**221.7176**	**7.0600e-003**	**6.8300e-003**	**223.9284**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.3658					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4400e-003	0.0298	0.0470	8.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	6.6385	6.6385	3.6000e-004	0.0000	6.6475
Total	**0.3702**	**0.0298**	**0.0470**	**8.0000e-005**		**1.3400e-003**	**1.3400e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**6.6385**	**6.6385**	**3.6000e-004**	**0.0000**	**6.6475**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0214	0.2581	7.2000e-004	0.0895	4.1000e-004	0.0899	0.0238	3.8000e-004	0.0242	0.0000	66.2987	66.2987	1.9600e-003	1.9500e-003	66.9301
Total	**0.0332**	**0.0214**	**0.2581**	**7.2000e-004**	**0.0895**	**4.1000e-004**	**0.0899**	**0.0238**	**3.8000e-004**	**0.0242**	**0.0000**	**66.2987**	**66.2987**	**1.9600e-003**	**1.9500e-003**	**66.9301**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	tons/yr										MT/yr					
Archit. Coating	0.3658					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7000e-004	3.3500e-003	0.0476	8.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	6.6385	6.6385	3.6000e-004	0.0000	6.6475
Total	**0.3665**	**3.3500e-003**	**0.0476**	**8.0000e-005**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**6.6385**	**6.6385**	**3.6000e-004**	**0.0000**	**6.6475**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0214	0.2581	7.2000e-004	0.0895	4.1000e-004	0.0899	0.0238	3.8000e-004	0.0242	0.0000	66.2987	66.2987	1.9600e-003	1.9500e-003	66.9301
Total	**0.0332**	**0.0214**	**0.2581**	**7.2000e-004**	**0.0895**	**4.1000e-004**	**0.0899**	**0.0238**	**3.8000e-004**	**0.0242**	**0.0000**	**66.2987**	**66.2987**	**1.9600e-003**	**1.9500e-003**	**66.9301**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

Shirk & Riggin Industrial Park Project - Construction PHASE 1_Mitigated - Tulare 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 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					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	tons/yr										MT/yr					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

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	tons/yr										MT/yr					
Mitigated	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Unmitigated	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Total	**1.6400e-003**	**1.6000e-004**	**0.0178**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

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
Landscaping	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Total	**1.6400e-003**	**1.6000e-004**	**0.0178**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

7.0 Water Detail

7.1 Mitigation Measures Water

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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	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
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

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

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT -

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,110.00	261.00
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00
tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	0.00

2.0 Emissions Summary

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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					
2025	0.4864	3.3335	4.5883	0.0121	0.5072	0.1111	0.6184	0.1377	0.1043	0.2420	0.0000	1,097.5601	1,097.5601	0.1254	0.0609	1,118.8323
2026	3.2815	6.9584	9.3608	0.0261	1.2303	0.2217	1.4520	0.3337	0.2088	0.5425	0.0000	2,372.6334	2,372.6334	0.2328	0.1377	2,419.4911
Maximum	**3.2815**	**6.9584**	**9.3608**	**0.0261**	**1.2303**	**0.2217**	**1.4520**	**0.3337**	**0.2088**	**0.5425**	**0.0000**	**2,372.6334**	**2,372.6334**	**0.2328**	**0.1377**	**2,419.4911**

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					
2025	0.4864	3.3335	4.5883	0.0121	0.5072	0.1111	0.6184	0.1377	0.1043	0.2420	0.0000	1,097.5595	1,097.5595	0.1254	0.0609	1,118.8317
2026	3.2815	6.9584	9.3608	0.0261	1.2303	0.2217	1.4520	0.3337	0.2088	0.5425	0.0000	2,372.6323	2,372.6323	0.2328	0.1377	2,419.4901
Maximum	**3.2815**	**6.9584**	**9.3608**	**0.0261**	**1.2303**	**0.2217**	**1.4520**	**0.3337**	**0.2088**	**0.5425**	**0.0000**	**2,372.6323**	**2,372.6323**	**0.2328**	**0.1377**	**2,419.4901**

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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	N20	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	**9-12-2025**	**12-11-2025**	3.1789	3.1789
2	**12-12-2025**	**3-11-2026**	2.8312	2.8312
3	**3-12-2026**	**6-11-2026**	3.0576	3.0576
4	**6-12-2026**	**9-11-2026**	4.9544	4.9544
5	**9-12-2026**	**9-30-2026**	0.0303	0.0303
		Highest	4.9544	4.9544

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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
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
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
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
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	9/12/2025	9/12/2026	5	261	
2	Paving	Paving	9/12/2025	12/25/2025	5	75	
3	Architectural Coating	Architectural Coating	6/1/2026	9/11/2026	5	75	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20
Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	241.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	0.2286	2.0854	2.6907	4.5100e-003		0.0883	0.0883		0.0830	0.0830	0.0000	387.9787	387.9787	0.0912	0.0000	390.2579
Total	**0.2286**	**2.0854**	**2.6907**	**4.5100e-003**		**0.0883**	**0.0883**		**0.0830**	**0.0830**	**0.0000**	**387.9787**	**387.9787**	**0.0912**	**0.0000**	**390.2579**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0199	0.8345	0.2424	3.6500e-003	0.1230	5.3900e-003	0.1284	0.0356	5.1600e-003	0.0407	0.0000	349.7707	349.7707	1.5500e-003	0.0525	365.4452
Worker	0.1408	0.0908	1.0955	3.0700e-003	0.3798	1.7500e-003	0.3815	0.1010	1.6100e-003	0.1026	0.0000	281.4182	281.4182	8.3400e-003	8.2900e-003	284.0981
Total	**0.1607**	**0.9252**	**1.3380**	**6.7200e-003**	**0.5028**	**7.1400e-003**	**0.5099**	**0.1365**	**6.7700e-003**	**0.1433**	**0.0000**	**631.1889**	**631.1889**	**9.8900e-003**	**0.0608**	**649.5433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2286	2.0854	2.6907	4.5100e-003		0.0883	0.0883		0.0830	0.0830	0.0000	387.9783	387.9783	0.0912	0.0000	390.2575
Total	**0.2286**	**2.0854**	**2.6907**	**4.5100e-003**		**0.0883**	**0.0883**		**0.0830**	**0.0830**	**0.0000**	**387.9783**	**387.9783**	**0.0912**	**0.0000**	**390.2575**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0199	0.8345	0.2424	3.6500e-003	0.1230	5.3900e-003	0.1284	0.0356	5.1600e-003	0.0407	0.0000	349.7707	349.7707	1.5500e-003	0.0525	365.4452
Worker	0.1408	0.0908	1.0955	3.0700e-003	0.3798	1.7500e-003	0.3815	0.1010	1.6100e-003	0.1026	0.0000	281.4182	281.4182	8.3400e-003	8.2900e-003	284.0981
Total	**0.1607**	**0.9252**	**1.3380**	**6.7200e-003**	**0.5028**	**7.1400e-003**	**0.5099**	**0.1365**	**6.7700e-003**	**0.1433**	**0.0000**	**631.1889**	**631.1889**	**9.8900e-003**	**0.0608**	**649.5433**

3.2 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	0.5266	4.8043	6.1989	0.0104		0.2033	0.2033		0.1913	0.1913	0.0000	893.8244	893.8244	0.2100	0.0000	899.0752
Total	**0.5266**	**4.8043**	**6.1989**	**0.0104**		**0.2033**	**0.2033**		**0.1913**	**0.1913**	**0.0000**	**893.8244**	**893.8244**	**0.2100**	**0.0000**	**899.0752**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0449	1.9098	0.5495	8.2500e-003	0.2834	0.0124	0.2957	0.0819	0.0118	0.0937	0.0000	790.9462	790.9462	3.4800e-003	0.1185	826.3363
Worker	0.3005	0.1861	2.3512	6.8300e-003	0.8749	3.8100e-003	0.8787	0.2326	3.5000e-003	0.2361	0.0000	626.7208	626.7208	0.0173	0.0178	632.4530
Total	**0.3454**	**2.0959**	**2.9006**	**0.0151**	**1.1583**	**0.0162**	**1.1744**	**0.3145**	**0.0153**	**0.3298**	**0.0000**	**1,417.6670**	**1,417.6670**	**0.0208**	**0.1363**	**1,458.7893**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5266	4.8043	6.1989	0.0104		0.2033	0.2033		0.1913	0.1913	0.0000	893.8234	893.8234	0.2100	0.0000	899.0741
Total	**0.5266**	**4.8043**	**6.1989**	**0.0104**		**0.2033**	**0.2033**		**0.1913**	**0.1913**	**0.0000**	**893.8234**	**893.8234**	**0.2100**	**0.0000**	**899.0741**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0449	1.9098	0.5495	8.2500e-003	0.2834	0.0124	0.2957	0.0819	0.0118	0.0937	0.0000	790.9462	790.9462	3.4800e-003	0.1185	826.3363
Worker	0.3005	0.1861	2.3512	6.8300e-003	0.8749	3.8100e-003	0.8787	0.2326	3.5000e-003	0.2361	0.0000	626.7208	626.7208	0.0173	0.0178	632.4530
Total	**0.3454**	**2.0959**	**2.9006**	**0.0151**	**1.1583**	**0.0162**	**1.1744**	**0.3145**	**0.0153**	**0.3298**	**0.0000**	**1,417.6670**	**1,417.6670**	**0.0208**	**0.1363**	**1,458.7893**

3.3 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	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0722	75.0722	0.0243	0.0000	75.6792
Paving	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0954**	**0.3218**	**0.5467**	**8.5000e-004**		**0.0157**	**0.0157**		**0.0144**	**0.0144**	**0.0000**	**75.0722**	**75.0722**	**0.0243**	**0.0000**	**75.6792**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	1.6600e-003	1.0700e-003	0.0129	4.0000e-005	4.4800e-003	2.0000e-005	4.5000e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.3203	3.3203	1.0000e-004	1.0000e-004	3.3519
Total	**1.6600e-003**	**1.0700e-003**	**0.0129**	**4.0000e-005**	**4.4800e-003**	**2.0000e-005**	**4.5000e-003**	**1.1900e-003**	**2.0000e-005**	**1.2100e-003**	**0.0000**	**3.3203**	**3.3203**	**1.0000e-004**	**1.0000e-004**	**3.3519**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0721	75.0721	0.0243	0.0000	75.6791
Paving	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0954**	**0.3218**	**0.5467**	**8.5000e-004**		**0.0157**	**0.0157**		**0.0144**	**0.0144**	**0.0000**	**75.0721**	**75.0721**	**0.0243**	**0.0000**	**75.6791**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	1.6600e-003	1.0700e-003	0.0129	4.0000e-005	4.4800e-003	2.0000e-005	4.5000e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.3203	3.3203	1.0000e-004	1.0000e-004	3.3519
Total	**1.6600e-003**	**1.0700e-003**	**0.0129**	**4.0000e-005**	**4.4800e-003**	**2.0000e-005**	**4.5000e-003**	**1.1900e-003**	**2.0000e-005**	**1.2100e-003**	**0.0000**	**3.3203**	**3.3203**	**1.0000e-004**	**1.0000e-004**	**3.3519**

3.4 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	2.3783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**2.3847**	**0.0430**	**0.0678**	**1.1000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.0247	0.0153	0.1935	5.6000e-004	0.0720	3.1000e-004	0.0723	0.0191	2.9000e-004	0.0194	0.0000	51.5672	51.5672	1.4200e-003	1.4600e-003	52.0389
Total	**0.0247**	**0.0153**	**0.1935**	**5.6000e-004**	**0.0720**	**3.1000e-004**	**0.0723**	**0.0191**	**2.9000e-004**	**0.0194**	**0.0000**	**51.5672**	**51.5672**	**1.4200e-003**	**1.4600e-003**	**52.0389**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.3783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**2.3847**	**0.0430**	**0.0678**	**1.1000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

3.4 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	0.0247	0.0153	0.1935	5.6000e-004	0.0720	3.1000e-004	0.0723	0.0191	2.9000e-004	0.0194	0.0000	51.5672	51.5672	1.4200e-003	1.4600e-003	52.0389
Total	**0.0247**	**0.0153**	**0.1935**	**5.6000e-004**	**0.0720**	**3.1000e-004**	**0.0723**	**0.0191**	**2.9000e-004**	**0.0194**	**0.0000**	**51.5672**	**51.5672**	**1.4200e-003**	**1.4600e-003**	**52.0389**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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
Convenience Market with Gas Pumps	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Fast Food Restaurant with Drive Thru	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Industrial Park	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Parking Lot	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Unrefrigerated Warehouse-No Rail	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296

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

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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Unmitigated	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

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
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

7.0 Water Detail

7.1 Mitigation Measures Water

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			
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT -

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
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

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare 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
tblConstructionPhase	NumDays	1,110.00	261.00
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00
tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	0.00

2.0 Emissions Summary

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare 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					
2025	0.4864	3.3335	4.5883	0.0121	0.5072	0.1111	0.6184	0.1377	0.1043	0.2420	0.0000	1,097.5601	1,097.5601	0.1254	0.0609	1,118.8323
2026	1.7179	6.9584	9.3608	0.0261	1.2303	0.2217	1.4520	0.3337	0.2088	0.5425	0.0000	2,372.6334	2,372.6334	0.2328	0.1377	2,419.4911
Maximum	**1.7179**	**6.9584**	**9.3608**	**0.0261**	**1.2303**	**0.2217**	**1.4520**	**0.3337**	**0.2088**	**0.5425**	**0.0000**	**2,372.6334**	**2,372.6334**	**0.2328**	**0.1377**	**2,419.4911**

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					
2025	0.3180	1.4005	4.9462	0.0121	0.5072	0.0217	0.5289	0.1377	0.0213	0.1590	0.0000	1,097.5595	1,097.5595	0.1254	0.0609	1,118.8317
2026	1.3795	3.1036	9.9515	0.0261	1.2303	0.0469	1.2771	0.3337	0.0460	0.3796	0.0000	2,372.6323	2,372.6323	0.2328	0.1377	2,419.4901
Maximum	**1.3795**	**3.1036**	**9.9515**	**0.0261**	**1.2303**	**0.0469**	**1.2771**	**0.3337**	**0.0460**	**0.3796**	**0.0000**	**2,372.6323**	**2,372.6323**	**0.2328**	**0.1377**	**2,419.4901**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare 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	N20	CO2e
Percent Reduction	**22.99**	**56.24**	**-6.80**	**0.00**	**0.00**	**79.41**	**12.77**	**0.00**	**78.51**	**31.33**	**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	**9-12-2025**	**12-11-2025**	3.1789	1.4368
2	**12-12-2025**	**3-11-2026**	2.8312	1.3253
3	**3-12-2026**	**6-11-2026**	2.8938	1.3909
4	**6-12-2026**	**9-11-2026**	3.5844	2.0479
5	**9-12-2026**	**9-30-2026**	0.0303	0.0140
		Highest	3.5844	2.0479

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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
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
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
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
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	9/12/2025	9/12/2026	5	261	
2	Paving	Paving	9/12/2025	12/25/2025	5	75	
3	Architectural Coating	Architectural Coating	6/1/2026	9/11/2026	5	75	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20
Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	241.00	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

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	0.2286	2.0854	2.6907	4.5100e-003		0.0883	0.0883		0.0830	0.0830	0.0000	387.9787	387.9787	0.0912	0.0000	390.2579
Total	**0.2286**	**2.0854**	**2.6907**	**4.5100e-003**		**0.0883**	**0.0883**		**0.0830**	**0.0830**	**0.0000**	**387.9787**	**387.9787**	**0.0912**	**0.0000**	**390.2579**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0199	0.8345	0.2424	3.6500e-003	0.1230	5.3900e-003	0.1284	0.0356	5.1600e-003	0.0407	0.0000	349.7707	349.7707	1.5500e-003	0.0525	365.4452
Worker	0.1408	0.0908	1.0955	3.0700e-003	0.3798	1.7500e-003	0.3815	0.1010	1.6100e-003	0.1026	0.0000	281.4182	281.4182	8.3400e-003	8.2900e-003	284.0981
Total	**0.1607**	**0.9252**	**1.3380**	**6.7200e-003**	**0.5028**	**7.1400e-003**	**0.5099**	**0.1365**	**6.7700e-003**	**0.1433**	**0.0000**	**631.1889**	**631.1889**	**9.8900e-003**	**0.0608**	**649.5433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0840	0.4287	2.9467	4.5100e-003		0.0131	0.0131		0.0131	0.0131	0.0000	387.9783	387.9783	0.0912	0.0000	390.2575
Total	**0.0840**	**0.4287**	**2.9467**	**4.5100e-003**		**0.0131**	**0.0131**		**0.0131**	**0.0131**	**0.0000**	**387.9783**	**387.9783**	**0.0912**	**0.0000**	**390.2575**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0199	0.8345	0.2424	3.6500e-003	0.1230	5.3900e-003	0.1284	0.0356	5.1600e-003	0.0407	0.0000	349.7707	349.7707	1.5500e-003	0.0525	365.4452
Worker	0.1408	0.0908	1.0955	3.0700e-003	0.3798	1.7500e-003	0.3815	0.1010	1.6100e-003	0.1026	0.0000	281.4182	281.4182	8.3400e-003	8.2900e-003	284.0981
Total	**0.1607**	**0.9252**	**1.3380**	**6.7200e-003**	**0.5028**	**7.1400e-003**	**0.5099**	**0.1365**	**6.7700e-003**	**0.1433**	**0.0000**	**631.1889**	**631.1889**	**9.8900e-003**	**0.0608**	**649.5433**

3.2 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	0.5266	4.8043	6.1989	0.0104		0.2033	0.2033		0.1913	0.1913	0.0000	893.8244	893.8244	0.2100	0.0000	899.0752
Total	**0.5266**	**4.8043**	**6.1989**	**0.0104**		**0.2033**	**0.2033**		**0.1913**	**0.1913**	**0.0000**	**893.8244**	**893.8244**	**0.2100**	**0.0000**	**899.0752**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0449	1.9098	0.5495	8.2500e-003	0.2834	0.0124	0.2957	0.0819	0.0118	0.0937	0.0000	790.9462	790.9462	3.4800e-003	0.1185	826.3363
Worker	0.3005	0.1861	2.3512	6.8300e-003	0.8749	3.8100e-003	0.8787	0.2326	3.5000e-003	0.2361	0.0000	626.7208	626.7208	0.0173	0.0178	632.4530
Total	**0.3454**	**2.0959**	**2.9006**	**0.0151**	**1.1583**	**0.0162**	**1.1744**	**0.3145**	**0.0153**	**0.3298**	**0.0000**	**1,417.6670**	**1,417.6670**	**0.0208**	**0.1363**	**1,458.7893**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1935	0.9876	6.7887	0.0104		0.0302	0.0302		0.0302	0.0302	0.0000	893.8234	893.8234	0.2100	0.0000	899.0741
Total	**0.1935**	**0.9876**	**6.7887**	**0.0104**		**0.0302**	**0.0302**		**0.0302**	**0.0302**	**0.0000**	**893.8234**	**893.8234**	**0.2100**	**0.0000**	**899.0741**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0449	1.9098	0.5495	8.2500e-003	0.2834	0.0124	0.2957	0.0819	0.0118	0.0937	0.0000	790.9462	790.9462	3.4800e-003	0.1185	826.3363
Worker	0.3005	0.1861	2.3512	6.8300e-003	0.8749	3.8100e-003	0.8787	0.2326	3.5000e-003	0.2361	0.0000	626.7208	626.7208	0.0173	0.0178	632.4530
Total	**0.3454**	**2.0959**	**2.9006**	**0.0151**	**1.1583**	**0.0162**	**1.1744**	**0.3145**	**0.0153**	**0.3298**	**0.0000**	**1,417.6670**	**1,417.6670**	**0.0208**	**0.1363**	**1,458.7893**

3.3 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	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0722	75.0722	0.0243	0.0000	75.6792
Paving	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0954**	**0.3218**	**0.5467**	**8.5000e-004**		**0.0157**	**0.0157**		**0.0144**	**0.0144**	**0.0000**	**75.0722**	**75.0722**	**0.0243**	**0.0000**	**75.6792**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	1.6600e-003	1.0700e-003	0.0129	4.0000e-005	4.4800e-003	2.0000e-005	4.5000e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.3203	3.3203	1.0000e-004	1.0000e-004	3.3519
Total	**1.6600e-003**	**1.0700e-003**	**0.0129**	**4.0000e-005**	**4.4800e-003**	**2.0000e-005**	**4.5000e-003**	**1.1900e-003**	**2.0000e-005**	**1.2100e-003**	**0.0000**	**3.3203**	**3.3203**	**1.0000e-004**	**1.0000e-004**	**3.3519**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0105	0.0456	0.6486	8.5000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	75.0721	75.0721	0.0243	0.0000	75.6791
Paving	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0716**	**0.0456**	**0.6486**	**8.5000e-004**		**1.4000e-003**	**1.4000e-003**		**1.4000e-003**	**1.4000e-003**	**0.0000**	**75.0721**	**75.0721**	**0.0243**	**0.0000**	**75.6791**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	1.6600e-003	1.0700e-003	0.0129	4.0000e-005	4.4800e-003	2.0000e-005	4.5000e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.3203	3.3203	1.0000e-004	1.0000e-004	3.3519
Total	**1.6600e-003**	**1.0700e-003**	**0.0129**	**4.0000e-005**	**4.4800e-003**	**2.0000e-005**	**4.5000e-003**	**1.1900e-003**	**2.0000e-005**	**1.2100e-003**	**0.0000**	**3.3203**	**3.3203**	**1.0000e-004**	**1.0000e-004**	**3.3519**

3.4 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	0.8147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**0.8211**	**0.0430**	**0.0678**	**1.1000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.0247	0.0153	0.1935	5.6000e-004	0.0720	3.1000e-004	0.0723	0.0191	2.9000e-004	0.0194	0.0000	51.5672	51.5672	1.4200e-003	1.4600e-003	52.0389
Total	**0.0247**	**0.0153**	**0.1935**	**5.6000e-004**	**0.0720**	**3.1000e-004**	**0.0723**	**0.0191**	**2.9000e-004**	**0.0194**	**0.0000**	**51.5672**	**51.5672**	**1.4200e-003**	**1.4600e-003**	**52.0389**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8147					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	4.8300e-003	0.0687	1.1000e-004		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**0.8158**	**4.8300e-003**	**0.0687**	**1.1000e-004**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.0247	0.0153	0.1935	5.6000e-004	0.0720	3.1000e-004	0.0723	0.0191	2.9000e-004	0.0194	0.0000	51.5672	51.5672	1.4200e-003	1.4600e-003	52.0389
Total	**0.0247**	**0.0153**	**0.1935**	**5.6000e-004**	**0.0720**	**3.1000e-004**	**0.0723**	**0.0191**	**2.9000e-004**	**0.0194**	**0.0000**	**51.5672**	**51.5672**	**1.4200e-003**	**1.4600e-003**	**52.0389**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare 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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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
Convenience Market with Gas Pumps	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Fast Food Restaurant with Drive Thru	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Industrial Park	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Parking Lot	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Unrefrigerated Warehouse-No Rail	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296

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

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare 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 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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare 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

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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare 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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Unmitigated	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

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
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

7.0 Water Detail

7.1 Mitigation Measures Water

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare 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			
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Shirk & Riggin Industrial Park Project Phase 2_Mitigated - Tulare 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			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT -

Grading -

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,550.00	261.00
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	0.00

2.0 Emissions Summary

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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					
2027	2.8503	11.3299	15.1328	0.0403	1.7751	0.3780	2.1531	0.4815	0.3554	0.8369	0.0000	3,645.1042	3,645.1042	0.4065	0.1949	3,713.3538
2028	1.4208	2.5902	3.4719	9.4800e-003	0.4607	0.0851	0.5457	0.1248	0.0801	0.2049	0.0000	857.7039	857.7039	0.0883	0.0457	873.5410
Maximum	**2.8503**	**11.3299**	**15.1328**	**0.0403**	**1.7751**	**0.3780**	**2.1531**	**0.4815**	**0.3554**	**0.8369**	**0.0000**	**3,645.1042**	**3,645.1042**	**0.4065**	**0.1949**	**3,713.3538**

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	2.8503	11.3299	15.1328	0.0403	1.7751	0.3780	2.1531	0.4815	0.3554	0.8369	0.0000	3,645.1023	3,645.1023	0.4065	0.1949	3,713.3519
2028	1.4208	2.5902	3.4719	9.4800e-003	0.4607	0.0851	0.5457	0.1248	0.0801	0.2049	0.0000	857.7035	857.7035	0.0883	0.0457	873.5406
Maximum	**2.8503**	**11.3299**	**15.1328**	**0.0403**	**1.7751**	**0.3780**	**2.1531**	**0.4815**	**0.3554**	**0.8369**	**0.0000**	**3,645.1023**	**3,645.1023**	**0.4065**	**0.1949**	**3,713.3519**

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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	N20	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	**3-13-2027**	**6-12-2027**	4.0811	4.0811
2	**6-13-2027**	**9-12-2027**	3.9643	3.9643
3	**9-13-2027**	**12-12-2027**	4.9631	4.9631
4	**12-13-2027**	**3-12-2028**	5.2182	5.2182
		Highest	5.2182	5.2182

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
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
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
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
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	3/12/2027	3/12/2028	5	261	
2	Paving	Paving	3/12/2027	8/12/2027	5	110	
3	Architectural Coating	Architectural Coating	10/1/2027	3/10/2028	5	110	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	52	1,518.00	592.00	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	304.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.8551	7.7981	10.0636	0.0169		0.3299	0.3299		0.3103	0.3103	0.0000	1,450.5532	1,450.5532	0.3411	0.0000	1,459.0796
Total	**0.8551**	**7.7981**	**10.0636**	**0.0169**		**0.3299**	**0.3299**		**0.3103**	**0.3103**	**0.0000**	**1,450.5532**	**1,450.5532**	**0.3411**	**0.0000**	**1,459.0796**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0642	2.7615	0.7896	0.0118	0.4129	0.0179	0.4308	0.1194	0.0171	0.1364	0.0000	1,129.3076	1,129.3076	4.9200e-003	0.1689	1,179.7688
Worker	0.4072	0.2440	3.2010	9.6700e-003	1.2757	5.2100e-003	1.2809	0.3392	4.7900e-003	0.3439	0.0000	886.6059	886.6059	0.0229	0.0244	894.4354
Total	**0.4714**	**3.0055**	**3.9906**	**0.0214**	**1.6886**	**0.0231**	**1.7117**	**0.4585**	**0.0219**	**0.4804**	**0.0000**	**2,015.9136**	**2,015.9136**	**0.0278**	**0.1933**	**2,074.2043**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.8551	7.7981	10.0636	0.0169		0.3299	0.3299		0.3103	0.3103	0.0000	1,450.5515	1,450.5515	0.3411	0.0000	1,459.0779
Total	**0.8551**	**7.7981**	**10.0636**	**0.0169**		**0.3299**	**0.3299**		**0.3103**	**0.3103**	**0.0000**	**1,450.5515**	**1,450.5515**	**0.3411**	**0.0000**	**1,459.0779**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0642	2.7615	0.7896	0.0118	0.4129	0.0179	0.4308	0.1194	0.0171	0.1364	0.0000	1,129.3076	1,129.3076	4.9200e-003	0.1689	1,179.7688
Worker	0.4072	0.2440	3.2010	9.6700e-003	1.2757	5.2100e-003	1.2809	0.3392	4.7900e-003	0.3439	0.0000	886.6059	886.6059	0.0229	0.0244	894.4354
Total	**0.4714**	**3.0055**	**3.9906**	**0.0214**	**1.6886**	**0.0231**	**1.7117**	**0.4585**	**0.0219**	**0.4804**	**0.0000**	**2,015.9136**	**2,015.9136**	**0.0278**	**0.1933**	**2,074.2043**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.2026	1.8479	2.3848	4.0000e-003		0.0782	0.0782		0.0735	0.0735	0.0000	343.7330	343.7330	0.0808	0.0000	345.7535
Total	**0.2026**	**1.8479**	**2.3848**	**4.0000e-003**		**0.0782**	**0.0782**		**0.0735**	**0.0735**	**0.0000**	**343.7330**	**343.7330**	**0.0808**	**0.0000**	**345.7535**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0150	0.6507	0.1851	2.7400e-003	0.0979	4.2000e-003	0.1021	0.0283	4.0200e-003	0.0323	0.0000	262.3634	262.3634	1.1400e-003	0.0392	274.0702
Worker	0.0898	0.0524	0.7139	2.2300e-003	0.3023	1.1500e-003	0.3034	0.0804	1.0600e-003	0.0814	0.0000	204.3088	204.3088	4.9600e-003	5.4600e-003	206.0593
Total	**0.1048**	**0.7031**	**0.8990**	**4.9700e-003**	**0.4002**	**5.3500e-003**	**0.4055**	**0.1087**	**5.0800e-003**	**0.1137**	**0.0000**	**466.6722**	**466.6722**	**6.1000e-003**	**0.0447**	**480.1295**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.2026	1.8479	2.3847	4.0000e-003		0.0782	0.0782		0.0735	0.0735	0.0000	343.7326	343.7326	0.0808	0.0000	345.7531
Total	**0.2026**	**1.8479**	**2.3847**	**4.0000e-003**		**0.0782**	**0.0782**		**0.0735**	**0.0735**	**0.0000**	**343.7326**	**343.7326**	**0.0808**	**0.0000**	**345.7531**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0150	0.6507	0.1851	2.7400e-003	0.0979	4.2000e-003	0.1021	0.0283	4.0200e-003	0.0323	0.0000	262.3634	262.3634	1.1400e-003	0.0392	274.0702
Worker	0.0898	0.0524	0.7139	2.2300e-003	0.3023	1.1500e-003	0.3034	0.0804	1.0600e-003	0.0814	0.0000	204.3088	204.3088	4.9600e-003	5.4600e-003	206.0593
Total	**0.1048**	**0.7031**	**0.8990**	**4.9700e-003**	**0.4002**	**5.3500e-003**	**0.4055**	**0.1087**	**5.0800e-003**	**0.1137**	**0.0000**	**466.6722**	**466.6722**	**6.1000e-003**	**0.0447**	**480.1295**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	0.0503	0.4720	0.8018	1.2500e-003		0.0230	0.0230		0.0212	0.0212	0.0000	110.1059	110.1059	0.0356	0.0000	110.9962
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0503**	**0.4720**	**0.8018**	**1.2500e-003**		**0.0230**	**0.0230**		**0.0212**	**0.0212**	**0.0000**	**110.1059**	**110.1059**	**0.0356**	**0.0000**	**110.9962**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-003	1.2600e-003	0.0165	5.0000e-005	6.5700e-003	3.0000e-005	6.6000e-003	1.7500e-003	2.0000e-005	1.7700e-003	0.0000	4.5673	4.5673	1.2000e-004	1.3000e-004	4.6076
Total	**2.1000e-003**	**1.2600e-003**	**0.0165**	**5.0000e-005**	**6.5700e-003**	**3.0000e-005**	**6.6000e-003**	**1.7500e-003**	**2.0000e-005**	**1.7700e-003**	**0.0000**	**4.5673**	**4.5673**	**1.2000e-004**	**1.3000e-004**	**4.6076**

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3.3 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	tons/yr										MT/yr					
Off-Road	0.0503	0.4720	0.8018	1.2500e-003		0.0230	0.0230		0.0212	0.0212	0.0000	110.1058	110.1058	0.0356	0.0000	110.9960
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0503**	**0.4720**	**0.8018**	**1.2500e-003**		**0.0230**	**0.0230**		**0.0212**	**0.0212**	**0.0000**	**110.1058**	**110.1058**	**0.0356**	**0.0000**	**110.9960**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-003	1.2600e-003	0.0165	5.0000e-005	6.5700e-003	3.0000e-005	6.6000e-003	1.7500e-003	2.0000e-005	1.7700e-003	0.0000	4.5673	4.5673	1.2000e-004	1.3000e-004	4.6076
Total	**2.1000e-003**	**1.2600e-003**	**0.0165**	**5.0000e-005**	**6.5700e-003**	**3.0000e-005**	**6.6000e-003**	**1.7500e-003**	**2.0000e-005**	**1.7700e-003**	**0.0000**	**4.5673**	**4.5673**	**1.2000e-004**	**1.3000e-004**	**4.6076**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	1.4403					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6400e-003	0.0378	0.0597	1.0000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	8.4257	8.4257	4.6000e-004	0.0000	8.4372
Total	**1.4459**	**0.0378**	**0.0597**	**1.0000e-004**		**1.7000e-003**	**1.7000e-003**		**1.7000e-003**	**1.7000e-003**	**0.0000**	**8.4257**	**8.4257**	**4.6000e-004**	**0.0000**	**8.4372**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0255	0.0153	0.2005	6.1000e-004	0.0799	3.3000e-004	0.0802	0.0213	3.0000e-004	0.0216	0.0000	55.5385	55.5385	1.4400e-003	1.5300e-003	56.0289
Total	**0.0255**	**0.0153**	**0.2005**	**6.1000e-004**	**0.0799**	**3.3000e-004**	**0.0802**	**0.0213**	**3.0000e-004**	**0.0216**	**0.0000**	**55.5385**	**55.5385**	**1.4400e-003**	**1.5300e-003**	**56.0289**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	tons/yr										MT/yr					
Archit. Coating	1.4403					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6400e-003	0.0378	0.0597	1.0000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	8.4257	8.4257	4.6000e-004	0.0000	8.4372
Total	**1.4459**	**0.0378**	**0.0597**	**1.0000e-004**		**1.7000e-003**	**1.7000e-003**		**1.7000e-003**	**1.7000e-003**	**0.0000**	**8.4257**	**8.4257**	**4.6000e-004**	**0.0000**	**8.4372**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0255	0.0153	0.2005	6.1000e-004	0.0799	3.3000e-004	0.0802	0.0213	3.0000e-004	0.0216	0.0000	55.5385	55.5385	1.4400e-003	1.5300e-003	56.0289
Total	**0.0255**	**0.0153**	**0.2005**	**6.1000e-004**	**0.0799**	**3.3000e-004**	**0.0802**	**0.0213**	**3.0000e-004**	**0.0216**	**0.0000**	**55.5385**	**55.5385**	**1.4400e-003**	**1.5300e-003**	**56.0289**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	1.0911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2700e-003	0.0286	0.0452	7.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	6.3831	6.3831	3.5000e-004	0.0000	6.3918
Total	**1.0954**	**0.0286**	**0.0452**	**7.0000e-005**		**1.2900e-003**	**1.2900e-003**		**1.2900e-003**	**1.2900e-003**	**0.0000**	**6.3831**	**6.3831**	**3.5000e-004**	**0.0000**	**6.3918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0180	0.0105	0.1430	4.5000e-004	0.0605	2.3000e-004	0.0608	0.0161	2.1000e-004	0.0163	0.0000	40.9156	40.9156	9.9000e-004	1.0900e-003	41.2662
Total	**0.0180**	**0.0105**	**0.1430**	**4.5000e-004**	**0.0605**	**2.3000e-004**	**0.0608**	**0.0161**	**2.1000e-004**	**0.0163**	**0.0000**	**40.9156**	**40.9156**	**9.9000e-004**	**1.0900e-003**	**41.2662**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	tons/yr										MT/yr					
Archit. Coating	1.0911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2700e-003	0.0286	0.0452	7.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	6.3831	6.3831	3.5000e-004	0.0000	6.3918
Total	**1.0954**	**0.0286**	**0.0452**	**7.0000e-005**		**1.2900e-003**	**1.2900e-003**		**1.2900e-003**	**1.2900e-003**	**0.0000**	**6.3831**	**6.3831**	**3.5000e-004**	**0.0000**	**6.3918**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0180	0.0105	0.1430	4.5000e-004	0.0605	2.3000e-004	0.0608	0.0161	2.1000e-004	0.0163	0.0000	40.9156	40.9156	9.9000e-004	1.0900e-003	41.2662
Total	**0.0180**	**0.0105**	**0.1430**	**4.5000e-004**	**0.0605**	**2.3000e-004**	**0.0608**	**0.0161**	**2.1000e-004**	**0.0163**	**0.0000**	**40.9156**	**40.9156**	**9.9000e-004**	**1.0900e-003**	**41.2662**

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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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Industrial Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Other Non-Asphalt Surfaces	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Unrefrigerated Warehouse-No Rail	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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					
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

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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	tons/yr										MT/yr					
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
Industrial 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
Other Non-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	0.0000
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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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	tons/yr										MT/yr					
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
Industrial 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
Other Non-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	0.0000
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Unmitigated	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

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
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

7.0 Water Detail

7.1 Mitigation Measures Water

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
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

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

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT -

Grading -

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
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

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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
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	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

tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	0.00

2.0 Emissions Summary

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					
2027	1.3202	10.7524	13.9877	0.0381	1.6806	0.3513	2.0319	0.4563	0.3306	0.7870	0.0000	3,450.0380	3,450.0380	0.3671	0.1924	3,516.5384
2028	1.5986	13.2653	17.0754	0.0466	2.0807	0.4344	2.5151	0.5650	0.4088	0.9738	0.0000	4,214.1069	4,214.1069	0.4520	0.2322	4,294.5916
2029	1.5704	13.2696	16.9279	0.0462	2.0888	0.4355	2.5242	0.5672	0.4099	0.9770	0.0000	4,176.4198	4,176.4198	0.4514	0.2274	4,255.4687
2030	1.4938	9.7265	16.8048	0.0488	2.0888	0.1415	2.2303	0.5672	0.1402	0.7073	0.0000	4,367.2684	4,367.2684	0.1091	0.2224	4,436.2557
2031	1.4627	9.6950	16.6453	0.0483	2.0888	0.1411	2.2298	0.5672	0.1397	0.7069	0.0000	4,323.7966	4,323.7966	0.1073	0.2179	4,391.4051
2032	1.4419	9.7052	16.5774	0.0481	2.0968	0.1412	2.2379	0.5694	0.1399	0.7092	0.0000	4,301.6474	4,301.6474	0.1062	0.2148	4,368.3185
2033	1.0091	1.7484	3.4313	9.0000e-003	0.4199	0.0385	0.4583	0.1132	0.0383	0.1515	0.0000	801.4269	801.4269	0.0223	0.0303	811.0188
Maximum	**1.5986**	**13.2696**	**17.0754**	**0.0488**	**2.0968**	**0.4355**	**2.5242**	**0.5694**	**0.4099**	**0.9770**	**0.0000**	**4,367.2684**	**4,367.2684**	**0.4520**	**0.2322**	**4,436.2557**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

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	0.7827	4.5923	14.9394	0.0381	1.6806	0.0720	1.7526	0.4563	0.0708	0.5271	0.0000	3,450.0363	3,450.0363	0.3671	0.1924	3,516.5367
2028	0.9331	5.6386	18.2538	0.0466	2.0807	0.0885	2.1693	0.5650	0.0871	0.6521	0.0000	4,214.1048	4,214.1048	0.4520	0.2322	4,294.5895
2029	0.9023	5.6136	18.1108	0.0462	2.0888	0.0883	2.1771	0.5672	0.0869	0.6541	0.0000	4,176.4176	4,176.4176	0.4514	0.2274	4,255.4665
2030	0.8274	5.4623	17.8920	0.0488	2.0888	0.0689	2.1576	0.5672	0.0675	0.6347	0.0000	4,367.2660	4,367.2660	0.1091	0.2224	4,436.2533
2031	0.7963	5.4308	17.7324	0.0483	2.0888	0.0684	2.1572	0.5672	0.0671	0.6343	0.0000	4,323.7942	4,323.7942	0.1073	0.2179	4,391.4027
2032	0.7729	5.4247	17.6687	0.0481	2.0968	0.0683	2.1650	0.5694	0.0670	0.6363	0.0000	4,301.6450	4,301.6450	0.1062	0.2148	4,368.3161
2033	0.8535	0.8118	3.6585	9.0000e-003	0.4199	0.0117	0.4316	0.1132	0.0115	0.1247	0.0000	801.4264	801.4264	0.0223	0.0303	811.0183
Maximum	**0.9331**	**5.6386**	**18.2538**	**0.0488**	**2.0968**	**0.0885**	**2.1771**	**0.5694**	**0.0871**	**0.6541**	**0.0000**	**4,367.2660**	**4,367.2660**	**0.4520**	**0.2322**	**4,436.2533**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**40.71**	**51.62**	**-6.71**	**0.00**	**0.00**	**72.31**	**8.56**	**0.00**	**71.51**	**22.93**	**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	3-13-2027	6-12-2027	3.7669	1.6710
2	6-13-2027	9-12-2027	3.7560	1.6601
3	9-13-2027	12-12-2027	3.7570	1.6840
4	12-13-2027	3-12-2028	3.7502	1.6772

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	**3-13-2028**	**6-12-2028**	3.7450	1.6492
6	**6-13-2028**	**9-12-2028**	3.7341	1.6383
7	**9-13-2028**	**12-12-2028**	3.7354	1.6623
8	**12-13-2028**	**3-12-2029**	3.6882	1.6379
9	**3-13-2029**	**6-12-2029**	3.7238	1.6280
10	**6-13-2029**	**9-12-2029**	3.7129	1.6171
11	**9-13-2029**	**12-12-2029**	3.7144	1.6413
12	**12-13-2029**	**3-12-2030**	2.9799	1.5890
13	**3-13-2030**	**6-12-2030**	2.8116	1.5702
14	**6-13-2030**	**9-12-2030**	2.8007	1.5593
15	**9-13-2030**	**12-12-2030**	2.8122	1.5843
16	**12-13-2030**	**3-12-2031**	2.7789	1.5645
17	**3-13-2031**	**6-12-2031**	2.7951	1.5536
18	**6-13-2031**	**9-12-2031**	2.7841	1.5427
19	**9-13-2031**	**12-12-2031**	2.7960	1.5680
20	**12-13-2031**	**3-12-2032**	2.7955	1.5676
21	**3-13-2032**	**6-12-2032**	2.7810	1.5395
22	**6-13-2032**	**9-12-2032**	2.7699	1.5285
23	**9-13-2032**	**12-12-2032**	2.7822	1.5542
24	**12-13-2032**	**3-12-2033**	2.1476	1.1750
25	**3-13-2033**	**6-12-2033**	0.2808	0.0505
26	**6-13-2033**	**9-12-2033**	0.3949	0.2794
27	**9-13-2033**	**9-30-2033**	0.0944	0.0891
		Highest	3.7669	1.6840

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated - Tulare 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

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
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
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
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
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	3/13/2027	2/18/2033	5	1550	
2	Paving	Paving	2/19/2033	7/22/2033	5	110	
3	Architectural Coating	Architectural Coating	7/23/2033	12/23/2033	5	110	

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	52	1,518.00	592.00	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	304.00	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

Water Exposed Area

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Reduce Vehicle Speed on Unpaved Roads

3.2 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	0.8510	7.7612	10.0159	0.0168		0.3283	0.3283		0.3089	0.3089	0.0000	1,443.6786	1,443.6786	0.3394	0.0000	1,452.1645
Total	**0.8510**	**7.7612**	**10.0159**	**0.0168**		**0.3283**	**0.3283**		**0.3089**	**0.3089**	**0.0000**	**1,443.6786**	**1,443.6786**	**0.3394**	**0.0000**	**1,452.1645**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0639	2.7484	0.7859	0.0117	0.4110	0.0178	0.4288	0.1188	0.0170	0.1358	0.0000	1,123.9555	1,123.9555	4.9000e-003	0.1681	1,174.1775
Worker	0.4053	0.2428	3.1858	9.6200e-003	1.2696	5.1800e-003	1.2748	0.3375	4.7700e-003	0.3423	0.0000	882.4040	882.4040	0.0228	0.0242	890.1964
Total	**0.4692**	**2.9913**	**3.9717**	**0.0213**	**1.6806**	**0.0230**	**1.7035**	**0.4563**	**0.0218**	**0.4781**	**0.0000**	**2,006.3595**	**2,006.3595**	**0.0277**	**0.1924**	**2,064.3739**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.3135	1.6011	10.9677	0.0168		0.0490	0.0490		0.0490	0.0490	0.0000	1,443.6768	1,443.6768	0.3394	0.0000	1,452.1628
Total	**0.3135**	**1.6011**	**10.9677**	**0.0168**		**0.0490**	**0.0490**		**0.0490**	**0.0490**	**0.0000**	**1,443.6768**	**1,443.6768**	**0.3394**	**0.0000**	**1,452.1628**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0639	2.7484	0.7859	0.0117	0.4110	0.0178	0.4288	0.1188	0.0170	0.1358	0.0000	1,123.9555	1,123.9555	4.9000e-003	0.1681	1,174.1775
Worker	0.4053	0.2428	3.1858	9.6200e-003	1.2696	5.1800e-003	1.2748	0.3375	4.7700e-003	0.3423	0.0000	882.4040	882.4040	0.0228	0.0242	890.1964
Total	**0.4692**	**2.9913**	**3.9717**	**0.0213**	**1.6806**	**0.0230**	**1.7035**	**0.4563**	**0.0218**	**0.4781**	**0.0000**	**2,006.3595**	**2,006.3595**	**0.0277**	**0.1924**	**2,064.3739**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	1.0537	9.6091	12.4007	0.0208		0.4065	0.4065		0.3824	0.3824	0.0000	1,787.4115	1,787.4115	0.4203	0.0000	1,797.9180
Total	**1.0537**	**9.6091**	**12.4007**	**0.0208**		**0.4065**	**0.4065**		**0.3824**	**0.3824**	**0.0000**	**1,787.4115**	**1,787.4115**	**0.4203**	**0.0000**	**1,797.9180**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0778	3.3838	0.9622	0.0142	0.5089	0.0219	0.5307	0.1471	0.0209	0.1680	0.0000	1,364.2895	1,364.2895	5.9300e-003	0.2038	1,425.1651
Worker	0.4671	0.2725	3.7125	0.0116	1.5719	6.0000e-003	1.5779	0.4179	5.5200e-003	0.4234	0.0000	1,062.4059	1,062.4059	0.0258	0.0284	1,071.5086
Total	**0.5449**	**3.6563**	**4.6747**	**0.0258**	**2.0807**	**0.0279**	**2.1086**	**0.5650**	**0.0264**	**0.5914**	**0.0000**	**2,426.6954**	**2,426.6954**	**0.0317**	**0.2322**	**2,496.6736**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.3882	1.9823	13.5791	0.0208		0.0607	0.0607		0.0607	0.0607	0.0000	1,787.4094	1,787.4094	0.4203	0.0000	1,797.9159
Total	**0.3882**	**1.9823**	**13.5791**	**0.0208**		**0.0607**	**0.0607**		**0.0607**	**0.0607**	**0.0000**	**1,787.4094**	**1,787.4094**	**0.4203**	**0.0000**	**1,797.9159**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0778	3.3838	0.9622	0.0142	0.5089	0.0219	0.5307	0.1471	0.0209	0.1680	0.0000	1,364.2895	1,364.2895	5.9300e-003	0.2038	1,425.1651
Worker	0.4671	0.2725	3.7125	0.0116	1.5719	6.0000e-003	1.5779	0.4179	5.5200e-003	0.4234	0.0000	1,062.4059	1,062.4059	0.0258	0.0284	1,071.5086
Total	**0.5449**	**3.6563**	**4.6747**	**0.0258**	**2.0807**	**0.0279**	**2.1086**	**0.5650**	**0.0264**	**0.5914**	**0.0000**	**2,426.6954**	**2,426.6954**	**0.0317**	**0.2322**	**2,496.6736**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	1.0577	9.6460	12.4484	0.0209		0.4081	0.4081		0.3839	0.3839	0.0000	1,794.2862	1,794.2862	0.4219	0.0000	1,804.8331
Total	**1.0577**	**9.6460**	**12.4484**	**0.0209**		**0.4081**	**0.4081**		**0.3839**	**0.3839**	**0.0000**	**1,794.2862**	**1,794.2862**	**0.4219**	**0.0000**	**1,804.8331**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0770	3.3744	0.9567	0.0140	0.5108	0.0218	0.5326	0.1477	0.0208	0.1685	0.0000	1,342.7887	1,342.7887	5.8300e-003	0.2003	1,402.6215
Worker	0.4357	0.2492	3.5228	0.0113	1.5779	5.6100e-003	1.5836	0.4195	5.1600e-003	0.4247	0.0000	1,039.3448	1,039.3448	0.0237	0.0271	1,048.0141
Total	**0.5127**	**3.6236**	**4.4795**	**0.0253**	**2.0887**	**0.0274**	**2.1162**	**0.5672**	**0.0260**	**0.5932**	**0.0000**	**2,382.1336**	**2,382.1336**	**0.0295**	**0.2274**	**2,450.6356**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.3897	1.9899	13.6313	0.0209		0.0609	0.0609		0.0609	0.0609	0.0000	1,794.2841	1,794.2841	0.4219	0.0000	1,804.8309
Total	**0.3897**	**1.9899**	**13.6313**	**0.0209**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**1,794.2841**	**1,794.2841**	**0.4219**	**0.0000**	**1,804.8309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0770	3.3744	0.9567	0.0140	0.5108	0.0218	0.5326	0.1477	0.0208	0.1685	0.0000	1,342.7887	1,342.7887	5.8300e-003	0.2003	1,402.6215
Worker	0.4357	0.2492	3.5228	0.0113	1.5779	5.6100e-003	1.5836	0.4195	5.1600e-003	0.4247	0.0000	1,039.3448	1,039.3448	0.0237	0.0271	1,048.0141
Total	**0.5127**	**3.6236**	**4.4795**	**0.0253**	**2.0887**	**0.0274**	**2.1162**	**0.5672**	**0.0260**	**0.5932**	**0.0000**	**2,382.1336**	**2,382.1336**	**0.0295**	**0.2274**	**2,450.6356**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	1.0130	6.1404	12.5055	0.0240		0.1146	0.1146		0.1146	0.1146	0.0000	2,033.7253	2,033.7253	0.0816	0.0000	2,035.7653
Total	**1.0130**	**6.1404**	**12.5055**	**0.0240**		**0.1146**	**0.1146**		**0.1146**	**0.1146**	**0.0000**	**2,033.7253**	**2,033.7253**	**0.0816**	**0.0000**	**2,035.7653**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0760	3.3579	0.9496	0.0138	0.5108	0.0217	0.5325	0.1477	0.0207	0.1684	0.0000	1,318.4829	1,318.4829	5.7300e-003	0.1964	1,377.1594
Worker	0.4048	0.2283	3.3497	0.0111	1.5779	5.2400e-003	1.5832	0.4195	4.8200e-003	0.4243	0.0000	1,015.0602	1,015.0602	0.0218	0.0259	1,023.3310
Total	**0.4809**	**3.5861**	**4.2993**	**0.0248**	**2.0888**	**0.0269**	**2.1156**	**0.5672**	**0.0255**	**0.5927**	**0.0000**	**2,333.5431**	**2,333.5431**	**0.0275**	**0.2224**	**2,400.4905**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.3465	1.8762	13.5926	0.0240		0.0420	0.0420		0.0420	0.0420	0.0000	2,033.7229	2,033.7229	0.0816	0.0000	2,035.7628
Total	**0.3465**	**1.8762**	**13.5926**	**0.0240**		**0.0420**	**0.0420**		**0.0420**	**0.0420**	**0.0000**	**2,033.7229**	**2,033.7229**	**0.0816**	**0.0000**	**2,035.7628**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0760	3.3579	0.9496	0.0138	0.5108	0.0217	0.5325	0.1477	0.0207	0.1684	0.0000	1,318.4829	1,318.4829	5.7300e-003	0.1964	1,377.1594
Worker	0.4048	0.2283	3.3497	0.0111	1.5779	5.2400e-003	1.5832	0.4195	4.8200e-003	0.4243	0.0000	1,015.0602	1,015.0602	0.0218	0.0259	1,023.3310
Total	**0.4809**	**3.5861**	**4.2993**	**0.0248**	**2.0888**	**0.0269**	**2.1156**	**0.5672**	**0.0255**	**0.5927**	**0.0000**	**2,333.5431**	**2,333.5431**	**0.0275**	**0.2224**	**2,400.4905**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	1.0130	6.1404	12.5055	0.0240		0.1146	0.1146		0.1146	0.1146	0.0000	2,033.7253	2,033.7253	0.0816	0.0000	2,035.7653
Total	**1.0130**	**6.1404**	**12.5055**	**0.0240**		**0.1146**	**0.1146**		**0.1146**	**0.1146**	**0.0000**	**2,033.7253**	**2,033.7253**	**0.0816**	**0.0000**	**2,035.7653**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0753	3.3454	0.9457	0.0135	0.5108	0.0215	0.5324	0.1477	0.0206	0.1683	0.0000	1,296.7380	1,296.7380	5.6400e-003	0.1930	1,354.3887
Worker	0.3744	0.2093	3.1942	0.0108	1.5779	4.8800e-003	1.5828	0.4195	4.4900e-003	0.4240	0.0000	993.3333	993.3333	0.0201	0.0249	1,001.2512
Total	**0.4498**	**3.5547**	**4.1398**	**0.0244**	**2.0888**	**0.0264**	**2.1152**	**0.5672**	**0.0251**	**0.5923**	**0.0000**	**2,290.0713**	**2,290.0713**	**0.0257**	**0.2179**	**2,355.6398**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.3465	1.8762	13.5926	0.0240		0.0420	0.0420		0.0420	0.0420	0.0000	2,033.7229	2,033.7229	0.0816	0.0000	2,035.7628
Total	**0.3465**	**1.8762**	**13.5926**	**0.0240**		**0.0420**	**0.0420**		**0.0420**	**0.0420**	**0.0000**	**2,033.7229**	**2,033.7229**	**0.0816**	**0.0000**	**2,035.7628**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0753	3.3454	0.9457	0.0135	0.5108	0.0215	0.5324	0.1477	0.0206	0.1683	0.0000	1,296.7380	1,296.7380	5.6400e-003	0.1930	1,354.3887
Worker	0.3744	0.2093	3.1942	0.0108	1.5779	4.8800e-003	1.5828	0.4195	4.4900e-003	0.4240	0.0000	993.3333	993.3333	0.0201	0.0249	1,001.2512
Total	**0.4498**	**3.5547**	**4.1398**	**0.0244**	**2.0888**	**0.0264**	**2.1152**	**0.5672**	**0.0251**	**0.5923**	**0.0000**	**2,290.0713**	**2,290.0713**	**0.0257**	**0.2179**	**2,355.6398**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	1.0169	6.1639	12.5534	0.0240		0.1151	0.1151		0.1151	0.1151	0.0000	2,041.5174	2,041.5174	0.0819	0.0000	2,043.5651
Total	**1.0169**	**6.1639**	**12.5534**	**0.0240**		**0.1151**	**0.1151**		**0.1151**	**0.1151**	**0.0000**	**2,041.5174**	**2,041.5174**	**0.0819**	**0.0000**	**2,043.5651**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0751	3.3465	0.9479	0.0134	0.5128	0.0215	0.5343	0.1482	0.0206	0.1688	0.0000	1,282.3218	1,282.3218	5.5900e-003	0.1907	1,339.2830
Worker	0.3499	0.1949	3.0762	0.0107	1.5840	4.5800e-003	1.5886	0.4211	4.2100e-003	0.4253	0.0000	977.8083	977.8083	0.0187	0.0242	985.4704
Total	**0.4251**	**3.5413**	**4.0240**	**0.0240**	**2.0968**	**0.0261**	**2.1229**	**0.5694**	**0.0248**	**0.5941**	**0.0000**	**2,260.1301**	**2,260.1301**	**0.0243**	**0.2148**	**2,324.7534**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	tons/yr										MT/yr					
Off-Road	0.3478	1.8834	13.6447	0.0240		0.0422	0.0422		0.0422	0.0422	0.0000	2,041.5149	2,041.5149	0.0819	0.0000	2,043.5627
Total	**0.3478**	**1.8834**	**13.6447**	**0.0240**		**0.0422**	**0.0422**		**0.0422**	**0.0422**	**0.0000**	**2,041.5149**	**2,041.5149**	**0.0819**	**0.0000**	**2,043.5627**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0751	3.3465	0.9479	0.0134	0.5128	0.0215	0.5343	0.1482	0.0206	0.1688	0.0000	1,282.3218	1,282.3218	5.5900e-003	0.1907	1,339.2830
Worker	0.3499	0.1949	3.0762	0.0107	1.5840	4.5800e-003	1.5886	0.4211	4.2100e-003	0.4253	0.0000	977.8083	977.8083	0.0187	0.0242	985.4704
Total	**0.4251**	**3.5413**	**4.0240**	**0.0240**	**2.0968**	**0.0261**	**2.1229**	**0.5694**	**0.0248**	**0.5941**	**0.0000**	**2,260.1301**	**2,260.1301**	**0.0243**	**0.2148**	**2,324.7534**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1358	0.8234	1.6770	3.2100e-003		0.0154	0.0154		0.0154	0.0154	0.0000	272.7218	272.7218	0.0109	0.0000	272.9953
Total	**0.1358**	**0.8234**	**1.6770**	**3.2100e-003**		**0.0154**	**0.0154**		**0.0154**	**0.0154**	**0.0000**	**272.7218**	**272.7218**	**0.0109**	**0.0000**	**272.9953**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0100	0.4459	0.1267	1.7600e-003	0.0685	2.8600e-003	0.0714	0.0198	2.7400e-003	0.0225	0.0000	169.0296	169.0296	7.4000e-004	0.0251	176.5325
Worker	0.0436	0.0243	0.3957	1.4000e-003	0.2116	5.7000e-004	0.2122	0.0563	5.3000e-004	0.0568	0.0000	128.3295	128.3295	2.3200e-003	3.1300e-003	129.3206
Total	**0.0536**	**0.4702**	**0.5224**	**3.1600e-003**	**0.2801**	**3.4300e-003**	**0.2835**	**0.0761**	**3.2700e-003**	**0.0793**	**0.0000**	**297.3590**	**297.3590**	**3.0600e-003**	**0.0283**	**305.8532**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Building Construction - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0465	0.2516	1.8228	3.2100e-003		5.6300e-003	5.6300e-003		5.6300e-003	5.6300e-003	0.0000	272.7215	272.7215	0.0109	0.0000	272.9950
Total	**0.0465**	**0.2516**	**1.8228**	**3.2100e-003**		**5.6300e-003**	**5.6300e-003**		**5.6300e-003**	**5.6300e-003**	**0.0000**	**272.7215**	**272.7215**	**0.0109**	**0.0000**	**272.9950**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0100	0.4459	0.1267	1.7600e-003	0.0685	2.8600e-003	0.0714	0.0198	2.7400e-003	0.0225	0.0000	169.0296	169.0296	7.4000e-004	0.0251	176.5325
Worker	0.0436	0.0243	0.3957	1.4000e-003	0.2116	5.7000e-004	0.2122	0.0563	5.3000e-004	0.0568	0.0000	128.3295	128.3295	2.3200e-003	3.1300e-003	129.3206
Total	**0.0536**	**0.4702**	**0.5224**	**3.1600e-003**	**0.2801**	**3.4300e-003**	**0.2835**	**0.0761**	**3.2700e-003**	**0.0793**	**0.0000**	**297.3590**	**297.3590**	**3.0600e-003**	**0.0283**	**305.8532**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Paving - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0762	0.3916	0.8717	1.5400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	132.5473	132.5473	6.2100e-003	0.0000	132.7027
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0762**	**0.3916**	**0.8717**	**1.5400e-003**		**0.0182**	**0.0182**		**0.0182**	**0.0182**	**0.0000**	**132.5473**	**132.5473**	**6.2100e-003**	**0.0000**	**132.7027**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	7.5000e-004	0.0123	4.0000e-005	6.5700e-003	2.0000e-005	6.5900e-003	1.7500e-003	2.0000e-005	1.7600e-003	0.0000	3.9854	3.9854	7.0000e-005	1.0000e-004	4.0162
Total	**1.3500e-003**	**7.5000e-004**	**0.0123**	**4.0000e-005**	**6.5700e-003**	**2.0000e-005**	**6.5900e-003**	**1.7500e-003**	**2.0000e-005**	**1.7600e-003**	**0.0000**	**3.9854**	**3.9854**	**7.0000e-005**	**1.0000e-004**	**4.0162**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Paving - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0154	0.0669	0.9513	1.5400e-003		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	132.5472	132.5472	6.2100e-003	0.0000	132.7025
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0154**	**0.0669**	**0.9513**	**1.5400e-003**		**2.0600e-003**	**2.0600e-003**		**2.0600e-003**	**2.0600e-003**	**0.0000**	**132.5472**	**132.5472**	**6.2100e-003**	**0.0000**	**132.7025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	7.5000e-004	0.0123	4.0000e-005	6.5700e-003	2.0000e-005	6.5900e-003	1.7500e-003	2.0000e-005	1.7600e-003	0.0000	3.9854	3.9854	7.0000e-005	1.0000e-004	4.0162
Total	**1.3500e-003**	**7.5000e-004**	**0.0123**	**4.0000e-005**	**6.5700e-003**	**2.0000e-005**	**6.5900e-003**	**1.7500e-003**	**2.0000e-005**	**1.7600e-003**	**0.0000**	**3.9854**	**3.9854**	**7.0000e-005**	**1.0000e-004**	**4.0162**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7076					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1900e-003	0.0471	0.0989	1.6000e-004		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	14.0429	14.0429	5.7000e-004	0.0000	14.0571
Total	**0.7148**	**0.0471**	**0.0989**	**1.6000e-004**		**1.1200e-003**	**1.1200e-003**		**1.1200e-003**	**1.1200e-003**	**0.0000**	**14.0429**	**14.0429**	**5.7000e-004**	**0.0000**	**14.0571**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0153	0.2491	8.8000e-004	0.1332	3.6000e-004	0.1335	0.0354	3.3000e-004	0.0357	0.0000	80.7705	80.7705	1.4600e-003	1.9700e-003	81.3944
Total	**0.0274**	**0.0153**	**0.2491**	**8.8000e-004**	**0.1332**	**3.6000e-004**	**0.1335**	**0.0354**	**3.3000e-004**	**0.0357**	**0.0000**	**80.7705**	**80.7705**	**1.4600e-003**	**1.9700e-003**	**81.3944**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Architectural Coating - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7076					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	7.0800e-003	0.1008	1.6000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	14.0429	14.0429	5.7000e-004	0.0000	14.0571
Total	**0.7092**	**7.0800e-003**	**0.1008**	**1.6000e-004**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**14.0429**	**14.0429**	**5.7000e-004**	**0.0000**	**14.0571**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0153	0.2491	8.8000e-004	0.1332	3.6000e-004	0.1335	0.0354	3.3000e-004	0.0357	0.0000	80.7705	80.7705	1.4600e-003	1.9700e-003	81.3944
Total	**0.0274**	**0.0153**	**0.2491**	**8.8000e-004**	**0.1332**	**3.6000e-004**	**0.1335**	**0.0354**	**3.3000e-004**	**0.0357**	**0.0000**	**80.7705**	**80.7705**	**1.4600e-003**	**1.9700e-003**	**81.3944**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Industrial Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Other Non-Asphalt Surfaces	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Unrefrigerated Warehouse-No Rail	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated - Tulare 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					
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

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated - Tulare 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 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					
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
Industrial 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
Other Non-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	0.0000
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated - Tulare 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

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	tons/yr										MT/yr					
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
Industrial 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
Other Non-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	0.0000
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated - Tulare 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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Unmitigated	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

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
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

7.0 Water Detail

7.1 Mitigation Measures Water

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
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 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

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
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated - Tulare 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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

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

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated - Tulare 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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Unmit Construction Demo, Site Prep, Grading

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	240.00	Acre	240.00	10,454,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Demolition - Note 4

Grading - Note 4

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	30.00
tblGrading	MaterialImported	0.00	130,000.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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					
2024	0.3277	3.2975	2.4146	5.3500e-003	2.6297	0.1451	2.7748	1.0452	0.1337	1.1788	0.0000	472.6444	472.6444	0.1378	4.8700e-003	477.5415
2025	0.3960	4.2230	3.6167	0.0109	1.6316	0.1531	1.7847	0.5399	0.1411	0.6810	0.0000	975.9197	975.9197	0.2317	0.0397	993.5287
2026	0.2651	2.8264	2.4220	7.2400e-003	1.3401	0.1027	1.4428	0.3887	0.0946	0.4833	0.0000	650.2379	650.2379	0.1553	0.0260	661.8604
Maximum	**0.3960**	**4.2230**	**3.6167**	**0.0109**	**2.6297**	**0.1531**	**2.7748**	**1.0452**	**0.1411**	**1.1788**	**0.0000**	**975.9197**	**975.9197**	**0.2317**	**0.0397**	**993.5287**

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					
2024	0.3277	3.2975	2.4146	5.3500e-003	1.1975	0.1451	1.3426	0.4741	0.1337	0.6078	0.0000	472.6439	472.6439	0.1378	4.8700e-003	477.5410
2025	0.3960	4.2230	3.6167	0.0109	0.7885	0.1531	0.9416	0.2578	0.1411	0.3989	0.0000	975.9188	975.9188	0.2317	0.0397	993.5279
2026	0.2651	2.8264	2.4220	7.2400e-003	0.6394	0.1027	0.7421	0.1849	0.0946	0.2794	0.0000	650.2373	650.2373	0.1553	0.0260	661.8599
Maximum	**0.3960**	**4.2230**	**3.6167**	**0.0109**	**1.1975**	**0.1531**	**1.3426**	**0.4741**	**0.1411**	**0.6078**	**0.0000**	**975.9188**	**975.9188**	**0.2317**	**0.0397**	**993.5279**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit Construction Demo, Site Prep, Grading - Tulare 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**53.13**	**0.00**	**49.58**	**53.55**	**0.00**	**45.11**	**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	**3-14-2024**	**6-13-2024**	1.3322	1.3322
2	**6-14-2024**	**9-13-2024**	0.9838	0.9838
3	**9-14-2024**	**12-13-2024**	1.0582	1.0582
4	**12-14-2024**	**3-13-2025**	1.1719	1.1719
5	**3-14-2025**	**6-13-2025**	1.1584	1.1584
6	**6-14-2025**	**9-13-2025**	1.1565	1.1565
7	**9-14-2025**	**12-13-2025**	1.1519	1.1519
8	**12-14-2025**	**3-13-2026**	1.1393	1.1393
9	**3-14-2026**	**6-13-2026**	1.1564	1.1564
10	**6-14-2026**	**9-13-2026**	1.0164	1.0164
		Highest	1.3322	1.3322

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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	tons/yr										MT/yr					
Area	0.8940	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	648.9144	648.9144	0.0548	6.6400e-003	652.2621
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
Total	**0.8940**	**2.0000e-005**	**2.2000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**648.9187**	**648.9187**	**0.0548**	**6.6400e-003**	**652.2667**

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	0.8940	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	648.9144	648.9144	0.0548	6.6400e-003	652.2621
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
Total	**0.8940**	**2.0000e-005**	**2.2000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**648.9187**	**648.9187**	**0.0548**	**6.6400e-003**	**652.2667**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	3/14/2024	4/24/2024	5	30	
2	Site Preparation	Site Preparation	3/14/2024	11/20/2024	5	180	
3	Grading	Grading	11/21/2024	9/2/2026	5	465	

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Acres of Grading (Site Preparation Phase): 270

Acres of Grading (Grading Phase): 1395

Acres of Paving: 240

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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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	6	15.00	0.00	5.00	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	16,250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					5.2000e-004	0.0000	5.2000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0337	0.3132	0.2956	5.8000e-004		0.0144	0.0144		0.0134	0.0134	0.0000	50.9941	50.9941	0.0143	0.0000	51.3508
Total	**0.0337**	**0.3132**	**0.2956**	**5.8000e-004**	**5.2000e-004**	**0.0144**	**0.0149**	**8.0000e-005**	**0.0134**	**0.0135**	**0.0000**	**50.9941**	**50.9941**	**0.0143**	**0.0000**	**51.3508**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	1.0000e-005	3.2000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1396	0.1396	0.0000	2.0000e-005	0.1462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	4.8000e-004	5.6200e-003	1.0000e-005	1.7900e-003	1.0000e-005	1.8000e-003	4.8000e-004	1.0000e-005	4.8000e-004	0.0000	1.3747	1.3747	4.0000e-005	4.0000e-005	1.3884
Total	**7.3000e-004**	**8.0000e-004**	**5.6900e-003**	**1.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8500e-003**	**4.9000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.5144**	**1.5144**	**4.0000e-005**	**6.0000e-005**	**1.5346**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.4000e-004	0.0000	2.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0337	0.3132	0.2956	5.8000e-004		0.0144	0.0144		0.0134	0.0134	0.0000	50.9940	50.9940	0.0143	0.0000	51.3507
Total	**0.0337**	**0.3132**	**0.2956**	**5.8000e-004**	**2.4000e-004**	**0.0144**	**0.0146**	**4.0000e-005**	**0.0134**	**0.0134**	**0.0000**	**50.9940**	**50.9940**	**0.0143**	**0.0000**	**51.3507**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	1.0000e-005	3.2000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1396	0.1396	0.0000	2.0000e-005	0.1462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	4.8000e-004	5.6200e-003	1.0000e-005	1.7900e-003	1.0000e-005	1.8000e-003	4.8000e-004	1.0000e-005	4.8000e-004	0.0000	1.3747	1.3747	4.0000e-005	4.0000e-005	1.3884
Total	**7.3000e-004**	**8.0000e-004**	**5.6900e-003**	**1.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8500e-003**	**4.9000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.5144**	**1.5144**	**4.0000e-005**	**6.0000e-005**	**1.5346**

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					1.7691	0.0000	1.7691	0.9092	0.0000	0.9092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2395	2.4458	1.6502	3.4300e-003		0.1106	0.1106		0.1018	0.1018	0.0000	301.1136	301.1136	0.0974	0.0000	303.5482
Total	**0.2395**	**2.4458**	**1.6502**	**3.4300e-003**	**1.7691**	**0.1106**	**1.8798**	**0.9092**	**0.1018**	**1.0110**	**0.0000**	**301.1136**	**301.1136**	**0.0974**	**0.0000**	**303.5482**

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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	5.1900e-003	3.4900e-003	0.0404	1.1000e-004	0.0129	6.0000e-005	0.0130	3.4300e-003	6.0000e-005	3.4900e-003	0.0000	9.8981	9.8981	3.2000e-004	3.0000e-004	9.9968
Total	**5.1900e-003**	**3.4900e-003**	**0.0404**	**1.1000e-004**	**0.0129**	**6.0000e-005**	**0.0130**	**3.4300e-003**	**6.0000e-005**	**3.4900e-003**	**0.0000**	**9.8981**	**9.8981**	**3.2000e-004**	**3.0000e-004**	**9.9968**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.7961	0.0000	0.7961	0.4092	0.0000	0.4092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2395	2.4458	1.6502	3.4300e-003		0.1106	0.1106		0.1018	0.1018	0.0000	301.1132	301.1132	0.0974	0.0000	303.5479
Total	**0.2395**	**2.4458**	**1.6502**	**3.4300e-003**	**0.7961**	**0.1106**	**0.9068**	**0.4092**	**0.1018**	**0.5109**	**0.0000**	**301.1132**	**301.1132**	**0.0974**	**0.0000**	**303.5479**

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	5.1900e-003	3.4900e-003	0.0404	1.1000e-004	0.0129	6.0000e-005	0.0130	3.4300e-003	6.0000e-005	3.4900e-003	0.0000	9.8981	9.8981	3.2000e-004	3.0000e-004	9.9968
Total	**5.1900e-003**	**3.4900e-003**	**0.0404**	**1.1000e-004**	**0.0129**	**6.0000e-005**	**0.0130**	**3.4300e-003**	**6.0000e-005**	**3.4900e-003**	**0.0000**	**9.8981**	**9.8981**	**3.2000e-004**	**3.0000e-004**	**9.9968**

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					0.8344	0.0000	0.8344	0.1290	0.0000	0.1290	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0467	0.4695	0.4020	9.0000e-004		0.0194	0.0194		0.0178	0.0178	0.0000	79.0533	79.0533	0.0256	0.0000	79.6925
Total	**0.0467**	**0.4695**	**0.4020**	**9.0000e-004**	**0.8344**	**0.0194**	**0.8537**	**0.1290**	**0.0178**	**0.1468**	**0.0000**	**79.0533**	**79.0533**	**0.0256**	**0.0000**	**79.6925**

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	1.0800e-003	0.0641	0.0134	2.9000e-004	8.6500e-003	6.1000e-004	9.2600e-003	2.3800e-003	5.8000e-004	2.9600e-003	0.0000	28.2991	28.2991	1.4000e-004	4.4500e-003	29.6290
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.2000e-004	7.2400e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7719	1.7719	6.0000e-005	5.0000e-005	1.7896
Total	**2.0100e-003**	**0.0648**	**0.0207**	**3.1000e-004**	**0.0110**	**6.2000e-004**	**0.0116**	**2.9900e-003**	**5.9000e-004**	**3.5800e-003**	**0.0000**	**30.0710**	**30.0710**	**2.0000e-004**	**4.5000e-003**	**31.4186**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3755	0.0000	0.3755	0.0580	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0467	0.4695	0.4020	9.0000e-004		0.0194	0.0194		0.0178	0.0178	0.0000	79.0532	79.0532	0.0256	0.0000	79.6924
Total	**0.0467**	**0.4695**	**0.4020**	**9.0000e-004**	**0.3755**	**0.0194**	**0.3948**	**0.0580**	**0.0178**	**0.0759**	**0.0000**	**79.0532**	**79.0532**	**0.0256**	**0.0000**	**79.6924**

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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	1.0800e-003	0.0641	0.0134	2.9000e-004	8.6500e-003	6.1000e-004	9.2600e-003	2.3800e-003	5.8000e-004	2.9600e-003	0.0000	28.2991	28.2991	1.4000e-004	4.4500e-003	29.6290
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.2000e-004	7.2400e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7719	1.7719	6.0000e-005	5.0000e-005	1.7896
Total	**2.0100e-003**	**0.0648**	**0.0207**	**3.1000e-004**	**0.0110**	**6.2000e-004**	**0.0116**	**2.9900e-003**	**5.9000e-004**	**3.5800e-003**	**0.0000**	**30.0710**	**30.0710**	**2.0000e-004**	**4.5000e-003**	**31.4186**

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					1.5329	0.0000	1.5329	0.5130	0.0000	0.5130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6466	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573
Total	**0.3786**	**3.6466**	**3.4362**	**8.1000e-003**	**1.5329**	**0.1476**	**1.6805**	**0.5130**	**0.1358**	**0.6487**	**0.0000**	**711.3061**	**711.3061**	**0.2301**	**0.0000**	**717.0573**

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	9.6600e-003	0.5715	0.1205	2.5900e-003	0.0778	5.4600e-003	0.0833	0.0214	5.2300e-003	0.0266	0.0000	249.2077	249.2077	1.2200e-003	0.0392	260.9187
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7100e-003	4.9700e-003	0.0600	1.7000e-004	0.0208	1.0000e-004	0.0209	5.5300e-003	9.0000e-005	5.6200e-003	0.0000	15.4060	15.4060	4.6000e-004	4.5000e-004	15.5527
Total	**0.0174**	**0.5764**	**0.1805**	**2.7600e-003**	**0.0986**	**5.5600e-003**	**0.1042**	**0.0269**	**5.3200e-003**	**0.0323**	**0.0000**	**264.6136**	**264.6136**	**1.6800e-003**	**0.0397**	**276.4714**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.6898	0.0000	0.6898	0.2308	0.0000	0.2308	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6465	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565
Total	**0.3786**	**3.6465**	**3.4362**	**8.1000e-003**	**0.6898**	**0.1476**	**0.8374**	**0.2308**	**0.1358**	**0.3666**	**0.0000**	**711.3052**	**711.3052**	**0.2301**	**0.0000**	**717.0565**

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	9.6600e-003	0.5715	0.1205	2.5900e-003	0.0778	5.4600e-003	0.0833	0.0214	5.2300e-003	0.0266	0.0000	249.2077	249.2077	1.2200e-003	0.0392	260.9187
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7100e-003	4.9700e-003	0.0600	1.7000e-004	0.0208	1.0000e-004	0.0209	5.5300e-003	9.0000e-005	5.6200e-003	0.0000	15.4060	15.4060	4.6000e-004	4.5000e-004	15.5527
Total	**0.0174**	**0.5764**	**0.1805**	**2.7600e-003**	**0.0986**	**5.5600e-003**	**0.1042**	**0.0269**	**5.3200e-003**	**0.0323**	**0.0000**	**264.6136**	**264.6136**	**1.6800e-003**	**0.0397**	**276.4714**

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					1.2740	0.0000	1.2740	0.3706	0.0000	0.3706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2539	2.4450	2.3040	5.4300e-003		0.0990	0.0990		0.0910	0.0910	0.0000	476.9294	476.9294	0.1543	0.0000	480.7856
Total	**0.2539**	**2.4450**	**2.3040**	**5.4300e-003**	**1.2740**	**0.0990**	**1.3729**	**0.3706**	**0.0910**	**0.4617**	**0.0000**	**476.9294**	**476.9294**	**0.1543**	**0.0000**	**480.7856**

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	6.4300e-003	0.3784	0.0805	1.7000e-003	0.0522	3.6300e-003	0.0558	0.0144	3.4800e-003	0.0178	0.0000	163.3232	163.3232	8.0000e-004	0.0257	170.9982
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7900e-003	2.9600e-003	0.0375	1.1000e-004	0.0139	6.0000e-005	0.0140	3.7100e-003	6.0000e-005	3.7600e-003	0.0000	9.9854	9.9854	2.8000e-004	2.8000e-004	10.0767
Total	**0.0112**	**0.3814**	**0.1180**	**1.8100e-003**	**0.0661**	**3.6900e-003**	**0.0698**	**0.0181**	**3.5400e-003**	**0.0216**	**0.0000**	**173.3085**	**173.3085**	**1.0800e-003**	**0.0260**	**181.0749**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5733	0.0000	0.5733	0.1668	0.0000	0.1668	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2539	2.4450	2.3040	5.4300e-003		0.0990	0.0990		0.0910	0.0910	0.0000	476.9288	476.9288	0.1543	0.0000	480.7850
Total	**0.2539**	**2.4450**	**2.3040**	**5.4300e-003**	**0.5733**	**0.0990**	**0.6722**	**0.1668**	**0.0910**	**0.2578**	**0.0000**	**476.9288**	**476.9288**	**0.1543**	**0.0000**	**480.7850**

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	6.4300e-003	0.3784	0.0805	1.7000e-003	0.0522	3.6300e-003	0.0558	0.0144	3.4800e-003	0.0178	0.0000	163.3232	163.3232	8.0000e-004	0.0257	170.9982
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7900e-003	2.9600e-003	0.0375	1.1000e-004	0.0139	6.0000e-005	0.0140	3.7100e-003	6.0000e-005	3.7600e-003	0.0000	9.9854	9.9854	2.8000e-004	2.8000e-004	10.0767
Total	**0.0112**	**0.3814**	**0.1180**	**1.8100e-003**	**0.0661**	**3.6900e-003**	**0.0698**	**0.0181**	**3.5400e-003**	**0.0216**	**0.0000**	**173.3085**	**173.3085**	**1.0800e-003**	**0.0260**	**181.0749**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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	648.9144	648.9144	0.0548	6.6400e-003	652.2621
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	648.9144	648.9144	0.0548	6.6400e-003	652.2621
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

	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	tons/yr										MT/yr					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	tons/yr										MT/yr					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	3.65904e+006	648.9144	0.0548	6.6400e-003	652.2621
Total		**648.9144**	**0.0548**	**6.6400e-003**	**652.2621**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	3.65904e+006	648.9144	0.0548	6.6400e-003	652.2621
Total		**648.9144**	**0.0548**	**6.6400e-003**	**652.2621**

6.0 Area Detail

6.1 Mitigation Measures Area

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	0.8940	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Unmitigated	0.8940	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003

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	0.2181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6758					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Total	**0.8940**	**2.0000e-005**	**2.2000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.2900e-003**	**4.2900e-003**	**1.0000e-005**	**0.0000**	**4.5700e-003**

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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	0.2181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6758					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Total	**0.8940**	**2.0000e-005**	**2.2000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.2900e-003**	**4.2900e-003**	**1.0000e-005**	**0.0000**	**4.5700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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			
Parking Lot	0	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
Land Use	tons	MT/yr			
Parking Lot	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	240.00	Acre	240.00	10,454,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Demolition - Note 4

Grading - Note 4

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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
tblConstructionPhase	NumDays	300.00	30.00
tblGrading	MaterialImported	0.00	130,000.00

2.0 Emissions Summary

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					
2024	0.3277	3.2975	2.4146	5.3500e-003	2.6297	0.1451	2.7748	1.0452	0.1337	1.1788	0.0000	472.6444	472.6444	0.1378	4.8700e-003	477.5415
2025	0.3960	4.2230	3.6167	0.0109	1.6316	0.1531	1.7847	0.5399	0.1411	0.6810	0.0000	975.9197	975.9197	0.2317	0.0397	993.5287
2026	0.2651	2.8264	2.4220	7.2400e-003	1.3401	0.1027	1.4428	0.3887	0.0946	0.4833	0.0000	650.2379	650.2379	0.1553	0.0260	661.8604
Maximum	**0.3960**	**4.2230**	**3.6167**	**0.0109**	**2.6297**	**0.1531**	**2.7748**	**1.0452**	**0.1411**	**1.1788**	**0.0000**	**975.9197**	**975.9197**	**0.2317**	**0.0397**	**993.5287**

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					
2024	0.0678	0.3285	2.7727	5.3500e-003	1.1975	8.6800e-003	1.2062	0.4741	8.6500e-003	0.4828	0.0000	472.6439	472.6439	0.1378	4.8700e-003	477.5410
2025	0.1168	1.0071	4.4869	0.0109	0.7885	0.0188	0.8073	0.2578	0.0186	0.2763	0.0000	975.9188	975.9188	0.2317	0.0397	993.5279
2026	0.0779	0.6702	3.0054	7.2400e-003	0.6394	0.0126	0.6520	0.1849	0.0124	0.1973	0.0000	650.2373	650.2373	0.1553	0.0260	661.8599
Maximum	**0.1168**	**1.0071**	**4.4869**	**0.0109**	**1.1975**	**0.0188**	**1.2062**	**0.4741**	**0.0186**	**0.4828**	**0.0000**	**975.9188**	**975.9188**	**0.2317**	**0.0397**	**993.5279**

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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	N20	CO2e
Percent Reduction	**73.46**	**80.61**	**-21.43**	**0.00**	**53.13**	**90.00**	**55.59**	**53.55**	**89.27**	**59.18**	**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	**3-14-2024**	**6-13-2024**	1.3322	0.1235
2	**6-14-2024**	**9-13-2024**	0.9838	0.0850
3	**9-14-2024**	**12-13-2024**	1.0582	0.1348
4	**12-14-2024**	**3-13-2025**	1.1719	0.2805
5	**3-14-2025**	**6-13-2025**	1.1584	0.2784
6	**6-14-2025**	**9-13-2025**	1.1565	0.2765
7	**9-14-2025**	**12-13-2025**	1.1519	0.2814
8	**12-14-2025**	**3-13-2026**	1.1393	0.2785
9	**3-14-2026**	**6-13-2026**	1.1564	0.2764
10	**6-14-2026**	**9-13-2026**	1.0164	0.2417
		Highest	1.3322	0.2814

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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	0.8940	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	648.9144	648.9144	0.0548	6.6400e-003	652.2621
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
Total	**0.8940**	**2.0000e-005**	**2.2000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**648.9187**	**648.9187**	**0.0548**	**6.6400e-003**	**652.2667**

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	0.8940	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	648.9144	648.9144	0.0548	6.6400e-003	652.2621
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
Total	**0.8940**	**2.0000e-005**	**2.2000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**648.9187**	**648.9187**	**0.0548**	**6.6400e-003**	**652.2667**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	3/14/2024	4/24/2024	5	30	
2	Site Preparation	Site Preparation	3/14/2024	11/20/2024	5	180	
3	Grading	Grading	11/21/2024	9/2/2026	5	465	

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Acres of Grading (Site Preparation Phase): 270

Acres of Grading (Grading Phase): 1395

Acres of Paving: 240

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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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	6	15.00	0.00	5.00	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	16,250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

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Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					5.2000e-004	0.0000	5.2000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0337	0.3132	0.2956	5.8000e-004		0.0144	0.0144		0.0134	0.0134	0.0000	50.9941	50.9941	0.0143	0.0000	51.3508
Total	**0.0337**	**0.3132**	**0.2956**	**5.8000e-004**	**5.2000e-004**	**0.0144**	**0.0149**	**8.0000e-005**	**0.0134**	**0.0135**	**0.0000**	**50.9941**	**50.9941**	**0.0143**	**0.0000**	**51.3508**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	1.0000e-005	3.2000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1396	0.1396	0.0000	2.0000e-005	0.1462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	4.8000e-004	5.6200e-003	1.0000e-005	1.7900e-003	1.0000e-005	1.8000e-003	4.8000e-004	1.0000e-005	4.8000e-004	0.0000	1.3747	1.3747	4.0000e-005	4.0000e-005	1.3884
Total	**7.3000e-004**	**8.0000e-004**	**5.6900e-003**	**1.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8500e-003**	**4.9000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.5144**	**1.5144**	**4.0000e-005**	**6.0000e-005**	**1.5346**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.4000e-004	0.0000	2.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9300e-003	0.0301	0.3492	5.8000e-004		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	50.9940	50.9940	0.0143	0.0000	51.3507
Total	**6.9300e-003**	**0.0301**	**0.3492**	**5.8000e-004**	**2.4000e-004**	**9.2000e-004**	**1.1600e-003**	**4.0000e-005**	**9.2000e-004**	**9.6000e-004**	**0.0000**	**50.9940**	**50.9940**	**0.0143**	**0.0000**	**51.3507**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	1.0000e-005	3.2000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1396	0.1396	0.0000	2.0000e-005	0.1462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	4.8000e-004	5.6200e-003	1.0000e-005	1.7900e-003	1.0000e-005	1.8000e-003	4.8000e-004	1.0000e-005	4.8000e-004	0.0000	1.3747	1.3747	4.0000e-005	4.0000e-005	1.3884
Total	**7.3000e-004**	**8.0000e-004**	**5.6900e-003**	**1.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8500e-003**	**4.9000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.5144**	**1.5144**	**4.0000e-005**	**6.0000e-005**	**1.5346**

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					1.7691	0.0000	1.7691	0.9092	0.0000	0.9092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2395	2.4458	1.6502	3.4300e-003		0.1106	0.1106		0.1018	0.1018	0.0000	301.1136	301.1136	0.0974	0.0000	303.5482
Total	**0.2395**	**2.4458**	**1.6502**	**3.4300e-003**	**1.7691**	**0.1106**	**1.8798**	**0.9092**	**0.1018**	**1.0110**	**0.0000**	**301.1136**	**301.1136**	**0.0974**	**0.0000**	**303.5482**

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	5.1900e-003	3.4900e-003	0.0404	1.1000e-004	0.0129	6.0000e-005	0.0130	3.4300e-003	6.0000e-005	3.4900e-003	0.0000	9.8981	9.8981	3.2000e-004	3.0000e-004	9.9968
Total	**5.1900e-003**	**3.4900e-003**	**0.0404**	**1.1000e-004**	**0.0129**	**6.0000e-005**	**0.0130**	**3.4300e-003**	**6.0000e-005**	**3.4900e-003**	**0.0000**	**9.8981**	**9.8981**	**3.2000e-004**	**3.0000e-004**	**9.9968**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.7961	0.0000	0.7961	0.4092	0.0000	0.4092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0419	0.1816	1.8782	3.4300e-003		5.5900e-003	5.5900e-003		5.5900e-003	5.5900e-003	0.0000	301.1132	301.1132	0.0974	0.0000	303.5479
Total	**0.0419**	**0.1816**	**1.8782**	**3.4300e-003**	**0.7961**	**5.5900e-003**	**0.8017**	**0.4092**	**5.5900e-003**	**0.4147**	**0.0000**	**301.1132**	**301.1132**	**0.0974**	**0.0000**	**303.5479**

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	5.1900e-003	3.4900e-003	0.0404	1.1000e-004	0.0129	6.0000e-005	0.0130	3.4300e-003	6.0000e-005	3.4900e-003	0.0000	9.8981	9.8981	3.2000e-004	3.0000e-004	9.9968
Total	**5.1900e-003**	**3.4900e-003**	**0.0404**	**1.1000e-004**	**0.0129**	**6.0000e-005**	**0.0130**	**3.4300e-003**	**6.0000e-005**	**3.4900e-003**	**0.0000**	**9.8981**	**9.8981**	**3.2000e-004**	**3.0000e-004**	**9.9968**

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					0.8344	0.0000	0.8344	0.1290	0.0000	0.1290	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0467	0.4695	0.4020	9.0000e-004		0.0194	0.0194		0.0178	0.0178	0.0000	79.0533	79.0533	0.0256	0.0000	79.6925
Total	**0.0467**	**0.4695**	**0.4020**	**9.0000e-004**	**0.8344**	**0.0194**	**0.8537**	**0.1290**	**0.0178**	**0.1468**	**0.0000**	**79.0533**	**79.0533**	**0.0256**	**0.0000**	**79.6925**

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	1.0800e-003	0.0641	0.0134	2.9000e-004	8.6500e-003	6.1000e-004	9.2600e-003	2.3800e-003	5.8000e-004	2.9600e-003	0.0000	28.2991	28.2991	1.4000e-004	4.4500e-003	29.6290
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.2000e-004	7.2400e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7719	1.7719	6.0000e-005	5.0000e-005	1.7896
Total	**2.0100e-003**	**0.0648**	**0.0207**	**3.1000e-004**	**0.0110**	**6.2000e-004**	**0.0116**	**2.9900e-003**	**5.9000e-004**	**3.5800e-003**	**0.0000**	**30.0710**	**30.0710**	**2.0000e-004**	**4.5000e-003**	**31.4186**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3755	0.0000	0.3755	0.0580	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0479	0.4785	9.0000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	79.0532	79.0532	0.0256	0.0000	79.6924
Total	**0.0110**	**0.0479**	**0.4785**	**9.0000e-004**	**0.3755**	**1.4700e-003**	**0.3769**	**0.0580**	**1.4700e-003**	**0.0595**	**0.0000**	**79.0532**	**79.0532**	**0.0256**	**0.0000**	**79.6924**

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	1.0800e-003	0.0641	0.0134	2.9000e-004	8.6500e-003	6.1000e-004	9.2600e-003	2.3800e-003	5.8000e-004	2.9600e-003	0.0000	28.2991	28.2991	1.4000e-004	4.4500e-003	29.6290
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.2000e-004	7.2400e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7719	1.7719	6.0000e-005	5.0000e-005	1.7896
Total	**2.0100e-003**	**0.0648**	**0.0207**	**3.1000e-004**	**0.0110**	**6.2000e-004**	**0.0116**	**2.9900e-003**	**5.9000e-004**	**3.5800e-003**	**0.0000**	**30.0710**	**30.0710**	**2.0000e-004**	**4.5000e-003**	**31.4186**

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					1.5329	0.0000	1.5329	0.5130	0.0000	0.5130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6466	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573
Total	**0.3786**	**3.6466**	**3.4362**	**8.1000e-003**	**1.5329**	**0.1476**	**1.6805**	**0.5130**	**0.1358**	**0.6487**	**0.0000**	**711.3061**	**711.3061**	**0.2301**	**0.0000**	**717.0573**

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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	9.6600e-003	0.5715	0.1205	2.5900e-003	0.0778	5.4600e-003	0.0833	0.0214	5.2300e-003	0.0266	0.0000	249.2077	249.2077	1.2200e-003	0.0392	260.9187
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7100e-003	4.9700e-003	0.0600	1.7000e-004	0.0208	1.0000e-004	0.0209	5.5300e-003	9.0000e-005	5.6200e-003	0.0000	15.4060	15.4060	4.6000e-004	4.5000e-004	15.5527
Total	**0.0174**	**0.5764**	**0.1805**	**2.7600e-003**	**0.0986**	**5.5600e-003**	**0.1042**	**0.0269**	**5.3200e-003**	**0.0323**	**0.0000**	**264.6136**	**264.6136**	**1.6800e-003**	**0.0397**	**276.4714**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.6898	0.0000	0.6898	0.2308	0.0000	0.2308	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0994	0.4307	4.3064	8.1000e-003		0.0133	0.0133		0.0133	0.0133	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565
Total	**0.0994**	**0.4307**	**4.3064**	**8.1000e-003**	**0.6898**	**0.0133**	**0.7031**	**0.2308**	**0.0133**	**0.2441**	**0.0000**	**711.3052**	**711.3052**	**0.2301**	**0.0000**	**717.0565**

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	9.6600e-003	0.5715	0.1205	2.5900e-003	0.0778	5.4600e-003	0.0833	0.0214	5.2300e-003	0.0266	0.0000	249.2077	249.2077	1.2200e-003	0.0392	260.9187
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7100e-003	4.9700e-003	0.0600	1.7000e-004	0.0208	1.0000e-004	0.0209	5.5300e-003	9.0000e-005	5.6200e-003	0.0000	15.4060	15.4060	4.6000e-004	4.5000e-004	15.5527
Total	**0.0174**	**0.5764**	**0.1805**	**2.7600e-003**	**0.0986**	**5.5600e-003**	**0.1042**	**0.0269**	**5.3200e-003**	**0.0323**	**0.0000**	**264.6136**	**264.6136**	**1.6800e-003**	**0.0397**	**276.4714**

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					1.2740	0.0000	1.2740	0.3706	0.0000	0.3706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2539	2.4450	2.3040	5.4300e-003		0.0990	0.0990		0.0910	0.0910	0.0000	476.9294	476.9294	0.1543	0.0000	480.7856
Total	**0.2539**	**2.4450**	**2.3040**	**5.4300e-003**	**1.2740**	**0.0990**	**1.3729**	**0.3706**	**0.0910**	**0.4617**	**0.0000**	**476.9294**	**476.9294**	**0.1543**	**0.0000**	**480.7856**

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	6.4300e-003	0.3784	0.0805	1.7000e-003	0.0522	3.6300e-003	0.0558	0.0144	3.4800e-003	0.0178	0.0000	163.3232	163.3232	8.0000e-004	0.0257	170.9982
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7900e-003	2.9600e-003	0.0375	1.1000e-004	0.0139	6.0000e-005	0.0140	3.7100e-003	6.0000e-005	3.7600e-003	0.0000	9.9854	9.9854	2.8000e-004	2.8000e-004	10.0767
Total	**0.0112**	**0.3814**	**0.1180**	**1.8100e-003**	**0.0661**	**3.6900e-003**	**0.0698**	**0.0181**	**3.5400e-003**	**0.0216**	**0.0000**	**173.3085**	**173.3085**	**1.0800e-003**	**0.0260**	**181.0749**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5733	0.0000	0.5733	0.1668	0.0000	0.1668	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0666	0.2888	2.8874	5.4300e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	476.9288	476.9288	0.1543	0.0000	480.7850
Total	**0.0666**	**0.2888**	**2.8874**	**5.4300e-003**	**0.5733**	**8.8800e-003**	**0.5822**	**0.1668**	**8.8800e-003**	**0.1757**	**0.0000**	**476.9288**	**476.9288**	**0.1543**	**0.0000**	**480.7850**

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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	6.4300e-003	0.3784	0.0805	1.7000e-003	0.0522	3.6300e-003	0.0558	0.0144	3.4800e-003	0.0178	0.0000	163.3232	163.3232	8.0000e-004	0.0257	170.9982
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7900e-003	2.9600e-003	0.0375	1.1000e-004	0.0139	6.0000e-005	0.0140	3.7100e-003	6.0000e-005	3.7600e-003	0.0000	9.9854	9.9854	2.8000e-004	2.8000e-004	10.0767
Total	**0.0112**	**0.3814**	**0.1180**	**1.8100e-003**	**0.0661**	**3.6900e-003**	**0.0698**	**0.0181**	**3.5400e-003**	**0.0216**	**0.0000**	**173.3085**	**173.3085**	**1.0800e-003**	**0.0260**	**181.0749**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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	648.9144	648.9144	0.0548	6.6400e-003	652.2621
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	648.9144	648.9144	0.0548	6.6400e-003	652.2621
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

	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	tons/yr										MT/yr					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	tons/yr										MT/yr					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	3.65904e+006	648.9144	0.0548	6.6400e-003	652.2621
Total		**648.9144**	**0.0548**	**6.6400e-003**	**652.2621**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	3.65904e+006	648.9144	0.0548	6.6400e-003	652.2621
Total		**648.9144**	**0.0548**	**6.6400e-003**	**652.2621**

6.0 Area Detail

6.1 Mitigation Measures Area

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	0.8940	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Unmitigated	0.8940	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003

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	0.2181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6758					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Total	**0.8940**	**2.0000e-005**	**2.2000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.2900e-003**	**4.2900e-003**	**1.0000e-005**	**0.0000**	**4.5700e-003**

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	0.2181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6758					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.2900e-003	4.2900e-003	1.0000e-005	0.0000	4.5700e-003
Total	**0.8940**	**2.0000e-005**	**2.2000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.2900e-003**	**4.2900e-003**	**1.0000e-005**	**0.0000**	**4.5700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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			
Parking Lot	0	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
Land Use	tons	MT/yr			
Parking Lot	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,864.70	1000sqft	42.81	1,864,700.00	0
Parking Lot	75.19	Acre	75.19	3,275,276.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	932350	0
tblAreaCoating	Area_Nonresidential_Interior	2797050	0
tblAreaCoating	Area_Parking	196517	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	3,100.00	262.00
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	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	8.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	1,752.82	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	431,211,875.00	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					
2024	71.1757	185.8782	234.7728	0.4058	3.0826	7.8662	10.9489	0.8426	7.3933	8.2359	0.0000	39,078.5184	39,078.5184	8.2573	0.7844	39,518.7039
2025	69.3979	173.0921	232.5897	0.4045	3.0826	6.7882	9.8708	0.8426	6.3800	7.2226	0.0000	38,933.3970	38,933.3970	8.1876	0.7621	39,365.1875
Maximum	**71.1757**	**185.8782**	**234.7728**	**0.4058**	**3.0826**	**7.8662**	**10.9489**	**0.8426**	**7.3933**	**8.2359**	**0.0000**	**39,078.5184**	**39,078.5184**	**8.2573**	**0.7844**	**39,518.7039**

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					
2024	71.1757	185.8782	234.7728	0.4058	3.0826	7.8662	10.9489	0.8426	7.3933	8.2359	0.0000	39,078.5184	39,078.5184	8.2573	0.7844	39,518.7038
2025	69.3979	173.0921	232.5897	0.4045	3.0826	6.7882	9.8708	0.8426	6.3800	7.2226	0.0000	38,933.3970	38,933.3970	8.1876	0.7621	39,365.1875
Maximum	**71.1757**	**185.8782**	**234.7728**	**0.4058**	**3.0826**	**7.8662**	**10.9489**	**0.8426**	**7.3933**	**8.2359**	**0.0000**	**39,078.5184**	**39,078.5184**	**8.2573**	**0.7844**	**39,518.7038**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare 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	N20	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

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
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
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**	**0.0000**	**7.0000e-004**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**	**0.0000**	**0.4522**

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
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
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**	**0.0000**	**7.0000e-004**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**	**0.0000**	**0.4522**

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	N20	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	Building Construction	Building Construction	3/14/2024	3/14/2025	5	262	
2	Paving	Paving	3/14/2024	1/15/2025	5	220	
3	Architectural Coating	Architectural Coating	5/10/2024	3/13/2025	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 75.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,797,050; Non-Residential Outdoor: 932,350; Striped Parking Area: 196,517 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	12	6.90	231	0.29
Building Construction	Forklifts	32	8.90	89	0.20
Building Construction	Generator Sets	12	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	32	7.80	97	0.37
Building Construction	Welders	12	7.90	46	0.45
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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	100	2,159.00	842.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	432.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	17.4501	159.4230	191.8101	0.3196		7.2738	7.2738		6.8418	6.8418		30,310.2465	30,310.2465	7.1697		30,489.4892
Total	**17.4501**	**159.4230**	**191.8101**	**0.3196**		**7.2738**	**7.2738**		**6.8418**	**6.8418**		**30,310.2465**	**30,310.2465**	**7.1697**		**30,489.4892**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6321	14.0376	8.3842	0.0367	0.8791	0.0417	0.9208	0.2551	0.0399	0.2950		3,883.0686	3,883.0686	0.0400	0.5927	4,060.6822
Worker	4.5839	1.3871	15.0307	0.0196	1.8255	0.0177	1.8433	0.4867	0.0163	0.5030		1,985.1931	1,985.1931	0.2633	0.1589	2,039.1132
Total	**5.2160**	**15.4247**	**23.4149**	**0.0564**	**2.7046**	**0.0594**	**2.7640**	**0.7419**	**0.0562**	**0.7980**		**5,868.2617**	**5,868.2617**	**0.3032**	**0.7515**	**6,099.7954**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	17.4501	159.4230	191.8101	0.3196		7.2738	7.2738		6.8418	6.8418	0.0000	30,310.2465	30,310.2465	7.1697		30,489.4892
Total	**17.4501**	**159.4230**	**191.8101**	**0.3196**		**7.2738**	**7.2738**		**6.8418**	**6.8418**	**0.0000**	**30,310.2465**	**30,310.2465**	**7.1697**		**30,489.4892**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6321	14.0376	8.3842	0.0367	0.8791	0.0417	0.9208	0.2551	0.0399	0.2950		3,883.0686	3,883.0686	0.0400	0.5927	4,060.6822
Worker	4.5839	1.3871	15.0307	0.0196	1.8255	0.0177	1.8433	0.4867	0.0163	0.5030		1,985.1931	1,985.1931	0.2633	0.1589	2,039.1132
Total	**5.2160**	**15.4247**	**23.4149**	**0.0564**	**2.7046**	**0.0594**	**2.7640**	**0.7419**	**0.0562**	**0.7980**		**5,868.2617**	**5,868.2617**	**0.3032**	**0.7515**	**6,099.7954**

3.2 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	16.2145	147.8725	190.8364	0.3198		6.2563	6.2563		5.8850	5.8850		30,319.4625	30,319.4625	7.1294		30,497.6975
Total	**16.2145**	**147.8725**	**190.8364**	**0.3198**		**6.2563**	**6.2563**		**5.8850**	**5.8850**		**30,319.4625**	**30,319.4625**	**7.1294**		**30,497.6975**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6228	13.9687	8.2844	0.0360	0.8791	0.0416	0.9207	0.2551	0.0398	0.2949		3,811.2357	3,811.2357	0.0392	0.5811	3,985.3960
Worker	4.2111	1.2624	14.1517	0.0190	1.8255	0.0168	1.8424	0.4867	0.0155	0.5022		1,917.5049	1,917.5049	0.2401	0.1499	1,968.1815
Total	**4.8339**	**15.2312**	**22.4362**	**0.0550**	**2.7047**	**0.0584**	**2.7630**	**0.7419**	**0.0552**	**0.7971**		**5,728.7406**	**5,728.7406**	**0.2794**	**0.7311**	**5,953.5775**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	16.2145	147.8725	190.8364	0.3198		6.2563	6.2563		5.8850	5.8850	0.0000	30,319.4624	30,319.4624	7.1294		30,497.6975
Total	**16.2145**	**147.8725**	**190.8364**	**0.3198**		**6.2563**	**6.2563**		**5.8850**	**5.8850**	**0.0000**	**30,319.4624**	**30,319.4624**	**7.1294**		**30,497.6975**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6228	13.9687	8.2844	0.0360	0.8791	0.0416	0.9207	0.2551	0.0398	0.2949		3,811.2357	3,811.2357	0.0392	0.5811	3,985.3960
Worker	4.2111	1.2624	14.1517	0.0190	1.8255	0.0168	1.8424	0.4867	0.0155	0.5022		1,917.5049	1,917.5049	0.2401	0.1499	1,968.1815
Total	**4.8339**	**15.2312**	**22.4362**	**0.0550**	**2.7047**	**0.0584**	**2.7630**	**0.7419**	**0.0552**	**0.7971**		**5,728.7406**	**5,728.7406**	**0.2794**	**0.7311**	**5,953.5775**

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8836**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.6400e-003	0.1044	1.4000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.7925	13.7925	1.8300e-003	1.1000e-003	14.1671
Total	**0.0319**	**9.6400e-003**	**0.1044**	**1.4000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.7925**	**13.7925**	**1.8300e-003**	**1.1000e-003**	**14.1671**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8836**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.6400e-003	0.1044	1.4000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.7925	13.7925	1.8300e-003	1.1000e-003	14.1671
Total	**0.0319**	**9.6400e-003**	**0.1044**	**1.4000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.7925**	**13.7925**	**1.8300e-003**	**1.1000e-003**	**14.1671**

3.3 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	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8106**	**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**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0293	8.7700e-003	0.0983	1.3000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.3222	13.3222	1.6700e-003	1.0400e-003	13.6743
Total	**0.0293**	**8.7700e-003**	**0.0983**	**1.3000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.3222**	**13.3222**	**1.6700e-003**	**1.0400e-003**	**13.6743**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8106**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0293	8.7700e-003	0.0983	1.3000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.3222	13.3222	1.6700e-003	1.0400e-003	13.6743
Total	**0.0293**	**8.7700e-003**	**0.0983**	**1.3000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.3222**	**13.3222**	**1.6700e-003**	**1.0400e-003**	**13.6743**

3.4 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	45.4962					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
Total	**45.6770**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9172	0.2775	3.0075	3.9300e-003	0.3653	3.5400e-003	0.3688	0.0974	3.2600e-003	0.1007		397.2225	397.2225	0.0527	0.0318	408.0115
Total	**0.9172**	**0.2775**	**3.0075**	**3.9300e-003**	**0.3653**	**3.5400e-003**	**0.3688**	**0.0974**	**3.2600e-003**	**0.1007**		**397.2225**	**397.2225**	**0.0527**	**0.0318**	**408.0115**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	45.4962					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
Total	**45.6770**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9172	0.2775	3.0075	3.9300e-003	0.3653	3.5400e-003	0.3688	0.0974	3.2600e-003	0.1007		397.2225	397.2225	0.0527	0.0318	408.0115
Total	**0.9172**	**0.2775**	**3.0075**	**3.9300e-003**	**0.3653**	**3.5400e-003**	**0.3688**	**0.0974**	**3.2600e-003**	**0.1007**		**397.2225**	**397.2225**	**0.0527**	**0.0318**	**408.0115**

3.4 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	45.4962					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
Total	**45.6671**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8426	0.2526	2.8317	3.8000e-003	0.3653	3.3700e-003	0.3686	0.0974	3.1000e-003	0.1005		383.6786	383.6786	0.0481	0.0300	393.8186
Total	**0.8426**	**0.2526**	**2.8317**	**3.8000e-003**	**0.3653**	**3.3700e-003**	**0.3686**	**0.0974**	**3.1000e-003**	**0.1005**		**383.6786**	**383.6786**	**0.0481**	**0.0300**	**393.8186**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	45.4962					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
Total	**45.6671**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8426	0.2526	2.8317	3.8000e-003	0.3653	3.3700e-003	0.3686	0.0974	3.1000e-003	0.1005		383.6786	383.6786	0.0481	0.0300	393.8186
Total	**0.8426**	**0.2526**	**2.8317**	**3.8000e-003**	**0.3653**	**3.3700e-003**	**0.3686**	**0.0974**	**3.1000e-003**	**0.1005**		**383.6786**	**383.6786**	**0.0481**	**0.0300**	**393.8186**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare 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	0.0000	0.0000	0.0000	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

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					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare 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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Unmitigated	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522

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
Landscaping	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**		**0.4522**

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
Landscaping	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**		**0.4522**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,864.70	1000sqft	42.81	1,864,700.00	0
Parking Lot	75.19	Acre	75.19	3,275,276.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	932350	0
tblAreaCoating	Area_Nonresidential_Interior	2797050	0
tblAreaCoating	Area_Parking	196517	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	3,100.00	262.00
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	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	8.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	1,752.82	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	431,211,875.00	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					
2024	69.3747	187.1537	238.3030	0.4039	3.0826	7.8671	10.9497	0.8426	7.3941	8.2367	0.0000	38,881.7237	38,881.7237	8.3579	0.8125	39,332.7998
2025	67.7240	174.3397	236.0476	0.4026	3.0826	6.7890	9.8716	0.8426	6.3807	7.2234	0.0000	38,744.5683	38,744.5683	8.2793	0.7888	39,186.6220
Maximum	**69.3747**	**187.1537**	**238.3030**	**0.4039**	**3.0826**	**7.8671**	**10.9497**	**0.8426**	**7.3941**	**8.2367**	**0.0000**	**38,881.7237**	**38,881.7237**	**8.3579**	**0.8125**	**39,332.7998**

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					
2024	69.3747	187.1537	238.3030	0.4039	3.0826	7.8671	10.9497	0.8426	7.3941	8.2367	0.0000	38,881.7237	38,881.7237	8.3579	0.8125	39,332.7998
2025	67.7240	174.3397	236.0476	0.4026	3.0826	6.7890	9.8716	0.8426	6.3807	7.2234	0.0000	38,744.5683	38,744.5683	8.2793	0.7888	39,186.6220
Maximum	**69.3747**	**187.1537**	**238.3030**	**0.4039**	**3.0826**	**7.8671**	**10.9497**	**0.8426**	**7.3941**	**8.2367**	**0.0000**	**38,881.7237**	**38,881.7237**	**8.3579**	**0.8125**	**39,332.7998**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Winter

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	N20	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

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
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
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**	**0.0000**	**7.0000e-004**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**	**0.0000**	**0.4522**

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
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
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**	**0.0000**	**7.0000e-004**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**	**0.0000**	**0.4522**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Winter

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	N20	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	Building Construction	Building Construction	3/14/2024	3/14/2025	5	262	
2	Paving	Paving	3/14/2024	1/15/2025	5	220	
3	Architectural Coating	Architectural Coating	5/10/2024	3/13/2025	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 75.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,797,050; Non-Residential Outdoor: 932,350; Striped Parking Area: 196,517 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	12	6.90	231	0.29
Building Construction	Forklifts	32	8.90	89	0.20
Building Construction	Generator Sets	12	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	32	7.80	97	0.37
Building Construction	Welders	12	7.90	46	0.45
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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	100	2,159.00	842.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	432.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	17.4501	159.4230	191.8101	0.3196		7.2738	7.2738		6.8418	6.8418		30,310.2465	30,310.2465	7.1697		30,489.4892
Total	**17.4501**	**159.4230**	**191.8101**	**0.3196**		**7.2738**	**7.2738**		**6.8418**	**6.8418**		**30,310.2465**	**30,310.2465**	**7.1697**		**30,489.4892**

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5665	15.0270	8.8075	0.0370	0.8791	0.0425	0.9216	0.2551	0.0406	0.2958		3,917.0481	3,917.0481	0.0378	0.5986	4,096.3862
Worker	3.1461	1.6241	17.6047	0.0178	1.8255	0.0177	1.8433	0.4867	0.0163	0.5030		1,794.0030	1,794.0030	0.3485	0.1772	1,855.5171
Total	**3.7126**	**16.6511**	**26.4122**	**0.0548**	**2.7046**	**0.0602**	**2.7648**	**0.7419**	**0.0569**	**0.7988**		**5,711.0511**	**5,711.0511**	**0.3863**	**0.7758**	**5,951.9032**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	17.4501	159.4230	191.8101	0.3196		7.2738	7.2738		6.8418	6.8418	0.0000	30,310.2465	30,310.2465	7.1697		30,489.4892
Total	**17.4501**	**159.4230**	**191.8101**	**0.3196**		**7.2738**	**7.2738**		**6.8418**	**6.8418**	**0.0000**	**30,310.2465**	**30,310.2465**	**7.1697**		**30,489.4892**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5665	15.0270	8.8075	0.0370	0.8791	0.0425	0.9216	0.2551	0.0406	0.2958		3,917.0481	3,917.0481	0.0378	0.5986	4,096.3862
Worker	3.1461	1.6241	17.6047	0.0178	1.8255	0.0177	1.8433	0.4867	0.0163	0.5030		1,794.0030	1,794.0030	0.3485	0.1772	1,855.5171
Total	**3.7126**	**16.6511**	**26.4122**	**0.0548**	**2.7046**	**0.0602**	**2.7648**	**0.7419**	**0.0569**	**0.7988**		**5,711.0511**	**5,711.0511**	**0.3863**	**0.7758**	**5,951.9032**

3.2 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	16.2145	147.8725	190.8364	0.3198		6.2563	6.2563		5.8850	5.8850		30,319.4625	30,319.4625	7.1294		30,497.6975
Total	**16.2145**	**147.8725**	**190.8364**	**0.3198**		**6.2563**	**6.2563**		**5.8850**	**5.8850**		**30,319.4625**	**30,319.4625**	**7.1294**		**30,497.6975**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5578	14.9563	8.6981	0.0364	0.8791	0.0424	0.9215	0.2551	0.0405	0.2957		3,844.8502	3,844.8502	0.0370	0.5870	4,020.7106
Worker	2.8782	1.4779	16.6739	0.0172	1.8255	0.0168	1.8424	0.4867	0.0155	0.5022		1,733.2168	1,733.2168	0.3180	0.1672	1,790.9877
Total	**3.4360**	**16.4341**	**25.3719**	**0.0535**	**2.7047**	**0.0592**	**2.7638**	**0.7419**	**0.0560**	**0.7979**		**5,578.0669**	**5,578.0669**	**0.3550**	**0.7542**	**5,811.6982**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	16.2145	147.8725	190.8364	0.3198		6.2563	6.2563		5.8850	5.8850	0.0000	30,319.4624	30,319.4624	7.1294		30,497.6975
Total	**16.2145**	**147.8725**	**190.8364**	**0.3198**		**6.2563**	**6.2563**		**5.8850**	**5.8850**	**0.0000**	**30,319.4624**	**30,319.4624**	**7.1294**		**30,497.6975**

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5578	14.9563	8.6981	0.0364	0.8791	0.0424	0.9215	0.2551	0.0405	0.2957		3,844.8502	3,844.8502	0.0370	0.5870	4,020.7106
Worker	2.8782	1.4779	16.6739	0.0172	1.8255	0.0168	1.8424	0.4867	0.0155	0.5022		1,733.2168	1,733.2168	0.3180	0.1672	1,790.9877
Total	**3.4360**	**16.4341**	**25.3719**	**0.0535**	**2.7047**	**0.0592**	**2.7638**	**0.7419**	**0.0560**	**0.7979**		**5,578.0669**	**5,578.0669**	**0.3550**	**0.7542**	**5,811.6982**

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8836**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0113	0.1223	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.4641	12.4641	2.4200e-003	1.2300e-003	12.8915
Total	**0.0219**	**0.0113**	**0.1223**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.4641**	**12.4641**	**2.4200e-003**	**1.2300e-003**	**12.8915**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8836**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0113	0.1223	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.4641	12.4641	2.4200e-003	1.2300e-003	12.8915
Total	**0.0219**	**0.0113**	**0.1223**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.4641**	**12.4641**	**2.4200e-003**	**1.2300e-003**	**12.8915**

3.3 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	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8106**	**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**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0103	0.1158	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.0418	12.0418	2.2100e-003	1.1600e-003	12.4432
Total	**0.0200**	**0.0103**	**0.1158**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.0418**	**12.0418**	**2.2100e-003**	**1.1600e-003**	**12.4432**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8106**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0103	0.1158	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.0418	12.0418	2.2100e-003	1.1600e-003	12.4432
Total	**0.0200**	**0.0103**	**0.1158**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.0418**	**12.0418**	**2.2100e-003**	**1.1600e-003**	**12.4432**

3.4 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	45.4962					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
Total	**45.6770**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.6295	0.3250	3.5226	3.5500e-003	0.3653	3.5400e-003	0.3688	0.0974	3.2600e-003	0.1007		358.9668	358.9668	0.0697	0.0355	371.2753
Total	**0.6295**	**0.3250**	**3.5226**	**3.5500e-003**	**0.3653**	**3.5400e-003**	**0.3688**	**0.0974**	**3.2600e-003**	**0.1007**		**358.9668**	**358.9668**	**0.0697**	**0.0355**	**371.2753**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	45.4962					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
Total	**45.6770**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.6295	0.3250	3.5226	3.5500e-003	0.3653	3.5400e-003	0.3688	0.0974	3.2600e-003	0.1007		358.9668	358.9668	0.0697	0.0355	371.2753
Total	**0.6295**	**0.3250**	**3.5226**	**3.5500e-003**	**0.3653**	**3.5400e-003**	**0.3688**	**0.0974**	**3.2600e-003**	**0.1007**		**358.9668**	**358.9668**	**0.0697**	**0.0355**	**371.2753**

3.4 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	45.4962					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
Total	**45.6671**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5759	0.2957	3.3363	3.4300e-003	0.3653	3.3700e-003	0.3686	0.0974	3.1000e-003	0.1005		346.8039	346.8039	0.0636	0.0335	358.3635
Total	**0.5759**	**0.2957**	**3.3363**	**3.4300e-003**	**0.3653**	**3.3700e-003**	**0.3686**	**0.0974**	**3.1000e-003**	**0.1005**		**346.8039**	**346.8039**	**0.0636**	**0.0335**	**358.3635**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	45.4962					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
Total	**45.6671**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5759	0.2957	3.3363	3.4300e-003	0.3653	3.3700e-003	0.3686	0.0974	3.1000e-003	0.1005		346.8039	346.8039	0.0636	0.0335	358.3635
Total	**0.5759**	**0.2957**	**3.3363**	**3.4300e-003**	**0.3653**	**3.3700e-003**	**0.3686**	**0.0974**	**3.1000e-003**	**0.1005**		**346.8039**	**346.8039**	**0.0636**	**0.0335**	**358.3635**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	0.0000	0.0000	0.0000	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Unmitigated	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522

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
Landscaping	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**		**0.4522**

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
Landscaping	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**		**0.4522**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,110.00	261.00
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00
tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	0.00

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2025	11.0635	69.9046	95.3413	0.1679	1.5250	2.6858	4.2108	0.4182	2.5180	2.9362	0.0000	16,251.1700	16,251.1700	3.4157	0.4099	16,458.7220
2026	72.3263	62.4846	83.5079	0.1492	1.7161	2.3198	4.0359	0.4692	2.1853	2.6545	0.0000	14,442.5510	14,442.5510	2.7285	0.4138	14,634.0851
Maximum	**72.3263**	**69.9046**	**95.3413**	**0.1679**	**1.7161**	**2.6858**	**4.2108**	**0.4692**	**2.5180**	**2.9362**	**0.0000**	**16,251.1700**	**16,251.1700**	**3.4157**	**0.4138**	**16,458.7220**

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					
2025	11.0635	69.9046	95.3413	0.1679	1.5250	2.6858	4.2108	0.4182	2.5180	2.9362	0.0000	16,251.1700	16,251.1700	3.4157	0.4099	16,458.7220
2026	72.3263	62.4846	83.5079	0.1492	1.7161	2.3198	4.0359	0.4692	2.1853	2.6545	0.0000	14,442.5510	14,442.5510	2.7285	0.4138	14,634.0851
Maximum	**72.3263**	**69.9046**	**95.3413**	**0.1679**	**1.7161**	**2.6858**	**4.2108**	**0.4692**	**2.5180**	**2.9362**	**0.0000**	**16,251.1700**	**16,251.1700**	**3.4157**	**0.4138**	**16,458.7220**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare 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	N20	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

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

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	N20	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	Building Construction	Building Construction	9/12/2025	9/12/2026	5	261	
2	Paving	Paving	9/12/2025	12/25/2025	5	75	
3	Architectural Coating	Architectural Coating	6/1/2026	9/11/2026	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	241.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3484	7.8139	4.6342	0.0202	0.4918	0.0233	0.5150	0.1427	0.0222	0.1650		2,131.9382	2,131.9382	0.0220	0.3251	2,229.3605
Worker	2.3542	0.7058	7.9116	0.0106	1.0206	9.4000e-003	1.0300	0.2721	8.6500e-003	0.2808		1,071.9909	1,071.9909	0.1343	0.0838	1,100.3219
Total	**2.7026**	**8.5196**	**12.5458**	**0.0308**	**1.5123**	**0.0327**	**1.5450**	**0.4148**	**0.0309**	**0.4457**		**3,203.9292**	**3,203.9292**	**0.1562**	**0.4089**	**3,329.6824**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3484	7.8139	4.6342	0.0202	0.4918	0.0233	0.5150	0.1427	0.0222	0.1650		2,131.9382	2,131.9382	0.0220	0.3251	2,229.3605
Worker	2.3542	0.7058	7.9116	0.0106	1.0206	9.4000e-003	1.0300	0.2721	8.6500e-003	0.2808		1,071.9909	1,071.9909	0.1343	0.0838	1,100.3219
Total	**2.7026**	**8.5196**	**12.5458**	**0.0308**	**1.5123**	**0.0327**	**1.5450**	**0.4148**	**0.0309**	**0.4457**		**3,203.9292**	**3,203.9292**	**0.1562**	**0.4089**	**3,329.6824**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3435	7.7692	4.5847	0.0198	0.4918	0.0231	0.5149	0.1427	0.0221	0.1648		2,090.8291	2,090.8291	0.0216	0.3185	2,186.2803
Worker	2.1697	0.6462	7.4978	0.0103	1.0206	8.9100e-003	1.0295	0.2721	8.2000e-003	0.2803		1,036.2031	1,036.2031	0.1229	0.0795	1,062.9563
Total	**2.5132**	**8.4155**	**12.0824**	**0.0300**	**1.5124**	**0.0320**	**1.5443**	**0.4148**	**0.0303**	**0.4451**		**3,127.0322**	**3,127.0322**	**0.1444**	**0.3980**	**3,249.2367**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3435	7.7692	4.5847	0.0198	0.4918	0.0231	0.5149	0.1427	0.0221	0.1648		2,090.8291	2,090.8291	0.0216	0.3185	2,186.2803
Worker	2.1697	0.6462	7.4978	0.0103	1.0206	8.9100e-003	1.0295	0.2721	8.2000e-003	0.2803		1,036.2031	1,036.2031	0.1229	0.0795	1,062.9563
Total	**2.5132**	**8.4155**	**12.0824**	**0.0300**	**1.5124**	**0.0320**	**1.5443**	**0.4148**	**0.0303**	**0.4451**		**3,127.0322**	**3,127.0322**	**0.1444**	**0.3980**	**3,249.2367**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.5444**	**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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0293	8.7700e-003	0.0983	1.3000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.3222	13.3222	1.6700e-003	1.0400e-003	13.6743
Total	**0.0293**	**8.7700e-003**	**0.0983**	**1.3000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.3222**	**13.3222**	**1.6700e-003**	**1.0400e-003**	**13.6743**

3.3 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.5444**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0293	8.7700e-003	0.0983	1.3000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.3222	13.3222	1.6700e-003	1.0400e-003	13.6743
Total	**0.0293**	**8.7700e-003**	**0.0983**	**1.3000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.3222**	**13.3222**	**1.6700e-003**	**1.0400e-003**	**13.6743**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	63.4219					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
Total	**63.5928**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4332	0.1290	1.4971	2.0500e-003	0.2038	1.7800e-003	0.2056	0.0543	1.6400e-003	0.0560		206.8972	206.8972	0.0245	0.0159	212.2390
Total	**0.4332**	**0.1290**	**1.4971**	**2.0500e-003**	**0.2038**	**1.7800e-003**	**0.2056**	**0.0543**	**1.6400e-003**	**0.0560**		**206.8972**	**206.8972**	**0.0245**	**0.0159**	**212.2390**

3.4 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	63.4219					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
Total	**63.5928**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4332	0.1290	1.4971	2.0500e-003	0.2038	1.7800e-003	0.2056	0.0543	1.6400e-003	0.0560		206.8972	206.8972	0.0245	0.0159	212.2390
Total	**0.4332**	**0.1290**	**1.4971**	**2.0500e-003**	**0.2038**	**1.7800e-003**	**0.2056**	**0.0543**	**1.6400e-003**	**0.0560**		**206.8972**	**206.8972**	**0.0245**	**0.0159**	**212.2390**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare 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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Fast Food Restaurant with Drive Thru	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Industrial Park	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Parking Lot	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Unrefrigerated Warehouse-No Rail	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare 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					
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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**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

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Unmitigated	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,110.00	261.00
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00
tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	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

tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	0.00

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2025	10.2727	70.5789	97.0002	0.1670	1.5250	2.6862	4.2113	0.4182	2.5184	2.9366	0.0000	16,165.6658	16,165.6658	3.4585	0.4230	16,378.1842
2026	71.4597	63.1675	85.3774	0.1482	1.7161	2.3202	4.0363	0.4692	2.1857	2.6549	0.0000	14,341.8291	14,341.8291	2.7750	0.4281	14,538.7661
Maximum	**71.4597**	**70.5789**	**97.0002**	**0.1670**	**1.7161**	**2.6862**	**4.2113**	**0.4692**	**2.5184**	**2.9366**	**0.0000**	**16,165.6658**	**16,165.6658**	**3.4585**	**0.4281**	**16,378.1842**

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					
2025	10.2727	70.5789	97.0002	0.1670	1.5250	2.6862	4.2113	0.4182	2.5184	2.9366	0.0000	16,165.6658	16,165.6658	3.4585	0.4230	16,378.1841
2026	71.4597	63.1675	85.3774	0.1482	1.7161	2.3202	4.0363	0.4692	2.1857	2.6549	0.0000	14,341.8291	14,341.8291	2.7750	0.4281	14,538.7661
Maximum	**71.4597**	**70.5789**	**97.0002**	**0.1670**	**1.7161**	**2.6862**	**4.2113**	**0.4692**	**2.5184**	**2.9366**	**0.0000**	**16,165.6658**	**16,165.6658**	**3.4585**	**0.4281**	**16,378.1841**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

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	N20	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

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

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	N20	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	Building Construction	Building Construction	9/12/2025	9/12/2026	5	261	
2	Paving	Paving	9/12/2025	12/25/2025	5	75	
3	Architectural Coating	Architectural Coating	6/1/2026	9/11/2026	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	241.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3120	8.3663	4.8655	0.0203	0.4918	0.0237	0.5155	0.1427	0.0227	0.1654		2,150.7416	2,150.7416	0.0207	0.3284	2,249.1148
Worker	1.6091	0.8262	9.3216	9.5900e-003	1.0206	9.4000e-003	1.0300	0.2721	8.6500e-003	0.2808		968.9637	968.9637	0.1778	0.0935	1,001.2608
Total	**1.9211**	**9.1925**	**14.1872**	**0.0299**	**1.5123**	**0.0331**	**1.5454**	**0.4148**	**0.0313**	**0.4461**		**3,119.7053**	**3,119.7053**	**0.1985**	**0.4219**	**3,250.3756**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3120	8.3663	4.8655	0.0203	0.4918	0.0237	0.5155	0.1427	0.0227	0.1654		2,150.7416	2,150.7416	0.0207	0.3284	2,249.1148
Worker	1.6091	0.8262	9.3216	9.5900e-003	1.0206	9.4000e-003	1.0300	0.2721	8.6500e-003	0.2808		968.9637	968.9637	0.1778	0.0935	1,001.2608
Total	**1.9211**	**9.1925**	**14.1872**	**0.0299**	**1.5123**	**0.0331**	**1.5454**	**0.4148**	**0.0313**	**0.4461**		**3,119.7053**	**3,119.7053**	**0.1985**	**0.4219**	**3,250.3756**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3074	8.3201	4.8113	0.0199	0.4918	0.0235	0.5153	0.1427	0.0225	0.1652		2,109.4048	2,109.4048	0.0203	0.3218	2,205.7932
Worker	1.4773	0.7563	8.8671	9.2700e-003	1.0206	8.9100e-003	1.0295	0.2721	8.2000e-003	0.2803		936.7609	936.7609	0.1627	0.0886	967.2367
Total	**1.7848**	**9.0764**	**13.6785**	**0.0292**	**1.5124**	**0.0324**	**1.5448**	**0.4148**	**0.0307**	**0.4455**		**3,046.1658**	**3,046.1658**	**0.1830**	**0.4104**	**3,173.0299**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3074	8.3201	4.8113	0.0199	0.4918	0.0235	0.5153	0.1427	0.0225	0.1652		2,109.4048	2,109.4048	0.0203	0.3218	2,205.7932
Worker	1.4773	0.7563	8.8671	9.2700e-003	1.0206	8.9100e-003	1.0295	0.2721	8.2000e-003	0.2803		936.7609	936.7609	0.1627	0.0886	967.2367
Total	**1.7848**	**9.0764**	**13.6785**	**0.0292**	**1.5124**	**0.0324**	**1.5448**	**0.4148**	**0.0307**	**0.4455**		**3,046.1658**	**3,046.1658**	**0.1830**	**0.4104**	**3,173.0299**

3.3 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	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.5444**	**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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0103	0.1158	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.0418	12.0418	2.2100e-003	1.1600e-003	12.4432
Total	**0.0200**	**0.0103**	**0.1158**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.0418**	**12.0418**	**2.2100e-003**	**1.1600e-003**	**12.4432**

3.3 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.5444**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0103	0.1158	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.0418	12.0418	2.2100e-003	1.1600e-003	12.4432
Total	**0.0200**	**0.0103**	**0.1158**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.0418**	**12.0418**	**2.2100e-003**	**1.1600e-003**	**12.4432**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	63.4219					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
Total	**63.5928**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2950	0.1510	1.7705	1.8500e-003	0.2038	1.7800e-003	0.2056	0.0543	1.6400e-003	0.0560		187.0418	187.0418	0.0325	0.0177	193.1268
Total	**0.2950**	**0.1510**	**1.7705**	**1.8500e-003**	**0.2038**	**1.7800e-003**	**0.2056**	**0.0543**	**1.6400e-003**	**0.0560**		**187.0418**	**187.0418**	**0.0325**	**0.0177**	**193.1268**

3.4 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	63.4219					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
Total	**63.5928**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2950	0.1510	1.7705	1.8500e-003	0.2038	1.7800e-003	0.2056	0.0543	1.6400e-003	0.0560		187.0418	187.0418	0.0325	0.0177	193.1268
Total	**0.2950**	**0.1510**	**1.7705**	**1.8500e-003**	**0.2038**	**1.7800e-003**	**0.2056**	**0.0543**	**1.6400e-003**	**0.0560**		**187.0418**	**187.0418**	**0.0325**	**0.0177**	**193.1268**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Fast Food Restaurant with Drive Thru	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Industrial Park	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Parking Lot	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Unrefrigerated Warehouse-No Rail	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2 - Tulare County, Winter

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					
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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**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

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Unmitigated	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

Grading -

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,550.00	261.00
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	0.00

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	55.3759	92.9646	124.7243	0.2196	2.1587	3.5850	5.4994	0.5901	3.3639	3.8888	0.0000	21,213.4442	21,213.4442	4.4474	0.5062	21,470.0640
2028	55.1511	85.5653	113.1404	0.2013	2.1587	3.2190	5.3778	0.5902	3.0313	3.6214	0.0000	19,435.0850	19,435.0850	3.7627	0.4933	19,676.1452
Maximum	**55.3759**	**92.9646**	**124.7243**	**0.2196**	**2.1587**	**3.5850**	**5.4994**	**0.5902**	**3.3639**	**3.8888**	**0.0000**	**21,213.4442**	**21,213.4442**	**4.4474**	**0.5062**	**21,470.0640**

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	55.3759	92.9646	124.7243	0.2196	2.1587	3.5850	5.4994	0.5901	3.3639	3.8888	0.0000	21,213.4442	21,213.4442	4.4474	0.5062	21,470.0640
2028	55.1511	85.5653	113.1404	0.2013	2.1587	3.2190	5.3778	0.5902	3.0313	3.6214	0.0000	19,435.0850	19,435.0850	3.7627	0.4933	19,676.1452
Maximum	**55.3759**	**92.9646**	**124.7243**	**0.2196**	**2.1587**	**3.5850**	**5.4994**	**0.5902**	**3.3639**	**3.8888**	**0.0000**	**21,213.4442**	**21,213.4442**	**4.4474**	**0.5062**	**21,470.0640**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare 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	N20	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

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

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	N20	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	Building Construction	Building Construction	3/12/2027	3/12/2028	5	261	
2	Paving	Paving	3/12/2027	8/12/2027	5	110	
3	Architectural Coating	Architectural Coating	10/1/2027	3/10/2028	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	52	1,518.00	592.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	304.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**		**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1181**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4267	9.7097	5.7117	0.0243	0.6181	0.0288	0.6469	0.1794	0.0275	0.2069		2,574.0983	2,574.0983	0.0267	0.3918	2,691.5186
Worker	2.5227	0.7501	8.9563	0.0125	1.2835	0.0106	1.2941	0.3422	9.7300e-003	0.3520		1,264.0794	1,264.0794	0.1421	0.0953	1,296.0329
Total	**2.9494**	**10.4598**	**14.6680**	**0.0369**	**1.9017**	**0.0393**	**1.9410**	**0.5216**	**0.0372**	**0.5588**		**3,838.1777**	**3,838.1777**	**0.1688**	**0.4871**	**3,987.5515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**	**0.0000**	**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1180**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4267	9.7097	5.7117	0.0243	0.6181	0.0288	0.6469	0.1794	0.0275	0.2069		2,574.0983	2,574.0983	0.0267	0.3918	2,691.5186
Worker	2.5227	0.7501	8.9563	0.0125	1.2835	0.0106	1.2941	0.3422	9.7300e-003	0.3520		1,264.0794	1,264.0794	0.1421	0.0953	1,296.0329
Total	**2.9494**	**10.4598**	**14.6680**	**0.0369**	**1.9017**	**0.0393**	**1.9410**	**0.5216**	**0.0372**	**0.5588**		**3,838.1777**	**3,838.1777**	**0.1688**	**0.4871**	**3,987.5515**

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**		**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1181**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4226	9.6677	5.6719	0.0239	0.6181	0.0285	0.6467	0.1794	0.0273	0.2067		2,522.5863	2,522.5863	0.0264	0.3836	2,637.5667
Worker	2.3389	0.6968	8.5560	0.0122	1.2835	9.9400e-003	1.2935	0.3422	9.1400e-003	0.3514		1,228.9136	1,228.9136	0.1312	0.0914	1,259.4139
Total	**2.7615**	**10.3645**	**14.2279**	**0.0360**	**1.9017**	**0.0385**	**1.9402**	**0.5216**	**0.0364**	**0.5581**		**3,751.4999**	**3,751.4999**	**0.1576**	**0.4750**	**3,896.9807**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**	**0.0000**	**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1180**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4226	9.6677	5.6719	0.0239	0.6181	0.0285	0.6467	0.1794	0.0273	0.2067		2,522.5863	2,522.5863	0.0264	0.3836	2,637.5667
Worker	2.3389	0.6968	8.5560	0.0122	1.2835	9.9400e-003	1.2935	0.3422	9.1400e-003	0.3514		1,228.9136	1,228.9136	0.1312	0.0914	1,259.4139
Total	**2.7615**	**10.3645**	**14.2279**	**0.0360**	**1.9017**	**0.0385**	**1.9402**	**0.5216**	**0.0364**	**0.5581**		**3,751.4999**	**3,751.4999**	**0.1576**	**0.4750**	**3,896.9807**

3.3 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
Total	**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**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0249	7.4100e-003	0.0885	1.2000e-004	0.0127	1.0000e-004	0.0128	3.3800e-003	1.0000e-004	3.4800e-003		12.4909	12.4909	1.4000e-003	9.4000e-004	12.8067
Total	**0.0249**	**7.4100e-003**	**0.0885**	**1.2000e-004**	**0.0127**	**1.0000e-004**	**0.0128**	**3.3800e-003**	**1.0000e-004**	**3.4800e-003**		**12.4909**	**12.4909**	**1.4000e-003**	**9.4000e-004**	**12.8067**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9152**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0249	7.4100e-003	0.0885	1.2000e-004	0.0127	1.0000e-004	0.0128	3.3800e-003	1.0000e-004	3.4800e-003		12.4909	12.4909	1.4000e-003	9.4000e-004	12.8067
Total	**0.0249**	**7.4100e-003**	**0.0885**	**1.2000e-004**	**0.0127**	**1.0000e-004**	**0.0128**	**3.3800e-003**	**1.0000e-004**	**3.4800e-003**		**12.4909**	**12.4909**	**1.4000e-003**	**9.4000e-004**	**12.8067**

3.4 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	43.6453					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
Total	**43.8162**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5052	0.1502	1.7936	2.5000e-003	0.2571	2.1200e-003	0.2592	0.0685	1.9500e-003	0.0705		253.1490	253.1490	0.0285	0.0191	259.5481
Total	**0.5052**	**0.1502**	**1.7936**	**2.5000e-003**	**0.2571**	**2.1200e-003**	**0.2592**	**0.0685**	**1.9500e-003**	**0.0705**		**253.1490**	**253.1490**	**0.0285**	**0.0191**	**259.5481**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	43.6453					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
Total	**43.8162**	**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**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5052	0.1502	1.7936	2.5000e-003	0.2571	2.1200e-003	0.2592	0.0685	1.9500e-003	0.0705		253.1490	253.1490	0.0285	0.0191	259.5481
Total	**0.5052**	**0.1502**	**1.7936**	**2.5000e-003**	**0.2571**	**2.1200e-003**	**0.2592**	**0.0685**	**1.9500e-003**	**0.0705**		**253.1490**	**253.1490**	**0.0285**	**0.0191**	**259.5481**

3.4 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	43.6453					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
Total	**43.8162**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4684	0.1396	1.7135	2.4300e-003	0.2571	1.9900e-003	0.2590	0.0685	1.8300e-003	0.0704		246.1066	246.1066	0.0263	0.0183	252.2147
Total	**0.4684**	**0.1396**	**1.7135**	**2.4300e-003**	**0.2571**	**1.9900e-003**	**0.2590**	**0.0685**	**1.8300e-003**	**0.0704**		**246.1066**	**246.1066**	**0.0263**	**0.0183**	**252.2147**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	43.6453					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
Total	**43.8162**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4684	0.1396	1.7135	2.4300e-003	0.2571	1.9900e-003	0.2590	0.0685	1.8300e-003	0.0704		246.1066	246.1066	0.0263	0.0183	252.2147
Total	**0.4684**	**0.1396**	**1.7135**	**2.4300e-003**	**0.2571**	**1.9900e-003**	**0.2590**	**0.0685**	**1.8300e-003**	**0.0704**		**246.1066**	**246.1066**	**0.0263**	**0.0183**	**252.2147**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare 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	0.0000	0.0000	0.0000	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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
City Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Industrial Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Other Non-Asphalt Surfaces	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Unrefrigerated Warehouse-No Rail	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033

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

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare 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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**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

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Unmitigated	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

Grading -

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,550.00	261.00
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	0.00

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	54.3571	93.7839	126.6970	0.2186	2.1587	3.5855	5.4999	0.5901	3.3643	3.8893	0.0000	21,114.0916	21,114.0916	4.4923	0.5234	21,376.3344
2028	54.1964	86.3966	115.3778	0.2001	2.1587	3.2195	5.3782	0.5902	3.0317	3.6219	0.0000	19,316.4491	19,316.4491	3.8121	0.5099	19,563.6841
Maximum	**54.3571**	**93.7839**	**126.6970**	**0.2186**	**2.1587**	**3.5855**	**5.4999**	**0.5902**	**3.3643**	**3.8893**	**0.0000**	**21,114.0916**	**21,114.0916**	**4.4923**	**0.5234**	**21,376.3344**

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	54.3571	93.7839	126.6970	0.2186	2.1587	3.5855	5.4999	0.5901	3.3643	3.8893	0.0000	21,114.0916	21,114.0916	4.4923	0.5234	21,376.3344
2028	54.1964	86.3966	115.3778	0.2001	2.1587	3.2195	5.3782	0.5902	3.0317	3.6219	0.0000	19,316.4491	19,316.4491	3.8121	0.5099	19,563.6841
Maximum	**54.3571**	**93.7839**	**126.6970**	**0.2186**	**2.1587**	**3.5855**	**5.4999**	**0.5902**	**3.3643**	**3.8893**	**0.0000**	**21,114.0916**	**21,114.0916**	**4.4923**	**0.5234**	**21,376.3344**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

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	N20	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

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

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	N20	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	Building Construction	Building Construction	3/12/2027	3/12/2028	5	261	
2	Paving	Paving	3/12/2027	8/12/2027	5	110	
3	Architectural Coating	Architectural Coating	10/1/2027	3/10/2028	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	52	1,518.00	592.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	304.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**		**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1181**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3816	10.4001	5.9915	0.0246	0.6181	0.0293	0.6474	0.1794	0.0280	0.2074		2,597.1459	2,597.1459	0.0251	0.3958	2,715.7268
Worker	1.7115	0.8777	10.6326	0.0113	1.2835	0.0106	1.2941	0.3422	9.7300e-003	0.3520		1,142.8769	1,142.8769	0.1881	0.1063	1,179.2491
Total	**2.0931**	**11.2778**	**16.6241**	**0.0359**	**1.9017**	**0.0398**	**1.9415**	**0.5216**	**0.0377**	**0.5593**		**3,740.0227**	**3,740.0227**	**0.2132**	**0.5021**	**3,894.9759**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**	**0.0000**	**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1180**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3816	10.4001	5.9915	0.0246	0.6181	0.0293	0.6474	0.1794	0.0280	0.2074		2,597.1459	2,597.1459	0.0251	0.3958	2,715.7268
Worker	1.7115	0.8777	10.6326	0.0113	1.2835	0.0106	1.2941	0.3422	9.7300e-003	0.3520		1,142.8769	1,142.8769	0.1881	0.1063	1,179.2491
Total	**2.0931**	**11.2778**	**16.6241**	**0.0359**	**1.9017**	**0.0398**	**1.9415**	**0.5216**	**0.0377**	**0.5593**		**3,740.0227**	**3,740.0227**	**0.2132**	**0.5021**	**3,894.9759**

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**		**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1181**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3778	10.3568	5.9481	0.0241	0.6181	0.0290	0.6472	0.1794	0.0278	0.2072		2,545.3029	2,545.3029	0.0248	0.3876	2,661.4266
Worker	1.5808	0.8153	10.1900	0.0110	1.2835	9.9400e-003	1.2935	0.3422	9.1400e-003	0.3514		1,111.1457	1,111.1457	0.1737	0.1019	1,145.8380
Total	**1.9586**	**11.1721**	**16.1381**	**0.0351**	**1.9017**	**0.0390**	**1.9406**	**0.5216**	**0.0369**	**0.5585**		**3,656.4487**	**3,656.4487**	**0.1985**	**0.4895**	**3,807.2646**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**	**0.0000**	**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1180**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3778	10.3568	5.9481	0.0241	0.6181	0.0290	0.6472	0.1794	0.0278	0.2072		2,545.3029	2,545.3029	0.0248	0.3876	2,661.4266
Worker	1.5808	0.8153	10.1900	0.0110	1.2835	9.9400e-003	1.2935	0.3422	9.1400e-003	0.3514		1,111.1457	1,111.1457	0.1737	0.1019	1,145.8380
Total	**1.9586**	**11.1721**	**16.1381**	**0.0351**	**1.9017**	**0.0390**	**1.9406**	**0.5216**	**0.0369**	**0.5585**		**3,656.4487**	**3,656.4487**	**0.1985**	**0.4895**	**3,807.2646**

3.3 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
Total	**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**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0169	8.6700e-003	0.1051	1.1000e-004	0.0127	1.0000e-004	0.0128	3.3800e-003	1.0000e-004	3.4800e-003		11.2933	11.2933	1.8600e-003	1.0500e-003	11.6527
Total	**0.0169**	**8.6700e-003**	**0.1051**	**1.1000e-004**	**0.0127**	**1.0000e-004**	**0.0128**	**3.3800e-003**	**1.0000e-004**	**3.4800e-003**		**11.2933**	**11.2933**	**1.8600e-003**	**1.0500e-003**	**11.6527**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9152**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0169	8.6700e-003	0.1051	1.1000e-004	0.0127	1.0000e-004	0.0128	3.3800e-003	1.0000e-004	3.4800e-003		11.2933	11.2933	1.8600e-003	1.0500e-003	11.6527
Total	**0.0169**	**8.6700e-003**	**0.1051**	**1.1000e-004**	**0.0127**	**1.0000e-004**	**0.0128**	**3.3800e-003**	**1.0000e-004**	**3.4800e-003**		**11.2933**	**11.2933**	**1.8600e-003**	**1.0500e-003**	**11.6527**

3.4 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	43.6453					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
Total	**43.8162**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3428	0.1758	2.1293	2.2600e-003	0.2571	2.1200e-003	0.2592	0.0685	1.9500e-003	0.0705		228.8765	228.8765	0.0377	0.0213	236.1606
Total	**0.3428**	**0.1758**	**2.1293**	**2.2600e-003**	**0.2571**	**2.1200e-003**	**0.2592**	**0.0685**	**1.9500e-003**	**0.0705**		**228.8765**	**228.8765**	**0.0377**	**0.0213**	**236.1606**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	43.6453					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
Total	**43.8162**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3428	0.1758	2.1293	2.2600e-003	0.2571	2.1200e-003	0.2592	0.0685	1.9500e-003	0.0705		228.8765	228.8765	0.0377	0.0213	236.1606
Total	**0.3428**	**0.1758**	**2.1293**	**2.2600e-003**	**0.2571**	**2.1200e-003**	**0.2592**	**0.0685**	**1.9500e-003**	**0.0705**		**228.8765**	**228.8765**	**0.0377**	**0.0213**	**236.1606**

3.4 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	43.6453					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
Total	**43.8162**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3166	0.1633	2.0407	2.2000e-003	0.2571	1.9900e-003	0.2590	0.0685	1.8300e-003	0.0704		222.5219	222.5219	0.0348	0.0204	229.4695
Total	**0.3166**	**0.1633**	**2.0407**	**2.2000e-003**	**0.2571**	**1.9900e-003**	**0.2590**	**0.0685**	**1.8300e-003**	**0.0704**		**222.5219**	**222.5219**	**0.0348**	**0.0204**	**229.4695**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	43.6453					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
Total	**43.8162**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3166	0.1633	2.0407	2.2000e-003	0.2571	1.9900e-003	0.2590	0.0685	1.8300e-003	0.0704		222.5219	222.5219	0.0348	0.0204	229.4695
Total	**0.3166**	**0.1633**	**2.0407**	**2.2000e-003**	**0.2571**	**1.9900e-003**	**0.2590**	**0.0685**	**1.8300e-003**	**0.0704**		**222.5219**	**222.5219**	**0.0348**	**0.0204**	**229.4695**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

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	0.0000	0.0000	0.0000	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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
City Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Industrial Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Other Non-Asphalt Surfaces	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Unrefrigerated Warehouse-No Rail	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033

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

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**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

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Unmitigated	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3 - Tulare County, Winter

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	240.00	Acre	240.00	10,454,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Trips and VMT - Note 10 - Construction

Demolition - Note 4

Grading - Note 4

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	30.00
tblGrading	MaterialImported	0.00	130,000.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	4.9749	48.0794	38.2755	0.0772	19.7200	2.1898	21.9098	10.1152	2.0235	12.1387	0.0000	7,466.8025	7,466.8025	2.2453	0.0353	7,523.7063
2025	2.9836	28.7921	27.0482	0.0642	9.2865	1.1337	10.4202	3.6726	1.0431	4.7157	0.0000	6,236.6001	6,236.6001	1.9479	0.0345	6,295.5785
2026	2.9802	28.7845	27.0384	0.0642	9.2865	1.1337	10.4202	3.6726	1.0431	4.7156	0.0000	6,231.2378	6,231.2378	1.9477	0.0337	6,289.9658
Maximum	**4.9749**	**48.0794**	**38.2755**	**0.0772**	**19.7200**	**2.1898**	**21.9098**	**10.1152**	**2.0235**	**12.1387**	**0.0000**	**7,466.8025**	**7,466.8025**	**2.2453**	**0.0353**	**7,523.7063**

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					
2024	4.9749	48.0794	38.2755	0.0772	8.8894	2.1898	11.0793	4.5560	2.0235	6.5794	0.0000	7,466.8025	7,466.8025	2.2453	0.0353	7,523.7063
2025	2.9836	28.7921	27.0482	0.0642	4.2072	1.1337	5.3409	1.6604	1.0431	2.7035	0.0000	6,236.6001	6,236.6001	1.9479	0.0345	6,295.5785
2026	2.9802	28.7845	27.0384	0.0642	4.2072	1.1337	5.3408	1.6604	1.0431	2.7034	0.0000	6,231.2378	6,231.2378	1.9477	0.0337	6,289.9658
Maximum	**4.9749**	**48.0794**	**38.2755**	**0.0772**	**8.8894**	**2.1898**	**11.0793**	**4.5560**	**2.0235**	**6.5794**	**0.0000**	**7,466.8025**	**7,466.8025**	**2.2453**	**0.0353**	**7,523.7063**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	54.81	0.00	49.10	54.89	0.00	44.43	0.00	0.00	0.00	0.00	0.00	0.00

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
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
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**	**0.0000**	**0.0559**

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
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
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**	**0.0000**	**0.0559**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare 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	N20	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	3/14/2024	4/24/2024	5	30	
2	Site Preparation	Site Preparation	3/14/2024	11/20/2024	5	180	
3	Grading	Grading	11/21/2024	9/2/2026	5	465	

Acres of Grading (Site Preparation Phase): 270

Acres of Grading (Grading Phase): 1395

Acres of Paving: 240

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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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	6	15.00	0.00	5.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	16,250.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					0.0350	0.0000	0.0350	5.2900e-003	0.0000	5.2900e-003			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**0.0350**	**0.9602**	**0.9951**	**5.2900e-003**	**0.8922**	**0.8975**		**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	lb/day										lb/day					
Hauling	2.1000e-004	4.0200e-003	2.8100e-003	1.0000e-005	1.6000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005		1.0264	1.0264	1.0000e-005	1.6000e-004	1.0748
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.6400e-003	0.1044	1.4000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.7925	13.7925	1.8300e-003	1.1000e-003	14.1671
Total	**0.0321**	**0.0137**	**0.1072**	**1.5000e-004**	**0.0128**	**1.3000e-004**	**0.0130**	**3.4300e-003**	**1.2000e-004**	**3.5500e-003**		**14.8189**	**14.8189**	**1.8400e-003**	**1.2600e-003**	**15.2419**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0157	0.0000	0.0157	2.3800e-003	0.0000	2.3800e-003			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**0.0157**	**0.9602**	**0.9759**	**2.3800e-003**	**0.8922**	**0.8946**	**0.0000**	**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	lb/day										lb/day					
Hauling	2.1000e-004	4.0200e-003	2.8100e-003	1.0000e-005	1.6000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005		1.0264	1.0264	1.0000e-005	1.6000e-004	1.0748
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.6400e-003	0.1044	1.4000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.7925	13.7925	1.8300e-003	1.1000e-003	14.1671
Total	**0.0321**	**0.0137**	**0.1072**	**1.5000e-004**	**0.0128**	**1.3000e-004**	**0.0130**	**3.4300e-003**	**1.2000e-004**	**3.5500e-003**		**14.8189**	**14.8189**	**1.8400e-003**	**1.2600e-003**	**15.2419**

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**19.6570**	**1.2294**	**20.8864**	**10.1025**	**1.1310**	**11.2335**		**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0382	0.0116	0.1253	1.6000e-004	0.0152	1.5000e-004	0.0154	4.0600e-003	1.4000e-004	4.1900e-003		16.5509	16.5509	2.1900e-003	1.3200e-003	17.0005
Total	**0.0382**	**0.0116**	**0.1253**	**1.6000e-004**	**0.0152**	**1.5000e-004**	**0.0154**	**4.0600e-003**	**1.4000e-004**	**4.1900e-003**		**16.5509**	**16.5509**	**2.1900e-003**	**1.3200e-003**	**17.0005**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**8.8457**	**1.2294**	**10.0750**	**4.5461**	**1.1310**	**5.6771**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0382	0.0116	0.1253	1.6000e-004	0.0152	1.5000e-004	0.0154	4.0600e-003	1.4000e-004	4.1900e-003		16.5509	16.5509	2.1900e-003	1.3200e-003	17.0005
Total	**0.0382**	**0.0116**	**0.1253**	**1.6000e-004**	**0.0152**	**1.5000e-004**	**0.0154**	**4.0600e-003**	**1.4000e-004**	**4.1900e-003**		**16.5509**	**16.5509**	**2.1900e-003**	**1.3200e-003**	**17.0005**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**9.2352**	**1.3354**	**10.5706**	**3.6585**	**1.2286**	**4.8871**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

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	lb/day										lb/day					
Hauling	0.0436	0.8439	0.5891	2.0300e-003	0.0344	2.6800e-003	0.0371	9.5000e-003	2.5600e-003	0.0121		215.2152	215.2152	2.4800e-003	0.0339	225.3632
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0425	0.0129	0.1392	1.8000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.5000e-004	4.6600e-003		18.3899	18.3899	2.4400e-003	1.4700e-003	18.8894
Total	**0.0861**	**0.8567**	**0.7284**	**2.2100e-003**	**0.0513**	**2.8400e-003**	**0.0542**	**0.0140**	**2.7100e-003**	**0.0167**		**233.6051**	**233.6051**	**4.9200e-003**	**0.0353**	**244.2527**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**4.1558**	**1.3354**	**5.4912**	**1.6463**	**1.2286**	**2.8749**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

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	lb/day										lb/day					
Hauling	0.0436	0.8439	0.5891	2.0300e-003	0.0344	2.6800e-003	0.0371	9.5000e-003	2.5600e-003	0.0121		215.2152	215.2152	2.4800e-003	0.0339	225.3632
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0425	0.0129	0.1392	1.8000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.5000e-004	4.6600e-003		18.3899	18.3899	2.4400e-003	1.4700e-003	18.8894
Total	**0.0861**	**0.8567**	**0.7284**	**2.2100e-003**	**0.0513**	**2.8400e-003**	**0.0542**	**0.0140**	**2.7100e-003**	**0.0167**		**233.6051**	**233.6051**	**4.9200e-003**	**0.0353**	**244.2527**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**9.2352**	**1.1309**	**10.3661**	**3.6585**	**1.0404**	**4.6990**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

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	lb/day										lb/day					
Hauling	0.0433	0.8375	0.5860	1.9900e-003	0.0344	2.6600e-003	0.0371	9.5000e-003	2.5500e-003	0.0121		210.5558	210.5558	2.4500e-003	0.0331	220.4847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0390	0.0117	0.1311	1.8000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.4000e-004	4.6500e-003		17.7629	17.7629	2.2200e-003	1.3900e-003	18.2323
Total	**0.0823**	**0.8492**	**0.7171**	**2.1700e-003**	**0.0513**	**2.8200e-003**	**0.0541**	**0.0140**	**2.6900e-003**	**0.0167**		**228.3187**	**228.3187**	**4.6700e-003**	**0.0345**	**238.7170**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**4.1558**	**1.1309**	**5.2867**	**1.6463**	**1.0404**	**2.6868**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare 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 Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0433	0.8375	0.5860	1.9900e-003	0.0344	2.6600e-003	0.0371	9.5000e-003	2.5500e-003	0.0121		210.5558	210.5558	2.4500e-003	0.0331	220.4847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0390	0.0117	0.1311	1.8000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.4000e-004	4.6500e-003		17.7629	17.7629	2.2200e-003	1.3900e-003	18.2323
Total	**0.0823**	**0.8492**	**0.7171**	**2.1700e-003**	**0.0513**	**2.8200e-003**	**0.0541**	**0.0140**	**2.6900e-003**	**0.0167**		**228.3187**	**228.3187**	**4.6700e-003**	**0.0345**	**238.7170**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**9.2352**	**1.1309**	**10.3661**	**3.6585**	**1.0404**	**4.6990**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

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	lb/day										lb/day					
Hauling	0.0430	0.8309	0.5830	1.9400e-003	0.0344	2.6400e-003	0.0370	9.5000e-003	2.5200e-003	0.0120		205.7865	205.7865	2.4300e-003	0.0324	215.4912
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0360	0.0107	0.1242	1.7000e-004	0.0169	1.5000e-004	0.0171	4.5100e-003	1.4000e-004	4.6400e-003		17.1699	17.1699	2.0400e-003	1.3200e-003	17.6132
Total	**0.0790**	**0.8416**	**0.7073**	**2.1100e-003**	**0.0513**	**2.7900e-003**	**0.0541**	**0.0140**	**2.6600e-003**	**0.0167**		**222.9564**	**222.9564**	**4.4700e-003**	**0.0337**	**233.1044**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**4.1558**	**1.1309**	**5.2867**	**1.6463**	**1.0404**	**2.6868**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

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	lb/day										lb/day					
Hauling	0.0430	0.8309	0.5830	1.9400e-003	0.0344	2.6400e-003	0.0370	9.5000e-003	2.5200e-003	0.0120		205.7865	205.7865	2.4300e-003	0.0324	215.4912
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0360	0.0107	0.1242	1.7000e-004	0.0169	1.5000e-004	0.0171	4.5100e-003	1.4000e-004	4.6400e-003		17.1699	17.1699	2.0400e-003	1.3200e-003	17.6132
Total	**0.0790**	**0.8416**	**0.7073**	**2.1100e-003**	**0.0513**	**2.7900e-003**	**0.0541**	**0.0140**	**2.6600e-003**	**0.0167**		**222.9564**	**222.9564**	**4.4700e-003**	**0.0337**	**233.1044**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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					
Parking Lot	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
Total		**0.0000**	**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

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					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Unmitigated	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559

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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	1.1948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2500e-003	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**		**0.0559**

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	1.1948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2500e-003	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**		**0.0559**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	240.00	Acre	240.00	10,454,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Trips and VMT - Note 10 - Construction

Demolition - Note 4

Grading - Note 4

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	30.00
tblGrading	MaterialImported	0.00	130,000.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	4.9529	48.0833	38.3150	0.0772	19.7200	2.1898	21.9098	10.1152	2.0235	12.1387	0.0000	7,463.8933	7,463.8933	2.2466	0.0359	7,520.9137
2025	2.9658	28.8624	27.0898	0.0642	9.2865	1.1338	10.4203	3.6726	1.0432	4.7157	0.0000	6,237.5958	6,237.5958	1.9484	0.0351	6,296.7602
2026	2.9633	28.8543	27.0791	0.0642	9.2865	1.1337	10.4203	3.6726	1.0431	4.7157	0.0000	6,232.2465	6,232.2465	1.9481	0.0343	6,291.1543
Maximum	**4.9529**	**48.0833**	**38.3150**	**0.0772**	**19.7200**	**2.1898**	**21.9098**	**10.1152**	**2.0235**	**12.1387**	**0.0000**	**7,463.8933**	**7,463.8933**	**2.2466**	**0.0359**	**7,520.9137**

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					
2024	4.9529	48.0833	38.3150	0.0772	8.8894	2.1898	11.0793	4.5560	2.0235	6.5794	0.0000	7,463.8933	7,463.8933	2.2466	0.0359	7,520.9137
2025	2.9658	28.8624	27.0898	0.0642	4.2072	1.1338	5.3409	1.6604	1.0432	2.7035	0.0000	6,237.5958	6,237.5958	1.9484	0.0351	6,296.7602
2026	2.9633	28.8543	27.0791	0.0642	4.2072	1.1337	5.3409	1.6604	1.0431	2.7035	0.0000	6,232.2464	6,232.2464	1.9481	0.0343	6,291.1543
Maximum	**4.9529**	**48.0833**	**38.3150**	**0.0772**	**8.8894**	**2.1898**	**11.0793**	**4.5560**	**2.0235**	**6.5794**	**0.0000**	**7,463.8933**	**7,463.8933**	**2.2466**	**0.0359**	**7,520.9137**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	54.81	0.00	49.10	54.89	0.00	44.43	0.00	0.00	0.00	0.00	0.00	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

2.2 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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
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
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**	**0.0000**	**0.0559**

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
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
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**	**0.0000**	**0.0559**

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	N20	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	3/14/2024	4/24/2024	5	30	
2	Site Preparation	Site Preparation	3/14/2024	11/20/2024	5	180	
3	Grading	Grading	11/21/2024	9/2/2026	5	465	

Acres of Grading (Site Preparation Phase): 270

Acres of Grading (Grading Phase): 1395

Acres of Paving: 240

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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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	6	15.00	0.00	5.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	16,250.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					0.0350	0.0000	0.0350	5.2900e-003	0.0000	5.2900e-003			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**0.0350**	**0.9602**	**0.9951**	**5.2900e-003**	**0.8922**	**0.8975**		**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	lb/day										lb/day					
Hauling	1.8000e-004	4.3500e-003	2.9000e-003	1.0000e-005	1.6000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005		1.0395	1.0395	1.0000e-005	1.6000e-004	1.0885
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0113	0.1223	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.4641	12.4641	2.4200e-003	1.2300e-003	12.8915
Total	**0.0220**	**0.0156**	**0.1252**	**1.3000e-004**	**0.0128**	**1.3000e-004**	**0.0130**	**3.4300e-003**	**1.2000e-004**	**3.5500e-003**		**13.5036**	**13.5036**	**2.4300e-003**	**1.3900e-003**	**13.9800**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0157	0.0000	0.0157	2.3800e-003	0.0000	2.3800e-003			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**0.0157**	**0.9602**	**0.9759**	**2.3800e-003**	**0.8922**	**0.8946**	**0.0000**	**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	lb/day										lb/day					
Hauling	1.8000e-004	4.3500e-003	2.9000e-003	1.0000e-005	1.6000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005		1.0395	1.0395	1.0000e-005	1.6000e-004	1.0885
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0113	0.1223	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.4641	12.4641	2.4200e-003	1.2300e-003	12.8915
Total	**0.0220**	**0.0156**	**0.1252**	**1.3000e-004**	**0.0128**	**1.3000e-004**	**0.0130**	**3.4300e-003**	**1.2000e-004**	**3.5500e-003**		**13.5036**	**13.5036**	**2.4300e-003**	**1.3900e-003**	**13.9800**

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**19.6570**	**1.2294**	**20.8864**	**10.1025**	**1.1310**	**11.2335**		**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0262	0.0135	0.1468	1.5000e-004	0.0152	1.5000e-004	0.0154	4.0600e-003	1.4000e-004	4.1900e-003		14.9570	14.9570	2.9100e-003	1.4800e-003	15.4698
Total	**0.0262**	**0.0135**	**0.1468**	**1.5000e-004**	**0.0152**	**1.5000e-004**	**0.0154**	**4.0600e-003**	**1.4000e-004**	**4.1900e-003**		**14.9570**	**14.9570**	**2.9100e-003**	**1.4800e-003**	**15.4698**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**8.8457**	**1.2294**	**10.0750**	**4.5461**	**1.1310**	**5.6771**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0262	0.0135	0.1468	1.5000e-004	0.0152	1.5000e-004	0.0154	4.0600e-003	1.4000e-004	4.1900e-003		14.9570	14.9570	2.9100e-003	1.4800e-003	15.4698
Total	**0.0262**	**0.0135**	**0.1468**	**1.5000e-004**	**0.0152**	**1.5000e-004**	**0.0154**	**4.0600e-003**	**1.4000e-004**	**4.1900e-003**		**14.9570**	**14.9570**	**2.9100e-003**	**1.4800e-003**	**15.4698**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**9.2352**	**1.3354**	**10.5706**	**3.6585**	**1.2286**	**4.8871**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

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	lb/day										lb/day					
Hauling	0.0381	0.9125	0.6076	2.0600e-003	0.0344	2.7400e-003	0.0371	9.5000e-003	2.6200e-003	0.0121		217.9627	217.9627	2.2200e-003	0.0343	228.2331
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0150	0.1631	1.6000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.5000e-004	4.6600e-003		16.6188	16.6188	3.2300e-003	1.6400e-003	17.1887
Total	**0.0672**	**0.9275**	**0.7707**	**2.2200e-003**	**0.0513**	**2.9000e-003**	**0.0542**	**0.0140**	**2.7700e-003**	**0.0168**		**234.5815**	**234.5815**	**5.4500e-003**	**0.0359**	**245.4217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**4.1558**	**1.3354**	**5.4912**	**1.6463**	**1.2286**	**2.8749**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

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	lb/day										lb/day					
Hauling	0.0381	0.9125	0.6076	2.0600e-003	0.0344	2.7400e-003	0.0371	9.5000e-003	2.6200e-003	0.0121		217.9627	217.9627	2.2200e-003	0.0343	228.2331
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0150	0.1631	1.6000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.5000e-004	4.6600e-003		16.6188	16.6188	3.2300e-003	1.6400e-003	17.1887
Total	**0.0672**	**0.9275**	**0.7707**	**2.2200e-003**	**0.0513**	**2.9000e-003**	**0.0542**	**0.0140**	**2.7700e-003**	**0.0168**		**234.5815**	**234.5815**	**5.4500e-003**	**0.0359**	**245.4217**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**9.2352**	**1.1309**	**10.3661**	**3.6585**	**1.0404**	**4.6990**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

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	lb/day										lb/day					
Hauling	0.0379	0.9059	0.6043	2.0100e-003	0.0344	2.7200e-003	0.0371	9.5000e-003	2.6000e-003	0.0121		213.2587	213.2587	2.2000e-003	0.0335	223.3079
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0267	0.0137	0.1545	1.6000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.4000e-004	4.6500e-003		16.0557	16.0557	2.9500e-003	1.5500e-003	16.5909
Total	**0.0645**	**0.9195**	**0.7587**	**2.1700e-003**	**0.0513**	**2.8800e-003**	**0.0542**	**0.0140**	**2.7400e-003**	**0.0168**		**229.3144**	**229.3144**	**5.1500e-003**	**0.0351**	**239.8988**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**4.1558**	**1.1309**	**5.2867**	**1.6463**	**1.0404**	**2.6868**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

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	lb/day										lb/day					
Hauling	0.0379	0.9059	0.6043	2.0100e-003	0.0344	2.7200e-003	0.0371	9.5000e-003	2.6000e-003	0.0121		213.2587	213.2587	2.2000e-003	0.0335	223.3079
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0267	0.0137	0.1545	1.6000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.4000e-004	4.6500e-003		16.0557	16.0557	2.9500e-003	1.5500e-003	16.5909
Total	**0.0645**	**0.9195**	**0.7587**	**2.1700e-003**	**0.0513**	**2.8800e-003**	**0.0542**	**0.0140**	**2.7400e-003**	**0.0168**		**229.3144**	**229.3144**	**5.1500e-003**	**0.0351**	**239.8988**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**9.2352**	**1.1309**	**10.3661**	**3.6585**	**1.0404**	**4.6990**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	lb/day										lb/day					
Hauling	0.0376	0.8989	0.6011	1.9700e-003	0.0344	2.6900e-003	0.0371	9.5000e-003	2.5800e-003	0.0121		208.4429	208.4429	2.1700e-003	0.0328	218.2657
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0125	0.1469	1.5000e-004	0.0169	1.5000e-004	0.0171	4.5100e-003	1.4000e-004	4.6400e-003		15.5221	15.5221	2.7000e-003	1.4700e-003	16.0271
Total	**0.0621**	**0.9114**	**0.7481**	**2.1200e-003**	**0.0513**	**2.8400e-003**	**0.0542**	**0.0140**	**2.7200e-003**	**0.0167**		**223.9650**	**223.9650**	**4.8700e-003**	**0.0343**	**234.2928**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**4.1558**	**1.1309**	**5.2867**	**1.6463**	**1.0404**	**2.6868**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

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	lb/day										lb/day					
Hauling	0.0376	0.8989	0.6011	1.9700e-003	0.0344	2.6900e-003	0.0371	9.5000e-003	2.5800e-003	0.0121		208.4429	208.4429	2.1700e-003	0.0328	218.2657
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0125	0.1469	1.5000e-004	0.0169	1.5000e-004	0.0171	4.5100e-003	1.4000e-004	4.6400e-003		15.5221	15.5221	2.7000e-003	1.4700e-003	16.0271
Total	**0.0621**	**0.9114**	**0.7481**	**2.1200e-003**	**0.0513**	**2.8400e-003**	**0.0542**	**0.0140**	**2.7200e-003**	**0.0167**		**223.9650**	**223.9650**	**4.8700e-003**	**0.0343**	**234.2928**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

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					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Unmitigated	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	1.1948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2500e-003	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**		**0.0559**

4115.0039 Shirk & Riggin Industrial Park Project - Unmit LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	1.1948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2500e-003	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**		**0.0559**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,864.70	1000sqft	42.81	1,864,700.00	0
Parking Lot	75.19	Acre	75.19	3,275,276.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	932350	0
tblAreaCoating	Area_Nonresidential_Interior	2797050	0
tblAreaCoating	Area_Parking	196517	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
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

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare 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
tblConstructionPhase	NumDays	3,100.00	262.00
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	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	8.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	1,752.82	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	431,211,875.00	0.00

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	39.7470	185.8782	234.7728	0.4058	3.0826	7.8662	10.9489	0.8426	7.3933	8.2359	0.0000	39,078.5184	39,078.5184	8.2573	0.7844	39,518.7039
2025	37.9693	173.0921	232.5897	0.4045	3.0826	6.7882	9.8708	0.8426	6.3800	7.2226	0.0000	38,933.3970	38,933.3970	8.1876	0.7621	39,365.1875
Maximum	**39.7470**	**185.8782**	**234.7728**	**0.4058**	**3.0826**	**7.8662**	**10.9489**	**0.8426**	**7.3933**	**8.2359**	**0.0000**	**39,078.5184**	**39,078.5184**	**8.2573**	**0.7844**	**39,518.7039**

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					
2024	27.6017	48.0157	254.7649	0.4058	3.0826	1.1160	4.1986	0.8426	1.1125	1.9551	0.0000	39,078.5184	39,078.5184	8.2573	0.7844	39,518.7038
2025	26.9521	47.3378	253.4614	0.4045	3.0826	1.0369	4.1195	0.8426	1.0335	1.8761	0.0000	38,933.3970	38,933.3970	8.1876	0.7621	39,365.1875
Maximum	**27.6017**	**48.0157**	**254.7649**	**0.4058**	**3.0826**	**1.1160**	**4.1986**	**0.8426**	**1.1125**	**1.9551**	**0.0000**	**39,078.5184**	**39,078.5184**	**8.2573**	**0.7844**	**39,518.7038**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare 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	N20	CO2e
Percent Reduction	**29.80**	**73.44**	**-8.74**	**0.00**	**0.00**	**85.31**	**60.05**	**0.00**	**84.42**	**75.22**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
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
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**	**0.0000**	**7.0000e-004**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**	**0.0000**	**0.4522**

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
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
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**	**0.0000**	**7.0000e-004**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**	**0.0000**	**0.4522**

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	N20	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	Building Construction	Building Construction	3/14/2024	3/14/2025	5	262	
2	Paving	Paving	3/14/2024	1/15/2025	5	220	
3	Architectural Coating	Architectural Coating	5/10/2024	3/13/2025	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 75.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,797,050; Non-Residential Outdoor: 932,350; Striped Parking Area: 196,517 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	12	6.90	231	0.29
Building Construction	Forklifts	32	8.90	89	0.20
Building Construction	Generator Sets	12	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	32	7.80	97	0.37
Building Construction	Welders	12	7.90	46	0.45
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

Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	100	2,159.00	842.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	432.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	17.4501	159.4230	191.8101	0.3196		7.2738	7.2738		6.8418	6.8418		30,310.2465	30,310.2465	7.1697		30,489.4892
Total	**17.4501**	**159.4230**	**191.8101**	**0.3196**		**7.2738**	**7.2738**		**6.8418**	**6.8418**		**30,310.2465**	**30,310.2465**	**7.1697**		**30,489.4892**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6321	14.0376	8.3842	0.0367	0.8791	0.0417	0.9208	0.2551	0.0399	0.2950		3,883.0686	3,883.0686	0.0400	0.5927	4,060.6822
Worker	4.5839	1.3871	15.0307	0.0196	1.8255	0.0177	1.8433	0.4867	0.0163	0.5030		1,985.1931	1,985.1931	0.2633	0.1589	2,039.1132
Total	**5.2160**	**15.4247**	**23.4149**	**0.0564**	**2.7046**	**0.0594**	**2.7640**	**0.7419**	**0.0562**	**0.7980**		**5,868.2617**	**5,868.2617**	**0.3032**	**0.7515**	**6,099.7954**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.1635	30.9597	209.1099	0.3196		1.0116	1.0116		1.0116	1.0116	0.0000	30,310.2465	30,310.2465	7.1697		30,489.4892
Total	**6.1635**	**30.9597**	**209.1099**	**0.3196**		**1.0116**	**1.0116**		**1.0116**	**1.0116**	**0.0000**	**30,310.2465**	**30,310.2465**	**7.1697**		**30,489.4892**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6321	14.0376	8.3842	0.0367	0.8791	0.0417	0.9208	0.2551	0.0399	0.2950		3,883.0686	3,883.0686	0.0400	0.5927	4,060.6822
Worker	4.5839	1.3871	15.0307	0.0196	1.8255	0.0177	1.8433	0.4867	0.0163	0.5030		1,985.1931	1,985.1931	0.2633	0.1589	2,039.1132
Total	**5.2160**	**15.4247**	**23.4149**	**0.0564**	**2.7046**	**0.0594**	**2.7640**	**0.7419**	**0.0562**	**0.7980**		**5,868.2617**	**5,868.2617**	**0.3032**	**0.7515**	**6,099.7954**

3.2 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	16.2145	147.8725	190.8364	0.3198		6.2563	6.2563		5.8850	5.8850		30,319.4625	30,319.4625	7.1294		30,497.6975
Total	**16.2145**	**147.8725**	**190.8364**	**0.3198**		**6.2563**	**6.2563**		**5.8850**	**5.8850**		**30,319.4625**	**30,319.4625**	**7.1294**		**30,497.6975**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6228	13.9687	8.2844	0.0360	0.8791	0.0416	0.9207	0.2551	0.0398	0.2949		3,811.2357	3,811.2357	0.0392	0.5811	3,985.3960
Worker	4.2111	1.2624	14.1517	0.0190	1.8255	0.0168	1.8424	0.4867	0.0155	0.5022		1,917.5049	1,917.5049	0.2401	0.1499	1,968.1815
Total	**4.8339**	**15.2312**	**22.4362**	**0.0550**	**2.7047**	**0.0584**	**2.7630**	**0.7419**	**0.0552**	**0.7971**		**5,728.7406**	**5,728.7406**	**0.2794**	**0.7311**	**5,953.5775**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.9731	30.5012	208.9672	0.3198		0.9337	0.9337		0.9337	0.9337	0.0000	30,319.4624	30,319.4624	7.1294		30,497.6975
Total	**5.9731**	**30.5012**	**208.9672**	**0.3198**		**0.9337**	**0.9337**		**0.9337**	**0.9337**	**0.0000**	**30,319.4624**	**30,319.4624**	**7.1294**		**30,497.6975**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6228	13.9687	8.2844	0.0360	0.8791	0.0416	0.9207	0.2551	0.0398	0.2949		3,811.2357	3,811.2357	0.0392	0.5811	3,985.3960
Worker	4.2111	1.2624	14.1517	0.0190	1.8255	0.0168	1.8424	0.4867	0.0155	0.5022		1,917.5049	1,917.5049	0.2401	0.1499	1,968.1815
Total	**4.8339**	**15.2312**	**22.4362**	**0.0550**	**2.7047**	**0.0584**	**2.7630**	**0.7419**	**0.0552**	**0.7971**		**5,728.7406**	**5,728.7406**	**0.2794**	**0.7311**	**5,953.5775**

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8836**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.6400e-003	0.1044	1.4000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.7925	13.7925	1.8300e-003	1.1000e-003	14.1671
Total	**0.0319**	**9.6400e-003**	**0.1044**	**1.4000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.7925**	**13.7925**	**1.8300e-003**	**1.1000e-003**	**14.1671**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1759**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.6400e-003	0.1044	1.4000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.7925	13.7925	1.8300e-003	1.1000e-003	14.1671
Total	**0.0319**	**9.6400e-003**	**0.1044**	**1.4000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.7925**	**13.7925**	**1.8300e-003**	**1.1000e-003**	**14.1671**

3.3 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	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8106**	**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**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0293	8.7700e-003	0.0983	1.3000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.3222	13.3222	1.6700e-003	1.0400e-003	13.6743
Total	**0.0293**	**8.7700e-003**	**0.0983**	**1.3000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.3222**	**13.3222**	**1.6700e-003**	**1.0400e-003**	**13.6743**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1759**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0293	8.7700e-003	0.0983	1.3000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.3222	13.3222	1.6700e-003	1.0400e-003	13.6743
Total	**0.0293**	**8.7700e-003**	**0.0983**	**1.3000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.3222**	**13.3222**	**1.6700e-003**	**1.0400e-003**	**13.6743**

3.4 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	14.0676					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
Total	**14.2483**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9172	0.2775	3.0075	3.9300e-003	0.3653	3.5400e-003	0.3688	0.0974	3.2600e-003	0.1007		397.2225	397.2225	0.0527	0.0318	408.0115
Total	**0.9172**	**0.2775**	**3.0075**	**3.9300e-003**	**0.3653**	**3.5400e-003**	**0.3688**	**0.0974**	**3.2600e-003**	**0.1007**		**397.2225**	**397.2225**	**0.0527**	**0.0318**	**408.0115**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	14.0676					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	0.0159		281.8443
Total	**14.0973**	**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**	**0.0159**		**281.8443**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9172	0.2775	3.0075	3.9300e-003	0.3653	3.5400e-003	0.3688	0.0974	3.2600e-003	0.1007		397.2225	397.2225	0.0527	0.0318	408.0115
Total	**0.9172**	**0.2775**	**3.0075**	**3.9300e-003**	**0.3653**	**3.5400e-003**	**0.3688**	**0.0974**	**3.2600e-003**	**0.1007**		**397.2225**	**397.2225**	**0.0527**	**0.0318**	**408.0115**

3.4 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	14.0676					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
Total	**14.2384**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8426	0.2526	2.8317	3.8000e-003	0.3653	3.3700e-003	0.3686	0.0974	3.1000e-003	0.1005		383.6786	383.6786	0.0481	0.0300	393.8186
Total	**0.8426**	**0.2526**	**2.8317**	**3.8000e-003**	**0.3653**	**3.3700e-003**	**0.3686**	**0.0974**	**3.1000e-003**	**0.1005**		**383.6786**	**383.6786**	**0.0481**	**0.0300**	**393.8186**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	14.0676					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
Total	**14.0973**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8426	0.2526	2.8317	3.8000e-003	0.3653	3.3700e-003	0.3686	0.0974	3.1000e-003	0.1005		383.6786	383.6786	0.0481	0.0300	393.8186
Total	**0.8426**	**0.2526**	**2.8317**	**3.8000e-003**	**0.3653**	**3.3700e-003**	**0.3686**	**0.0974**	**3.1000e-003**	**0.1005**		**383.6786**	**383.6786**	**0.0481**	**0.0300**	**393.8186**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	0.0000	0.0000	0.0000	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

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					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare 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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Unmitigated	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522

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
Landscaping	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**		**0.4522**

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
Landscaping	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**		**0.4522**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,864.70	1000sqft	42.81	1,864,700.00	0
Parking Lot	75.19	Acre	75.19	3,275,276.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	932350	0
tblAreaCoating	Area_Nonresidential_Interior	2797050	0
tblAreaCoating	Area_Parking	196517	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
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

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Winter

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
tblConstructionPhase	NumDays	3,100.00	262.00
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	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	32.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	8.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	1,752.82	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	431,211,875.00	0.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	37.9460	187.1537	238.3030	0.4039	3.0826	7.8671	10.9497	0.8426	7.3941	8.2367	0.0000	38,881.7237	38,881.7237	8.3579	0.8125	39,332.7998
2025	36.2954	174.3397	236.0476	0.4026	3.0826	6.7890	9.8716	0.8426	6.3807	7.2234	0.0000	38,744.5683	38,744.5683	8.2793	0.7888	39,186.6220
Maximum	**37.9460**	**187.1537**	**238.3030**	**0.4039**	**3.0826**	**7.8671**	**10.9497**	**0.8426**	**7.3941**	**8.2367**	**0.0000**	**38,881.7237**	**38,881.7237**	**8.3579**	**0.8125**	**39,332.7998**

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					
2024	25.8007	49.2912	258.2951	0.4039	3.0826	1.1168	4.1994	0.8426	1.1133	1.9559	0.0000	38,881.7237	38,881.7237	8.3579	0.8125	39,332.7998
2025	25.2782	48.5854	256.9194	0.4026	3.0826	1.0377	4.1203	0.8426	1.0343	1.8769	0.0000	38,744.5683	38,744.5683	8.2793	0.7888	39,186.6220
Maximum	**25.8007**	**49.2912**	**258.2951**	**0.4039**	**3.0826**	**1.1168**	**4.1994**	**0.8426**	**1.1133**	**1.9559**	**0.0000**	**38,881.7237**	**38,881.7237**	**8.3579**	**0.8125**	**39,332.7998**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Winter

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	N20	CO2e
Percent Reduction	**31.20**	**72.92**	**-8.61**	**0.00**	**0.00**	**85.30**	**60.04**	**0.00**	**84.41**	**75.21**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
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
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**	**0.0000**	**7.0000e-004**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**	**0.0000**	**0.4522**

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
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
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**	**0.0000**	**7.0000e-004**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**	**0.0000**	**0.4522**

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	N20	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	Building Construction	Building Construction	3/14/2024	3/14/2025	5	262	
2	Paving	Paving	3/14/2024	1/15/2025	5	220	
3	Architectural Coating	Architectural Coating	5/10/2024	3/13/2025	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 75.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,797,050; Non-Residential Outdoor: 932,350; Striped Parking Area: 196,517 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	12	6.90	231	0.29
Building Construction	Forklifts	32	8.90	89	0.20
Building Construction	Generator Sets	12	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	32	7.80	97	0.37
Building Construction	Welders	12	7.90	46	0.45
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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	100	2,159.00	842.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	432.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	17.4501	159.4230	191.8101	0.3196		7.2738	7.2738		6.8418	6.8418		30,310.2465	30,310.2465	7.1697		30,489.4892
Total	**17.4501**	**159.4230**	**191.8101**	**0.3196**		**7.2738**	**7.2738**		**6.8418**	**6.8418**		**30,310.2465**	**30,310.2465**	**7.1697**		**30,489.4892**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5665	15.0270	8.8075	0.0370	0.8791	0.0425	0.9216	0.2551	0.0406	0.2958		3,917.0481	3,917.0481	0.0378	0.5986	4,096.3862
Worker	3.1461	1.6241	17.6047	0.0178	1.8255	0.0177	1.8433	0.4867	0.0163	0.5030		1,794.0030	1,794.0030	0.3485	0.1772	1,855.5171
Total	**3.7126**	**16.6511**	**26.4122**	**0.0548**	**2.7046**	**0.0602**	**2.7648**	**0.7419**	**0.0569**	**0.7988**		**5,711.0511**	**5,711.0511**	**0.3863**	**0.7758**	**5,951.9032**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.1635	30.9597	209.1099	0.3196		1.0116	1.0116		1.0116	1.0116	0.0000	30,310.2465	30,310.2465	7.1697		30,489.4892
Total	**6.1635**	**30.9597**	**209.1099**	**0.3196**		**1.0116**	**1.0116**		**1.0116**	**1.0116**	**0.0000**	**30,310.2465**	**30,310.2465**	**7.1697**		**30,489.4892**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5665	15.0270	8.8075	0.0370	0.8791	0.0425	0.9216	0.2551	0.0406	0.2958		3,917.0481	3,917.0481	0.0378	0.5986	4,096.3862
Worker	3.1461	1.6241	17.6047	0.0178	1.8255	0.0177	1.8433	0.4867	0.0163	0.5030		1,794.0030	1,794.0030	0.3485	0.1772	1,855.5171
Total	**3.7126**	**16.6511**	**26.4122**	**0.0548**	**2.7046**	**0.0602**	**2.7648**	**0.7419**	**0.0569**	**0.7988**		**5,711.0511**	**5,711.0511**	**0.3863**	**0.7758**	**5,951.9032**

3.2 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	16.2145	147.8725	190.8364	0.3198		6.2563	6.2563		5.8850	5.8850		30,319.4625	30,319.4625	7.1294		30,497.6975
Total	**16.2145**	**147.8725**	**190.8364**	**0.3198**		**6.2563**	**6.2563**		**5.8850**	**5.8850**		**30,319.4625**	**30,319.4625**	**7.1294**		**30,497.6975**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5578	14.9563	8.6981	0.0364	0.8791	0.0424	0.9215	0.2551	0.0405	0.2957		3,844.8502	3,844.8502	0.0370	0.5870	4,020.7106
Worker	2.8782	1.4779	16.6739	0.0172	1.8255	0.0168	1.8424	0.4867	0.0155	0.5022		1,733.2168	1,733.2168	0.3180	0.1672	1,790.9877
Total	**3.4360**	**16.4341**	**25.3719**	**0.0535**	**2.7047**	**0.0592**	**2.7638**	**0.7419**	**0.0560**	**0.7979**		**5,578.0669**	**5,578.0669**	**0.3550**	**0.7542**	**5,811.6982**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.9731	30.5012	208.9672	0.3198		0.9337	0.9337		0.9337	0.9337	0.0000	30,319.4624	30,319.4624	7.1294		30,497.6975
Total	**5.9731**	**30.5012**	**208.9672**	**0.3198**		**0.9337**	**0.9337**		**0.9337**	**0.9337**	**0.0000**	**30,319.4624**	**30,319.4624**	**7.1294**		**30,497.6975**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5578	14.9563	8.6981	0.0364	0.8791	0.0424	0.9215	0.2551	0.0405	0.2957		3,844.8502	3,844.8502	0.0370	0.5870	4,020.7106
Worker	2.8782	1.4779	16.6739	0.0172	1.8255	0.0168	1.8424	0.4867	0.0155	0.5022		1,733.2168	1,733.2168	0.3180	0.1672	1,790.9877
Total	**3.4360**	**16.4341**	**25.3719**	**0.0535**	**2.7047**	**0.0592**	**2.7638**	**0.7419**	**0.0560**	**0.7979**		**5,578.0669**	**5,578.0669**	**0.3550**	**0.7542**	**5,811.6982**

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8836**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0113	0.1223	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.4641	12.4641	2.4200e-003	1.2300e-003	12.8915
Total	**0.0219**	**0.0113**	**0.1223**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.4641**	**12.4641**	**2.4200e-003**	**1.2300e-003**	**12.8915**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1759**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0113	0.1223	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.4641	12.4641	2.4200e-003	1.2300e-003	12.8915
Total	**0.0219**	**0.0113**	**0.1223**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.4641**	**12.4641**	**2.4200e-003**	**1.2300e-003**	**12.8915**

3.3 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	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8106**	**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**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0103	0.1158	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.0418	12.0418	2.2100e-003	1.1600e-003	12.4432
Total	**0.0200**	**0.0103**	**0.1158**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.0418**	**12.0418**	**2.2100e-003**	**1.1600e-003**	**12.4432**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.8954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1759**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0103	0.1158	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.0418	12.0418	2.2100e-003	1.1600e-003	12.4432
Total	**0.0200**	**0.0103**	**0.1158**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.0418**	**12.0418**	**2.2100e-003**	**1.1600e-003**	**12.4432**

3.4 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	14.0676					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
Total	**14.2483**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.6295	0.3250	3.5226	3.5500e-003	0.3653	3.5400e-003	0.3688	0.0974	3.2600e-003	0.1007		358.9668	358.9668	0.0697	0.0355	371.2753
Total	**0.6295**	**0.3250**	**3.5226**	**3.5500e-003**	**0.3653**	**3.5400e-003**	**0.3688**	**0.0974**	**3.2600e-003**	**0.1007**		**358.9668**	**358.9668**	**0.0697**	**0.0355**	**371.2753**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	14.0676					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	0.0159		281.8443
Total	**14.0973**	**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**	**0.0159**		**281.8443**

4115.0039 Shirk & Riggin Industrial Park Project - Construction LST PHASE 1_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.6295	0.3250	3.5226	3.5500e-003	0.3653	3.5400e-003	0.3688	0.0974	3.2600e-003	0.1007		358.9668	358.9668	0.0697	0.0355	371.2753
Total	**0.6295**	**0.3250**	**3.5226**	**3.5500e-003**	**0.3653**	**3.5400e-003**	**0.3688**	**0.0974**	**3.2600e-003**	**0.1007**		**358.9668**	**358.9668**	**0.0697**	**0.0355**	**371.2753**

3.4 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	14.0676					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
Total	**14.2384**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5759	0.2957	3.3363	3.4300e-003	0.3653	3.3700e-003	0.3686	0.0974	3.1000e-003	0.1005		346.8039	346.8039	0.0636	0.0335	358.3635
Total	**0.5759**	**0.2957**	**3.3363**	**3.4300e-003**	**0.3653**	**3.3700e-003**	**0.3686**	**0.0974**	**3.1000e-003**	**0.1005**		**346.8039**	**346.8039**	**0.0636**	**0.0335**	**358.3635**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	14.0676					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
Total	**14.0973**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5759	0.2957	3.3363	3.4300e-003	0.3653	3.3700e-003	0.3686	0.0974	3.1000e-003	0.1005		346.8039	346.8039	0.0636	0.0335	358.3635
Total	**0.5759**	**0.2957**	**3.3363**	**3.4300e-003**	**0.3653**	**3.3700e-003**	**0.3686**	**0.0974**	**3.1000e-003**	**0.1005**		**346.8039**	**346.8039**	**0.0636**	**0.0335**	**358.3635**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	0.0000	0.0000	0.0000	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

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					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

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	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Unmitigated	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522

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
Landscaping	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**		**0.4522**

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
Landscaping	0.0182	1.7900e-003	0.1976	1.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		0.4246	0.4246	1.1000e-003		0.4522
Total	**0.0182**	**1.7900e-003**	**0.1976**	**1.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**		**0.4246**	**0.4246**	**1.1000e-003**		**0.4522**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
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

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
tblConstructionPhase	NumDays	1,110.00	261.00
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00
tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	0.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2025	11.0635	69.9046	95.3413	0.1679	1.5250	2.6858	4.2108	0.4182	2.5180	2.9362	0.0000	16,251.1700	16,251.1700	3.4157	0.4099	16,458.7220
2026	30.6287	62.4846	83.5079	0.1492	1.7161	2.3198	4.0359	0.4692	2.1853	2.6545	0.0000	14,442.5510	14,442.5510	2.7285	0.4138	14,634.0851
Maximum	**30.6287**	**69.9046**	**95.3413**	**0.1679**	**1.7161**	**2.6858**	**4.2108**	**0.4692**	**2.5180**	**2.9362**	**0.0000**	**16,251.1700**	**16,251.1700**	**3.4157**	**0.4138**	**16,458.7220**

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					
2025	6.7683	20.5960	104.5406	0.1679	1.5250	0.4024	1.9274	0.4182	0.4006	0.8188	0.0000	16,251.1700	16,251.1700	3.4157	0.4099	16,458.7220
2026	26.8271	19.5254	90.0128	0.1492	1.7161	0.3700	2.0861	0.4692	0.3681	0.8373	0.0000	14,442.5510	14,442.5510	2.7285	0.4138	14,634.0851
Maximum	**26.8271**	**20.5960**	**104.5406**	**0.1679**	**1.7161**	**0.4024**	**2.0861**	**0.4692**	**0.4006**	**0.8373**	**0.0000**	**16,251.1700**	**16,251.1700**	**3.4157**	**0.4138**	**16,458.7220**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare 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	N20	CO2e
Percent Reduction	19.42	69.69	-8.78	0.00	0.00	84.57	51.33	0.00	83.66	70.38	0.00	0.00	0.00	0.00	0.00	0.00

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

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	N20	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	Building Construction	Building Construction	9/12/2025	9/12/2026	5	261	
2	Paving	Paving	9/12/2025	12/25/2025	5	75	
3	Architectural Coating	Architectural Coating	6/1/2026	9/11/2026	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	241.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3484	7.8139	4.6342	0.0202	0.4918	0.0233	0.5150	0.1427	0.0222	0.1650		2,131.9382	2,131.9382	0.0220	0.3251	2,229.3605
Worker	2.3542	0.7058	7.9116	0.0106	1.0206	9.4000e-003	1.0300	0.2721	8.6500e-003	0.2808		1,071.9909	1,071.9909	0.1343	0.0838	1,100.3219
Total	**2.7026**	**8.5196**	**12.5458**	**0.0308**	**1.5123**	**0.0327**	**1.5450**	**0.4148**	**0.0309**	**0.4457**		**3,203.9292**	**3,203.9292**	**0.1562**	**0.4089**	**3,329.6824**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	2.1267	10.8522	74.6009	0.1142		0.3322	0.3322		0.3322	0.3322	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**2.1267**	**10.8522**	**74.6009**	**0.1142**		**0.3322**	**0.3322**		**0.3322**	**0.3322**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3484	7.8139	4.6342	0.0202	0.4918	0.0233	0.5150	0.1427	0.0222	0.1650		2,131.9382	2,131.9382	0.0220	0.3251	2,229.3605
Worker	2.3542	0.7058	7.9116	0.0106	1.0206	9.4000e-003	1.0300	0.2721	8.6500e-003	0.2808		1,071.9909	1,071.9909	0.1343	0.0838	1,100.3219
Total	**2.7026**	**8.5196**	**12.5458**	**0.0308**	**1.5123**	**0.0327**	**1.5450**	**0.4148**	**0.0309**	**0.4457**		**3,203.9292**	**3,203.9292**	**0.1562**	**0.4089**	**3,329.6824**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3435	7.7692	4.5847	0.0198	0.4918	0.0231	0.5149	0.1427	0.0221	0.1648		2,090.8291	2,090.8291	0.0216	0.3185	2,186.2803
Worker	2.1697	0.6462	7.4978	0.0103	1.0206	8.9100e-003	1.0295	0.2721	8.2000e-003	0.2803		1,036.2031	1,036.2031	0.1229	0.0795	1,062.9563
Total	**2.5132**	**8.4155**	**12.0824**	**0.0300**	**1.5124**	**0.0320**	**1.5443**	**0.4148**	**0.0303**	**0.4451**		**3,127.0322**	**3,127.0322**	**0.1444**	**0.3980**	**3,249.2367**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	2.1267	10.8522	74.6009	0.1142		0.3322	0.3322		0.3322	0.3322	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**2.1267**	**10.8522**	**74.6009**	**0.1142**		**0.3322**	**0.3322**		**0.3322**	**0.3322**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3435	7.7692	4.5847	0.0198	0.4918	0.0231	0.5149	0.1427	0.0221	0.1648		2,090.8291	2,090.8291	0.0216	0.3185	2,186.2803
Worker	2.1697	0.6462	7.4978	0.0103	1.0206	8.9100e-003	1.0295	0.2721	8.2000e-003	0.2803		1,036.2031	1,036.2031	0.1229	0.0795	1,062.9563
Total	**2.5132**	**8.4155**	**12.0824**	**0.0300**	**1.5124**	**0.0320**	**1.5443**	**0.4148**	**0.0303**	**0.4451**		**3,127.0322**	**3,127.0322**	**0.1444**	**0.3980**	**3,249.2367**

3.3 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	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.5444**	**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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0293	8.7700e-003	0.0983	1.3000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.3222	13.3222	1.6700e-003	1.0400e-003	13.6743
Total	**0.0293**	**8.7700e-003**	**0.0983**	**1.3000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.3222**	**13.3222**	**1.6700e-003**	**1.0400e-003**	**13.6743**

3.3 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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9098**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0293	8.7700e-003	0.0983	1.3000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.3222	13.3222	1.6700e-003	1.0400e-003	13.6743
Total	**0.0293**	**8.7700e-003**	**0.0983**	**1.3000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**13.3222**	**13.3222**	**1.6700e-003**	**1.0400e-003**	**13.6743**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	21.7243					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
Total	**21.8952**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4332	0.1290	1.4971	2.0500e-003	0.2038	1.7800e-003	0.2056	0.0543	1.6400e-003	0.0560		206.8972	206.8972	0.0245	0.0159	212.2390
Total	**0.4332**	**0.1290**	**1.4971**	**2.0500e-003**	**0.2038**	**1.7800e-003**	**0.2056**	**0.0543**	**1.6400e-003**	**0.0560**		**206.8972**	**206.8972**	**0.0245**	**0.0159**	**212.2390**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	21.7243					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
Total	**21.7541**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4332	0.1290	1.4971	2.0500e-003	0.2038	1.7800e-003	0.2056	0.0543	1.6400e-003	0.0560		206.8972	206.8972	0.0245	0.0159	212.2390
Total	**0.4332**	**0.1290**	**1.4971**	**2.0500e-003**	**0.2038**	**1.7800e-003**	**0.2056**	**0.0543**	**1.6400e-003**	**0.0560**		**206.8972**	**206.8972**	**0.0245**	**0.0159**	**212.2390**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Fast Food Restaurant with Drive Thru	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Industrial Park	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Parking Lot	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Unrefrigerated Warehouse-No Rail	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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					
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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**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

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Unmitigated	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
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

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

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
tblConstructionPhase	NumDays	1,110.00	261.00
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00
tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	0.00

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2025	10.2727	70.5789	97.0002	0.1670	1.5250	2.6862	4.2113	0.4182	2.5184	2.9366	0.0000	16,165.6658	16,165.6658	3.4585	0.4230	16,378.1842
2026	29.7621	63.1675	85.3774	0.1482	1.7161	2.3202	4.0363	0.4692	2.1857	2.6549	0.0000	14,341.8291	14,341.8291	2.7750	0.4281	14,538.7661
Maximum	**29.7621**	**70.5789**	**97.0002**	**0.1670**	**1.7161**	**2.6862**	**4.2113**	**0.4692**	**2.5184**	**2.9366**	**0.0000**	**16,165.6658**	**16,165.6658**	**3.4585**	**0.4281**	**16,378.1842**

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					
2025	5.9775	21.2703	106.1995	0.1670	1.5250	0.4028	1.9278	0.4182	0.4010	0.8192	0.0000	16,165.6658	16,165.6658	3.4585	0.4230	16,378.1841
2026	25.9605	20.2084	91.8822	0.1482	1.7161	0.3704	2.0865	0.4692	0.3685	0.8377	0.0000	14,341.8291	14,341.8291	2.7750	0.4281	14,538.7661
Maximum	**25.9605**	**21.2703**	**106.1995**	**0.1670**	**1.7161**	**0.4028**	**2.0865**	**0.4692**	**0.4010**	**0.8377**	**0.0000**	**16,165.6658**	**16,165.6658**	**3.4585**	**0.4281**	**16,378.1841**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

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	N20	CO2e
Percent Reduction	20.22	68.99	-8.61	0.00	0.00	84.56	51.33	0.00	83.64	70.37	0.00	0.00	0.00	0.00	0.00	0.00

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

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	N20	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	Building Construction	Building Construction	9/12/2025	9/12/2026	5	261	
2	Paving	Paving	9/12/2025	12/25/2025	5	75	
3	Architectural Coating	Architectural Coating	6/1/2026	9/11/2026	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	241.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3120	8.3663	4.8655	0.0203	0.4918	0.0237	0.5155	0.1427	0.0227	0.1654		2,150.7416	2,150.7416	0.0207	0.3284	2,249.1148
Worker	1.6091	0.8262	9.3216	9.5900e-003	1.0206	9.4000e-003	1.0300	0.2721	8.6500e-003	0.2808		968.9637	968.9637	0.1778	0.0935	1,001.2608
Total	**1.9211**	**9.1925**	**14.1872**	**0.0299**	**1.5123**	**0.0331**	**1.5454**	**0.4148**	**0.0313**	**0.4461**		**3,119.7053**	**3,119.7053**	**0.1985**	**0.4219**	**3,250.3756**

3.2 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	2.1267	10.8522	74.6009	0.1142		0.3322	0.3322		0.3322	0.3322	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**2.1267**	**10.8522**	**74.6009**	**0.1142**		**0.3322**	**0.3322**		**0.3322**	**0.3322**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3120	8.3663	4.8655	0.0203	0.4918	0.0237	0.5155	0.1427	0.0227	0.1654		2,150.7416	2,150.7416	0.0207	0.3284	2,249.1148
Worker	1.6091	0.8262	9.3216	9.5900e-003	1.0206	9.4000e-003	1.0300	0.2721	8.6500e-003	0.2808		968.9637	968.9637	0.1778	0.0935	1,001.2608
Total	**1.9211**	**9.1925**	**14.1872**	**0.0299**	**1.5123**	**0.0331**	**1.5454**	**0.4148**	**0.0313**	**0.4461**		**3,119.7053**	**3,119.7053**	**0.1985**	**0.4219**	**3,250.3756**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3074	8.3201	4.8113	0.0199	0.4918	0.0235	0.5153	0.1427	0.0225	0.1652		2,109.4048	2,109.4048	0.0203	0.3218	2,205.7932
Worker	1.4773	0.7563	8.8671	9.2700e-003	1.0206	8.9100e-003	1.0295	0.2721	8.2000e-003	0.2803		936.7609	936.7609	0.1627	0.0886	967.2367
Total	**1.7848**	**9.0764**	**13.6785**	**0.0292**	**1.5124**	**0.0324**	**1.5448**	**0.4148**	**0.0307**	**0.4455**		**3,046.1658**	**3,046.1658**	**0.1830**	**0.4104**	**3,173.0299**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	2.1267	10.8522	74.6009	0.1142		0.3322	0.3322		0.3322	0.3322	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**2.1267**	**10.8522**	**74.6009**	**0.1142**		**0.3322**	**0.3322**		**0.3322**	**0.3322**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3074	8.3201	4.8113	0.0199	0.4918	0.0235	0.5153	0.1427	0.0225	0.1652		2,109.4048	2,109.4048	0.0203	0.3218	2,205.7932
Worker	1.4773	0.7563	8.8671	9.2700e-003	1.0206	8.9100e-003	1.0295	0.2721	8.2000e-003	0.2803		936.7609	936.7609	0.1627	0.0886	967.2367
Total	**1.7848**	**9.0764**	**13.6785**	**0.0292**	**1.5124**	**0.0324**	**1.5448**	**0.4148**	**0.0307**	**0.4455**		**3,046.1658**	**3,046.1658**	**0.1830**	**0.4104**	**3,173.0299**

3.3 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	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.5444**	**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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0103	0.1158	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.0418	12.0418	2.2100e-003	1.1600e-003	12.4432
Total	**0.0200**	**0.0103**	**0.1158**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.0418**	**12.0418**	**2.2100e-003**	**1.1600e-003**	**12.4432**

3.3 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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9098**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0103	0.1158	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.0418	12.0418	2.2100e-003	1.1600e-003	12.4432
Total	**0.0200**	**0.0103**	**0.1158**	**1.2000e-004**	**0.0127**	**1.2000e-004**	**0.0128**	**3.3800e-003**	**1.1000e-004**	**3.4900e-003**		**12.0418**	**12.0418**	**2.2100e-003**	**1.1600e-003**	**12.4432**

3.4 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	21.7243					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
Total	**21.8952**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2950	0.1510	1.7705	1.8500e-003	0.2038	1.7800e-003	0.2056	0.0543	1.6400e-003	0.0560		187.0418	187.0418	0.0325	0.0177	193.1268
Total	**0.2950**	**0.1510**	**1.7705**	**1.8500e-003**	**0.2038**	**1.7800e-003**	**0.2056**	**0.0543**	**1.6400e-003**	**0.0560**		**187.0418**	**187.0418**	**0.0325**	**0.0177**	**193.1268**

3.4 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	21.7243					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
Total	**21.7541**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2950	0.1510	1.7705	1.8500e-003	0.2038	1.7800e-003	0.2056	0.0543	1.6400e-003	0.0560		187.0418	187.0418	0.0325	0.0177	193.1268
Total	**0.2950**	**0.1510**	**1.7705**	**1.8500e-003**	**0.2038**	**1.7800e-003**	**0.2056**	**0.0543**	**1.6400e-003**	**0.0560**		**187.0418**	**187.0418**	**0.0325**	**0.0177**	**193.1268**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Fast Food Restaurant with Drive Thru	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Industrial Park	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Parking Lot	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Unrefrigerated Warehouse-No Rail	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 2_Mitigated - Tulare County, Winter

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					
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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**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

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Unmitigated	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

Grading -

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
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

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
tblConstructionPhase	NumDays	1,550.00	261.00
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	0.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	24.5960	92.9646	124.7243	0.2196	2.1587	3.5850	5.4994	0.5901	3.3639	3.8888	0.0000	21,213.4442	21,213.4442	4.4474	0.5062	21,470.0640
2028	24.3713	85.5653	113.1404	0.2013	2.1587	3.2190	5.3778	0.5902	3.0313	3.6214	0.0000	19,435.0850	19,435.0850	3.7627	0.4933	19,676.1452
Maximum	**24.5960**	**92.9646**	**124.7243**	**0.2196**	**2.1587**	**3.5850**	**5.4994**	**0.5902**	**3.3639**	**3.8888**	**0.0000**	**21,213.4442**	**21,213.4442**	**4.4474**	**0.5062**	**21,470.0640**

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	19.3359	26.9311	136.5067	0.2196	2.1587	0.5436	2.6709	0.5901	0.5415	1.1001	0.0000	21,213.4442	21,213.4442	4.4474	0.5062	21,470.0640
2028	19.1112	25.8813	122.2284	0.2013	2.1587	0.5112	2.6699	0.5902	0.5090	1.0992	0.0000	19,435.0850	19,435.0850	3.7627	0.4933	19,676.1452
Maximum	**19.3359**	**26.9311**	**136.5067**	**0.2196**	**2.1587**	**0.5436**	**2.6709**	**0.5902**	**0.5415**	**1.1001**	**0.0000**	**21,213.4442**	**21,213.4442**	**4.4474**	**0.5062**	**21,470.0640**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare 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	N20	CO2e
Percent Reduction	21.48	70.42	-8.77	0.00	0.00	84.50	50.90	0.00	83.57	70.72	0.00	0.00	0.00	0.00	0.00	0.00

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

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	N20	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	Building Construction	Building Construction	3/12/2027	3/12/2028	5	261	
2	Paving	Paving	3/12/2027	8/12/2027	5	110	
3	Architectural Coating	Architectural Coating	10/1/2027	3/10/2028	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	52	1,518.00	592.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	304.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**		**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1181**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4267	9.7097	5.7117	0.0243	0.6181	0.0288	0.6469	0.1794	0.0275	0.2069		2,574.0983	2,574.0983	0.0267	0.3918	2,691.5186
Worker	2.5227	0.7501	8.9563	0.0125	1.2835	0.0106	1.2941	0.3422	9.7300e-003	0.3520		1,264.0794	1,264.0794	0.1421	0.0953	1,296.0329
Total	**2.9494**	**10.4598**	**14.6680**	**0.0369**	**1.9017**	**0.0393**	**1.9410**	**0.5216**	**0.0372**	**0.5588**		**3,838.1777**	**3,838.1777**	**0.1688**	**0.4871**	**3,987.5515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9861	15.2485	104.4546	0.1598		0.4668	0.4668		0.4668	0.4668	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	**2.9861**	**15.2485**	**104.4546**	**0.1598**		**0.4668**	**0.4668**		**0.4668**	**0.4668**	**0.0000**	**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1180**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4267	9.7097	5.7117	0.0243	0.6181	0.0288	0.6469	0.1794	0.0275	0.2069		2,574.0983	2,574.0983	0.0267	0.3918	2,691.5186
Worker	2.5227	0.7501	8.9563	0.0125	1.2835	0.0106	1.2941	0.3422	9.7300e-003	0.3520		1,264.0794	1,264.0794	0.1421	0.0953	1,296.0329
Total	**2.9494**	**10.4598**	**14.6680**	**0.0369**	**1.9017**	**0.0393**	**1.9410**	**0.5216**	**0.0372**	**0.5588**		**3,838.1777**	**3,838.1777**	**0.1688**	**0.4871**	**3,987.5515**

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**		**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1181**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4226	9.6677	5.6719	0.0239	0.6181	0.0285	0.6467	0.1794	0.0273	0.2067		2,522.5863	2,522.5863	0.0264	0.3836	2,637.5667
Worker	2.3389	0.6968	8.5560	0.0122	1.2835	9.9400e-003	1.2935	0.3422	9.1400e-003	0.3514		1,228.9136	1,228.9136	0.1312	0.0914	1,259.4139
Total	**2.7615**	**10.3645**	**14.2279**	**0.0360**	**1.9017**	**0.0385**	**1.9402**	**0.5216**	**0.0364**	**0.5581**		**3,751.4999**	**3,751.4999**	**0.1576**	**0.4750**	**3,896.9807**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9861	15.2485	104.4546	0.1598		0.4668	0.4668		0.4668	0.4668	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	**2.9861**	**15.2485**	**104.4546**	**0.1598**		**0.4668**	**0.4668**		**0.4668**	**0.4668**	**0.0000**	**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1180**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4226	9.6677	5.6719	0.0239	0.6181	0.0285	0.6467	0.1794	0.0273	0.2067		2,522.5863	2,522.5863	0.0264	0.3836	2,637.5667
Worker	2.3389	0.6968	8.5560	0.0122	1.2835	9.9400e-003	1.2935	0.3422	9.1400e-003	0.3514		1,228.9136	1,228.9136	0.1312	0.0914	1,259.4139
Total	**2.7615**	**10.3645**	**14.2279**	**0.0360**	**1.9017**	**0.0385**	**1.9402**	**0.5216**	**0.0364**	**0.5581**		**3,751.4999**	**3,751.4999**	**0.1576**	**0.4750**	**3,896.9807**

3.3 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
Total	**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**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0249	7.4100e-003	0.0885	1.2000e-004	0.0127	1.0000e-004	0.0128	3.3800e-003	1.0000e-004	3.4800e-003		12.4909	12.4909	1.4000e-003	9.4000e-004	12.8067
Total	**0.0249**	**7.4100e-003**	**0.0885**	**1.2000e-004**	**0.0127**	**1.0000e-004**	**0.0128**	**3.3800e-003**	**1.0000e-004**	**3.4800e-003**		**12.4909**	**12.4909**	**1.4000e-003**	**9.4000e-004**	**12.8067**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2805**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0249	7.4100e-003	0.0885	1.2000e-004	0.0127	1.0000e-004	0.0128	3.3800e-003	1.0000e-004	3.4800e-003		12.4909	12.4909	1.4000e-003	9.4000e-004	12.8067
Total	**0.0249**	**7.4100e-003**	**0.0885**	**1.2000e-004**	**0.0127**	**1.0000e-004**	**0.0128**	**3.3800e-003**	**1.0000e-004**	**3.4800e-003**		**12.4909**	**12.4909**	**1.4000e-003**	**9.4000e-004**	**12.8067**

3.4 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	12.8655					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
Total	**13.0363**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5052	0.1502	1.7936	2.5000e-003	0.2571	2.1200e-003	0.2592	0.0685	1.9500e-003	0.0705		253.1490	253.1490	0.0285	0.0191	259.5481
Total	**0.5052**	**0.1502**	**1.7936**	**2.5000e-003**	**0.2571**	**2.1200e-003**	**0.2592**	**0.0685**	**1.9500e-003**	**0.0705**		**253.1490**	**253.1490**	**0.0285**	**0.0191**	**259.5481**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	12.8655					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
Total	**12.8952**	**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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5052	0.1502	1.7936	2.5000e-003	0.2571	2.1200e-003	0.2592	0.0685	1.9500e-003	0.0705		253.1490	253.1490	0.0285	0.0191	259.5481
Total	**0.5052**	**0.1502**	**1.7936**	**2.5000e-003**	**0.2571**	**2.1200e-003**	**0.2592**	**0.0685**	**1.9500e-003**	**0.0705**		**253.1490**	**253.1490**	**0.0285**	**0.0191**	**259.5481**

3.4 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	12.8655					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
Total	**13.0363**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4684	0.1396	1.7135	2.4300e-003	0.2571	1.9900e-003	0.2590	0.0685	1.8300e-003	0.0704		246.1066	246.1066	0.0263	0.0183	252.2147
Total	**0.4684**	**0.1396**	**1.7135**	**2.4300e-003**	**0.2571**	**1.9900e-003**	**0.2590**	**0.0685**	**1.8300e-003**	**0.0704**		**246.1066**	**246.1066**	**0.0263**	**0.0183**	**252.2147**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	12.8655					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
Total	**12.8952**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4684	0.1396	1.7135	2.4300e-003	0.2571	1.9900e-003	0.2590	0.0685	1.8300e-003	0.0704		246.1066	246.1066	0.0263	0.0183	252.2147
Total	**0.4684**	**0.1396**	**1.7135**	**2.4300e-003**	**0.2571**	**1.9900e-003**	**0.2590**	**0.0685**	**1.8300e-003**	**0.0704**		**246.1066**	**246.1066**	**0.0263**	**0.0183**	**252.2147**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	0.0000	0.0000	0.0000	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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
City Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Industrial Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Other Non-Asphalt Surfaces	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Unrefrigerated Warehouse-No Rail	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033

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

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare 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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**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

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Unmitigated	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Trips and VMT - Note 10

Grading -

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
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

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

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
tblConstructionPhase	NumDays	1,550.00	261.00
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	0.00

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	23.5773	93.7839	126.6970	0.2186	2.1587	3.5855	5.4999	0.5901	3.3643	3.8893	0.0000	21,114.0916	21,114.0916	4.4923	0.5234	21,376.3344
2028	23.4166	86.3966	115.3778	0.2001	2.1587	3.2195	5.3782	0.5902	3.0317	3.6219	0.0000	19,316.4491	19,316.4491	3.8121	0.5099	19,563.6841
Maximum	**23.5773**	**93.7839**	**126.6970**	**0.2186**	**2.1587**	**3.5855**	**5.4999**	**0.5902**	**3.3643**	**3.8893**	**0.0000**	**21,114.0916**	**21,114.0916**	**4.4923**	**0.5234**	**21,376.3344**

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	18.3171	27.7504	138.4794	0.2186	2.1587	0.5441	2.6714	0.5901	0.5420	1.1006	0.0000	21,114.0916	21,114.0916	4.4923	0.5234	21,376.3344
2028	18.1565	26.7126	124.4658	0.2001	2.1587	0.5117	2.6704	0.5902	0.5095	1.0996	0.0000	19,316.4491	19,316.4491	3.8121	0.5099	19,563.6841
Maximum	**18.3171**	**27.7504**	**138.4794**	**0.2186**	**2.1587**	**0.5441**	**2.6714**	**0.5902**	**0.5420**	**1.1006**	**0.0000**	**21,114.0916**	**21,114.0916**	**4.4923**	**0.5234**	**21,376.3344**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

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	N20	CO2e
Percent Reduction	**22.39**	**69.77**	**-8.62**	**0.00**	**0.00**	**84.48**	**50.89**	**0.00**	**83.56**	**70.71**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

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	N20	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	Building Construction	Building Construction	3/12/2027	3/12/2028	5	261	
2	Paving	Paving	3/12/2027	8/12/2027	5	110	
3	Architectural Coating	Architectural Coating	10/1/2027	3/10/2028	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	52	1,518.00	592.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	304.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**		**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1181**

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3816	10.4001	5.9915	0.0246	0.6181	0.0293	0.6474	0.1794	0.0280	0.2074		2,597.1459	2,597.1459	0.0251	0.3958	2,715.7268
Worker	1.7115	0.8777	10.6326	0.0113	1.2835	0.0106	1.2941	0.3422	9.7300e-003	0.3520		1,142.8769	1,142.8769	0.1881	0.1063	1,179.2491
Total	**2.0931**	**11.2778**	**16.6241**	**0.0359**	**1.9017**	**0.0398**	**1.9415**	**0.5216**	**0.0377**	**0.5593**		**3,740.0227**	**3,740.0227**	**0.2132**	**0.5021**	**3,894.9759**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9861	15.2485	104.4546	0.1598		0.4668	0.4668		0.4668	0.4668	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	**2.9861**	**15.2485**	**104.4546**	**0.1598**		**0.4668**	**0.4668**		**0.4668**	**0.4668**	**0.0000**	**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1180**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3816	10.4001	5.9915	0.0246	0.6181	0.0293	0.6474	0.1794	0.0280	0.2074		2,597.1459	2,597.1459	0.0251	0.3958	2,715.7268
Worker	1.7115	0.8777	10.6326	0.0113	1.2835	0.0106	1.2941	0.3422	9.7300e-003	0.3520		1,142.8769	1,142.8769	0.1881	0.1063	1,179.2491
Total	**2.0931**	**11.2778**	**16.6241**	**0.0359**	**1.9017**	**0.0398**	**1.9415**	**0.5216**	**0.0377**	**0.5593**		**3,740.0227**	**3,740.0227**	**0.2132**	**0.5021**	**3,894.9759**

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	**8.1051**	**73.9158**	**95.3899**	**0.1598**		**3.1271**	**3.1271**		**2.9415**	**2.9415**		**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1181**

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3778	10.3568	5.9481	0.0241	0.6181	0.0290	0.6472	0.1794	0.0278	0.2072		2,545.3029	2,545.3029	0.0248	0.3876	2,661.4266
Worker	1.5808	0.8153	10.1900	0.0110	1.2835	9.9400e-003	1.2935	0.3422	9.1400e-003	0.3514		1,111.1457	1,111.1457	0.1737	0.1019	1,145.8380
Total	**1.9586**	**11.1721**	**16.1381**	**0.0351**	**1.9017**	**0.0390**	**1.9406**	**0.5216**	**0.0369**	**0.5585**		**3,656.4487**	**3,656.4487**	**0.1985**	**0.4895**	**3,807.2646**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9861	15.2485	104.4546	0.1598		0.4668	0.4668		0.4668	0.4668	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	**2.9861**	**15.2485**	**104.4546**	**0.1598**		**0.4668**	**0.4668**		**0.4668**	**0.4668**	**0.0000**	**15,156.0305**	**15,156.0305**	**3.5635**		**15,245.1180**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3778	10.3568	5.9481	0.0241	0.6181	0.0290	0.6472	0.1794	0.0278	0.2072		2,545.3029	2,545.3029	0.0248	0.3876	2,661.4266
Worker	1.5808	0.8153	10.1900	0.0110	1.2835	9.9400e-003	1.2935	0.3422	9.1400e-003	0.3514		1,111.1457	1,111.1457	0.1737	0.1019	1,145.8380
Total	**1.9586**	**11.1721**	**16.1381**	**0.0351**	**1.9017**	**0.0390**	**1.9406**	**0.5216**	**0.0369**	**0.5585**		**3,656.4487**	**3,656.4487**	**0.1985**	**0.4895**	**3,807.2646**

3.3 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
Total	**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**

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0169	8.6700e-003	0.1051	1.1000e-004	0.0127	1.0000e-004	0.0128	3.3800e-003	1.0000e-004	3.4800e-003		11.2933	11.2933	1.8600e-003	1.0500e-003	11.6527
Total	**0.0169**	**8.6700e-003**	**0.1051**	**1.1000e-004**	**0.0127**	**1.0000e-004**	**0.0128**	**3.3800e-003**	**1.0000e-004**	**3.4800e-003**		**11.2933**	**11.2933**	**1.8600e-003**	**1.0500e-003**	**11.6527**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2805**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0169	8.6700e-003	0.1051	1.1000e-004	0.0127	1.0000e-004	0.0128	3.3800e-003	1.0000e-004	3.4800e-003		11.2933	11.2933	1.8600e-003	1.0500e-003	11.6527
Total	**0.0169**	**8.6700e-003**	**0.1051**	**1.1000e-004**	**0.0127**	**1.0000e-004**	**0.0128**	**3.3800e-003**	**1.0000e-004**	**3.4800e-003**		**11.2933**	**11.2933**	**1.8600e-003**	**1.0500e-003**	**11.6527**

3.4 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	12.8655					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
Total	**13.0363**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3428	0.1758	2.1293	2.2600e-003	0.2571	2.1200e-003	0.2592	0.0685	1.9500e-003	0.0705		228.8765	228.8765	0.0377	0.0213	236.1606
Total	**0.3428**	**0.1758**	**2.1293**	**2.2600e-003**	**0.2571**	**2.1200e-003**	**0.2592**	**0.0685**	**1.9500e-003**	**0.0705**		**228.8765**	**228.8765**	**0.0377**	**0.0213**	**236.1606**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	12.8655					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
Total	**12.8952**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3428	0.1758	2.1293	2.2600e-003	0.2571	2.1200e-003	0.2592	0.0685	1.9500e-003	0.0705		228.8765	228.8765	0.0377	0.0213	236.1606
Total	**0.3428**	**0.1758**	**2.1293**	**2.2600e-003**	**0.2571**	**2.1200e-003**	**0.2592**	**0.0685**	**1.9500e-003**	**0.0705**		**228.8765**	**228.8765**	**0.0377**	**0.0213**	**236.1606**

3.4 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	12.8655					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
Total	**13.0363**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3166	0.1633	2.0407	2.2000e-003	0.2571	1.9900e-003	0.2590	0.0685	1.8300e-003	0.0704		222.5219	222.5219	0.0348	0.0204	229.4695
Total	**0.3166**	**0.1633**	**2.0407**	**2.2000e-003**	**0.2571**	**1.9900e-003**	**0.2590**	**0.0685**	**1.8300e-003**	**0.0704**		**222.5219**	**222.5219**	**0.0348**	**0.0204**	**229.4695**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	12.8655					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
Total	**12.8952**	**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**

3.4 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3166	0.1633	2.0407	2.2000e-003	0.2571	1.9900e-003	0.2590	0.0685	1.8300e-003	0.0704		222.5219	222.5219	0.0348	0.0204	229.4695
Total	**0.3166**	**0.1633**	**2.0407**	**2.2000e-003**	**0.2571**	**1.9900e-003**	**0.2590**	**0.0685**	**1.8300e-003**	**0.0704**		**222.5219**	**222.5219**	**0.0348**	**0.0204**	**229.4695**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

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	0.0000	0.0000	0.0000	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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
City Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Industrial Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Other Non-Asphalt Surfaces	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Unrefrigerated Warehouse-No Rail	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033

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

4115.0039 Shirk & Riggin Industrial Park Project LST Construction Phase 3_Mitigated - Tulare County, Winter

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**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

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Unmitigated	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	240.00	Acre	240.00	10,454,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Trips and VMT - Note 10 - Construction

Demolition - Note 4

Grading - Note 4

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

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	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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
tblConstructionPhase	NumDays	300.00	30.00
tblGrading	MaterialImported	0.00	130,000.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	4.9749	48.0794	38.2755	0.0772	19.7200	2.1898	21.9098	10.1152	2.0235	12.1387	0.0000	7,466.8025	7,466.8025	2.2453	0.0353	7,523.7063
2025	2.9836	28.7921	27.0482	0.0642	9.2865	1.1337	10.4202	3.6726	1.0431	4.7157	0.0000	6,236.6001	6,236.6001	1.9479	0.0345	6,295.5785
2026	2.9802	28.7845	27.0384	0.0642	9.2865	1.1337	10.4202	3.6726	1.0431	4.7156	0.0000	6,231.2378	6,231.2378	1.9477	0.0337	6,289.9658
Maximum	**4.9749**	**48.0794**	**38.2755**	**0.0772**	**19.7200**	**2.1898**	**21.9098**	**10.1152**	**2.0235**	**12.1387**	**0.0000**	**7,466.8025**	**7,466.8025**	**2.2453**	**0.0353**	**7,523.7063**

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					
2024	0.9981	4.1568	44.3814	0.0772	8.8894	0.1240	9.0135	4.5560	0.1240	4.6799	0.0000	7,466.8025	7,466.8025	2.2453	0.0353	7,523.7063
2025	0.8439	4.1493	33.7162	0.0642	4.2072	0.1044	4.3115	1.6604	0.1042	1.7646	0.0000	6,236.6001	6,236.6001	1.9479	0.0345	6,295.5785
2026	0.8405	4.1417	33.7064	0.0642	4.2072	0.1043	4.3115	1.6604	0.1042	1.7645	0.0000	6,231.2378	6,231.2378	1.9477	0.0337	6,289.9658
Maximum	**0.9981**	**4.1568**	**44.3814**	**0.0772**	**8.8894**	**0.1240**	**9.0135**	**4.5560**	**0.1240**	**4.6799**	**0.0000**	**7,466.8025**	**7,466.8025**	**2.2453**	**0.0353**	**7,523.7063**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare 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	N20	CO2e
Percent Reduction	75.48	88.22	-21.05	0.00	54.81	92.54	58.75	54.89	91.91	61.94	0.00	0.00	0.00	0.00	0.00	0.00

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
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
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**	**0.0000**	**0.0559**

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
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
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**	**0.0000**	**0.0559**

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	N20	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	3/14/2024	4/24/2024	5	30	
2	Site Preparation	Site Preparation	3/14/2024	11/20/2024	5	180	
3	Grading	Grading	11/21/2024	9/2/2026	5	465	

Acres of Grading (Site Preparation Phase): 270

Acres of Grading (Grading Phase): 1395

Acres of Paving: 240

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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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	6	15.00	0.00	5.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	16,250.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					0.0350	0.0000	0.0350	5.2900e-003	0.0000	5.2900e-003			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**0.0350**	**0.9602**	**0.9951**	**5.2900e-003**	**0.8922**	**0.8975**		**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	lb/day										lb/day					
Hauling	2.1000e-004	4.0200e-003	2.8100e-003	1.0000e-005	1.6000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005		1.0264	1.0264	1.0000e-005	1.6000e-004	1.0748
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.6400e-003	0.1044	1.4000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.7925	13.7925	1.8300e-003	1.1000e-003	14.1671
Total	**0.0321**	**0.0137**	**0.1072**	**1.5000e-004**	**0.0128**	**1.3000e-004**	**0.0130**	**3.4300e-003**	**1.2000e-004**	**3.5500e-003**		**14.8189**	**14.8189**	**1.8400e-003**	**1.2600e-003**	**15.2419**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0157	0.0000	0.0157	2.3800e-003	0.0000	2.3800e-003			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**	**0.0157**	**0.0616**	**0.0774**	**2.3800e-003**	**0.0616**	**0.0640**	**0.0000**	**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	lb/day										lb/day					
Hauling	2.1000e-004	4.0200e-003	2.8100e-003	1.0000e-005	1.6000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005		1.0264	1.0264	1.0000e-005	1.6000e-004	1.0748
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.6400e-003	0.1044	1.4000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		13.7925	13.7925	1.8300e-003	1.1000e-003	14.1671
Total	**0.0321**	**0.0137**	**0.1072**	**1.5000e-004**	**0.0128**	**1.3000e-004**	**0.0130**	**3.4300e-003**	**1.2000e-004**	**3.5500e-003**		**14.8189**	**14.8189**	**1.8400e-003**	**1.2600e-003**	**15.2419**

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**19.6570**	**1.2294**	**20.8864**	**10.1025**	**1.1310**	**11.2335**		**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare 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 Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0382	0.0116	0.1253	1.6000e-004	0.0152	1.5000e-004	0.0154	4.0600e-003	1.4000e-004	4.1900e-003		16.5509	16.5509	2.1900e-003	1.3200e-003	17.0005
Total	**0.0382**	**0.0116**	**0.1253**	**1.6000e-004**	**0.0152**	**1.5000e-004**	**0.0154**	**4.0600e-003**	**1.4000e-004**	**4.1900e-003**		**16.5509**	**16.5509**	**2.1900e-003**	**1.3200e-003**	**17.0005**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**0.4656**	**2.0175**	**20.8690**	**0.0381**	**8.8457**	**0.0621**	**8.9077**	**4.5461**	**0.0621**	**4.6082**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0382	0.0116	0.1253	1.6000e-004	0.0152	1.5000e-004	0.0154	4.0600e-003	1.4000e-004	4.1900e-003		16.5509	16.5509	2.1900e-003	1.3200e-003	17.0005
Total	**0.0382**	**0.0116**	**0.1253**	**1.6000e-004**	**0.0152**	**1.5000e-004**	**0.0154**	**4.0600e-003**	**1.4000e-004**	**4.1900e-003**		**16.5509**	**16.5509**	**2.1900e-003**	**1.3200e-003**	**17.0005**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**9.2352**	**1.3354**	**10.5706**	**3.6585**	**1.2286**	**4.8871**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

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	lb/day										lb/day					
Hauling	0.0436	0.8439	0.5891	2.0300e-003	0.0344	2.6800e-003	0.0371	9.5000e-003	2.5600e-003	0.0121		215.2152	215.2152	2.4800e-003	0.0339	225.3632
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0425	0.0129	0.1392	1.8000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.5000e-004	4.6600e-003		18.3899	18.3899	2.4400e-003	1.4700e-003	18.8894
Total	**0.0861**	**0.8567**	**0.7284**	**2.2100e-003**	**0.0513**	**2.8400e-003**	**0.0542**	**0.0140**	**2.7100e-003**	**0.0167**		**233.6051**	**233.6051**	**4.9200e-003**	**0.0353**	**244.2527**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**0.7616**	**3.3000**	**32.9991**	**0.0621**	**4.1558**	**0.1015**	**4.2574**	**1.6463**	**0.1015**	**1.7479**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare 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 Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0436	0.8439	0.5891	2.0300e-003	0.0344	2.6800e-003	0.0371	9.5000e-003	2.5600e-003	0.0121		215.2152	215.2152	2.4800e-003	0.0339	225.3632
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0425	0.0129	0.1392	1.8000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.5000e-004	4.6600e-003		18.3899	18.3899	2.4400e-003	1.4700e-003	18.8894
Total	**0.0861**	**0.8567**	**0.7284**	**2.2100e-003**	**0.0513**	**2.8400e-003**	**0.0542**	**0.0140**	**2.7100e-003**	**0.0167**		**233.6051**	**233.6051**	**4.9200e-003**	**0.0353**	**244.2527**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**9.2352**	**1.1309**	**10.3661**	**3.6585**	**1.0404**	**4.6990**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

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	lb/day										lb/day					
Hauling	0.0433	0.8375	0.5860	1.9900e-003	0.0344	2.6600e-003	0.0371	9.5000e-003	2.5500e-003	0.0121		210.5558	210.5558	2.4500e-003	0.0331	220.4847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0390	0.0117	0.1311	1.8000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.4000e-004	4.6500e-003		17.7629	17.7629	2.2200e-003	1.3900e-003	18.2323
Total	**0.0823**	**0.8492**	**0.7171**	**2.1700e-003**	**0.0513**	**2.8200e-003**	**0.0541**	**0.0140**	**2.6900e-003**	**0.0167**		**228.3187**	**228.3187**	**4.6700e-003**	**0.0345**	**238.7170**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			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
Total	**0.7616**	**3.3000**	**32.9991**	**0.0621**	**4.1558**	**0.1015**	**4.2574**	**1.6463**	**0.1015**	**1.7479**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

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	lb/day										lb/day					
Hauling	0.0433	0.8375	0.5860	1.9900e-003	0.0344	2.6600e-003	0.0371	9.5000e-003	2.5500e-003	0.0121		210.5558	210.5558	2.4500e-003	0.0331	220.4847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0390	0.0117	0.1311	1.8000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.4000e-004	4.6500e-003		17.7629	17.7629	2.2200e-003	1.3900e-003	18.2323
Total	**0.0823**	**0.8492**	**0.7171**	**2.1700e-003**	**0.0513**	**2.8200e-003**	**0.0541**	**0.0140**	**2.6900e-003**	**0.0167**		**228.3187**	**228.3187**	**4.6700e-003**	**0.0345**	**238.7170**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**9.2352**	**1.1309**	**10.3661**	**3.6585**	**1.0404**	**4.6990**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare 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 Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0430	0.8309	0.5830	1.9400e-003	0.0344	2.6400e-003	0.0370	9.5000e-003	2.5200e-003	0.0120		205.7865	205.7865	2.4300e-003	0.0324	215.4912
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0360	0.0107	0.1242	1.7000e-004	0.0169	1.5000e-004	0.0171	4.5100e-003	1.4000e-004	4.6400e-003		17.1699	17.1699	2.0400e-003	1.3200e-003	17.6132
Total	**0.0790**	**0.8416**	**0.7073**	**2.1100e-003**	**0.0513**	**2.7900e-003**	**0.0541**	**0.0140**	**2.6600e-003**	**0.0167**		**222.9564**	**222.9564**	**4.4700e-003**	**0.0337**	**233.1044**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			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
Total	**0.7616**	**3.3000**	**32.9991**	**0.0621**	**4.1558**	**0.1015**	**4.2574**	**1.6463**	**0.1015**	**1.7479**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare 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 Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0430	0.8309	0.5830	1.9400e-003	0.0344	2.6400e-003	0.0370	9.5000e-003	2.5200e-003	0.0120		205.7865	205.7865	2.4300e-003	0.0324	215.4912
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0360	0.0107	0.1242	1.7000e-004	0.0169	1.5000e-004	0.0171	4.5100e-003	1.4000e-004	4.6400e-003		17.1699	17.1699	2.0400e-003	1.3200e-003	17.6132
Total	**0.0790**	**0.8416**	**0.7073**	**2.1100e-003**	**0.0513**	**2.7900e-003**	**0.0541**	**0.0140**	**2.6600e-003**	**0.0167**		**222.9564**	**222.9564**	**4.4700e-003**	**0.0337**	**233.1044**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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					
Parking Lot	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
Total		**0.0000**	**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

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					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Unmitigated	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare 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	1.1948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2500e-003	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**		**0.0559**

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	1.1948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2500e-003	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**		**0.0559**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	240.00	Acre	240.00	10,454,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Trips and VMT - Note 10 - Construction

Demolition - Note 4

Grading - Note 4

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

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	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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
tblConstructionPhase	NumDays	300.00	30.00
tblGrading	MaterialImported	0.00	130,000.00
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	HaulingTripLength	20.00	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	VendorTripLength	7.30	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10
tblTripsAndVMT	WorkerTripLength	10.80	1.10

2.0 Emissions Summary

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	4.9529	48.0833	38.3150	0.0772	19.7200	2.1898	21.9098	10.1152	2.0235	12.1387	0.0000	7,463.8933	7,463.8933	2.2466	0.0359	7,520.9137
2025	2.9658	28.8624	27.0898	0.0642	9.2865	1.1338	10.4203	3.6726	1.0432	4.7157	0.0000	6,237.5958	6,237.5958	1.9484	0.0351	6,296.7602
2026	2.9633	28.8543	27.0791	0.0642	9.2865	1.1337	10.4203	3.6726	1.0431	4.7157	0.0000	6,232.2465	6,232.2465	1.9481	0.0343	6,291.1543
Maximum	**4.9529**	**48.0833**	**38.3150**	**0.0772**	**19.7200**	**2.1898**	**21.9098**	**10.1152**	**2.0235**	**12.1387**	**0.0000**	**7,463.8933**	**7,463.8933**	**2.2466**	**0.0359**	**7,520.9137**

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					
2024	0.9761	4.2276	44.4208	0.0772	8.8894	0.1240	9.0135	4.5560	0.1240	4.6799	0.0000	7,463.8933	7,463.8933	2.2466	0.0359	7,520.9137
2025	0.8261	4.2196	33.7579	0.0642	4.2072	0.1044	4.3116	1.6604	0.1043	1.7646	0.0000	6,237.5958	6,237.5958	1.9484	0.0351	6,296.7602
2026	0.8236	4.2114	33.7472	0.0642	4.2072	0.1044	4.3115	1.6604	0.1043	1.7646	0.0000	6,232.2464	6,232.2464	1.9481	0.0343	6,291.1543
Maximum	**0.9761**	**4.2276**	**44.4208**	**0.0772**	**8.8894**	**0.1240**	**9.0135**	**4.5560**	**0.1240**	**4.6799**	**0.0000**	**7,463.8933**	**7,463.8933**	**2.2466**	**0.0359**	**7,520.9137**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	N20	CO2e
Percent Reduction	75.87	88.04	-21.02	0.00	54.81	92.53	58.75	54.89	91.91	61.94	0.00	0.00	0.00	0.00	0.00	0.00

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
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
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**	**0.0000**	**0.0559**

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
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
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**	**0.0000**	**0.0559**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	N20	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	3/14/2024	4/24/2024	5	30	
2	Site Preparation	Site Preparation	3/14/2024	11/20/2024	5	180	
3	Grading	Grading	11/21/2024	9/2/2026	5	465	

Acres of Grading (Site Preparation Phase): 270

Acres of Grading (Grading Phase): 1395

Acres of Paving: 240

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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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	6	15.00	0.00	5.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	16,250.00	1.10	1.10	1.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					0.0350	0.0000	0.0350	5.2900e-003	0.0000	5.2900e-003			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**0.0350**	**0.9602**	**0.9951**	**5.2900e-003**	**0.8922**	**0.8975**		**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	lb/day										lb/day					
Hauling	1.8000e-004	4.3500e-003	2.9000e-003	1.0000e-005	1.6000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005		1.0395	1.0395	1.0000e-005	1.6000e-004	1.0885
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0113	0.1223	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.4641	12.4641	2.4200e-003	1.2300e-003	12.8915
Total	**0.0220**	**0.0156**	**0.1252**	**1.3000e-004**	**0.0128**	**1.3000e-004**	**0.0130**	**3.4300e-003**	**1.2000e-004**	**3.5500e-003**		**13.5036**	**13.5036**	**2.4300e-003**	**1.3900e-003**	**13.9800**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0157	0.0000	0.0157	2.3800e-003	0.0000	2.3800e-003			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**	**0.0157**	**0.0616**	**0.0774**	**2.3800e-003**	**0.0616**	**0.0640**	**0.0000**	**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	lb/day										lb/day					
Hauling	1.8000e-004	4.3500e-003	2.9000e-003	1.0000e-005	1.6000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005		1.0395	1.0395	1.0000e-005	1.6000e-004	1.0885
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0113	0.1223	1.2000e-004	0.0127	1.2000e-004	0.0128	3.3800e-003	1.1000e-004	3.4900e-003		12.4641	12.4641	2.4200e-003	1.2300e-003	12.8915
Total	**0.0220**	**0.0156**	**0.1252**	**1.3000e-004**	**0.0128**	**1.3000e-004**	**0.0130**	**3.4300e-003**	**1.2000e-004**	**3.5500e-003**		**13.5036**	**13.5036**	**2.4300e-003**	**1.3900e-003**	**13.9800**

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**19.6570**	**1.2294**	**20.8864**	**10.1025**	**1.1310**	**11.2335**		**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0262	0.0135	0.1468	1.5000e-004	0.0152	1.5000e-004	0.0154	4.0600e-003	1.4000e-004	4.1900e-003		14.9570	14.9570	2.9100e-003	1.4800e-003	15.4698
Total	**0.0262**	**0.0135**	**0.1468**	**1.5000e-004**	**0.0152**	**1.5000e-004**	**0.0154**	**4.0600e-003**	**1.4000e-004**	**4.1900e-003**		**14.9570**	**14.9570**	**2.9100e-003**	**1.4800e-003**	**15.4698**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**0.4656**	**2.0175**	**20.8690**	**0.0381**	**8.8457**	**0.0621**	**8.9077**	**4.5461**	**0.0621**	**4.6082**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0262	0.0135	0.1468	1.5000e-004	0.0152	1.5000e-004	0.0154	4.0600e-003	1.4000e-004	4.1900e-003		14.9570	14.9570	2.9100e-003	1.4800e-003	15.4698
Total	**0.0262**	**0.0135**	**0.1468**	**1.5000e-004**	**0.0152**	**1.5000e-004**	**0.0154**	**4.0600e-003**	**1.4000e-004**	**4.1900e-003**		**14.9570**	**14.9570**	**2.9100e-003**	**1.4800e-003**	**15.4698**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**9.2352**	**1.3354**	**10.5706**	**3.6585**	**1.2286**	**4.8871**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

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	lb/day										lb/day					
Hauling	0.0381	0.9125	0.6076	2.0600e-003	0.0344	2.7400e-003	0.0371	9.5000e-003	2.6200e-003	0.0121		217.9627	217.9627	2.2200e-003	0.0343	228.2331
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0150	0.1631	1.6000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.5000e-004	4.6600e-003		16.6188	16.6188	3.2300e-003	1.6400e-003	17.1887
Total	**0.0672**	**0.9275**	**0.7707**	**2.2200e-003**	**0.0513**	**2.9000e-003**	**0.0542**	**0.0140**	**2.7700e-003**	**0.0168**		**234.5815**	**234.5815**	**5.4500e-003**	**0.0359**	**245.4217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**0.7616**	**3.3000**	**32.9991**	**0.0621**	**4.1558**	**0.1015**	**4.2574**	**1.6463**	**0.1015**	**1.7479**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

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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	lb/day										lb/day					
Hauling	0.0381	0.9125	0.6076	2.0600e-003	0.0344	2.7400e-003	0.0371	9.5000e-003	2.6200e-003	0.0121		217.9627	217.9627	2.2200e-003	0.0343	228.2331
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0150	0.1631	1.6000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.5000e-004	4.6600e-003		16.6188	16.6188	3.2300e-003	1.6400e-003	17.1887
Total	**0.0672**	**0.9275**	**0.7707**	**2.2200e-003**	**0.0513**	**2.9000e-003**	**0.0542**	**0.0140**	**2.7700e-003**	**0.0168**		**234.5815**	**234.5815**	**5.4500e-003**	**0.0359**	**245.4217**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**9.2352**	**1.1309**	**10.3661**	**3.6585**	**1.0404**	**4.6990**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	lb/day										lb/day					
Hauling	0.0379	0.9059	0.6043	2.0100e-003	0.0344	2.7200e-003	0.0371	9.5000e-003	2.6000e-003	0.0121		213.2587	213.2587	2.2000e-003	0.0335	223.3079
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0267	0.0137	0.1545	1.6000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.4000e-004	4.6500e-003		16.0557	16.0557	2.9500e-003	1.5500e-003	16.5909
Total	**0.0645**	**0.9195**	**0.7587**	**2.1700e-003**	**0.0513**	**2.8800e-003**	**0.0542**	**0.0140**	**2.7400e-003**	**0.0168**		**229.3144**	**229.3144**	**5.1500e-003**	**0.0351**	**239.8988**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			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
Total	**0.7616**	**3.3000**	**32.9991**	**0.0621**	**4.1558**	**0.1015**	**4.2574**	**1.6463**	**0.1015**	**1.7479**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

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	lb/day										lb/day					
Hauling	0.0379	0.9059	0.6043	2.0100e-003	0.0344	2.7200e-003	0.0371	9.5000e-003	2.6000e-003	0.0121		213.2587	213.2587	2.2000e-003	0.0335	223.3079
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0267	0.0137	0.1545	1.6000e-004	0.0169	1.6000e-004	0.0171	4.5100e-003	1.4000e-004	4.6500e-003		16.0557	16.0557	2.9500e-003	1.5500e-003	16.5909
Total	**0.0645**	**0.9195**	**0.7587**	**2.1700e-003**	**0.0513**	**2.8800e-003**	**0.0542**	**0.0140**	**2.7400e-003**	**0.0168**		**229.3144**	**229.3144**	**5.1500e-003**	**0.0351**	**239.8988**

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					9.2352	0.0000	9.2352	3.6585	0.0000	3.6585			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
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**9.2352**	**1.1309**	**10.3661**	**3.6585**	**1.0404**	**4.6990**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	lb/day										lb/day					
Hauling	0.0376	0.8989	0.6011	1.9700e-003	0.0344	2.6900e-003	0.0371	9.5000e-003	2.5800e-003	0.0121		208.4429	208.4429	2.1700e-003	0.0328	218.2657
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0125	0.1469	1.5000e-004	0.0169	1.5000e-004	0.0171	4.5100e-003	1.4000e-004	4.6400e-003		15.5221	15.5221	2.7000e-003	1.4700e-003	16.0271
Total	**0.0621**	**0.9114**	**0.7481**	**2.1200e-003**	**0.0513**	**2.8400e-003**	**0.0542**	**0.0140**	**2.7200e-003**	**0.0167**		**223.9650**	**223.9650**	**4.8700e-003**	**0.0343**	**234.2928**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.1558	0.0000	4.1558	1.6463	0.0000	1.6463			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
Total	**0.7616**	**3.3000**	**32.9991**	**0.0621**	**4.1558**	**0.1015**	**4.2574**	**1.6463**	**0.1015**	**1.7479**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	lb/day										lb/day					
Hauling	0.0376	0.8989	0.6011	1.9700e-003	0.0344	2.6900e-003	0.0371	9.5000e-003	2.5800e-003	0.0121		208.4429	208.4429	2.1700e-003	0.0328	218.2657
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0125	0.1469	1.5000e-004	0.0169	1.5000e-004	0.0171	4.5100e-003	1.4000e-004	4.6400e-003		15.5221	15.5221	2.7000e-003	1.4700e-003	16.0271
Total	**0.0621**	**0.9114**	**0.7481**	**2.1200e-003**	**0.0513**	**2.8400e-003**	**0.0542**	**0.0140**	**2.7200e-003**	**0.0167**		**223.9650**	**223.9650**	**4.8700e-003**	**0.0343**	**234.2928**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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					
Parking Lot	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
Total		**0.0000**	**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

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					
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Unmitigated	4.9000	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559

4115.0039 Shirk & Riggin Industrial Park Project - Mitigated LST Con Demo, Site Prep, Grading - Tulare County, Winter

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	1.1948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2500e-003	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**		**0.0559**

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	1.1948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2500e-003	2.2000e-004	0.0244	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0525	0.0525	1.4000e-004		0.0559
Total	**4.9000**	**2.2000e-004**	**0.0244**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0525**	**0.0525**	**1.4000e-004**		**0.0559**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Shirk and Riggin Industrial Park-Operation_Phase1 Passenger Vehicles+Area Energy Only - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk and Riggin Industrial Park-Operation_Phase1 Passenger Vehicles+Area Energy Only

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1,864.70	1000sqft	42.81	1,864,700.00	0
Parking Lot	75.19	Acre	75.19	3,275,276.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 5

Off-road Equipment - Note 5

Trips and VMT - Note 5

Architectural Coating - Note 5

Vehicle Trips - Note 7

Area Coating - Note 6

Fleet Mix - Note 7

Shirk and Riggin Industrial Park-Operation_Phase1 Passenger Vehicles+Area Energy Only - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	932,350.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,797,050.00	0.00
tblArchitecturalCoating	ConstArea_Parking	196,517.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblConstructionPhase	NumDays	220.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.52	0.57
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.7360e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.17	0.19
tblFleetMix	MH	3.4400e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.3400e-004	0.00
tblFleetMix	SBUS	1.4300e-003	0.00
tblFleetMix	UBUS	4.7000e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	432.00	0.00
tblVehicleTrips	ST_TR	2.54	2.80
tblVehicleTrips	SU_TR	1.24	2.80
tblVehicleTrips	WD_TR	3.37	2.80

2.0 Emissions Summary

Shirk and Riggin Industrial Park-Operation_Phase1 Passenger Vehicles+Area Energy Only - Tulare 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					
2039	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2039	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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)

Shirk and Riggin Industrial Park-Operation_Phase1 Passenger Vehicles+Area Energy Only - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

		Highest		

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	7.9964	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Energy	0.1299	1.1810	0.9920	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	4,412.2910	4,412.2910	0.2885	0.0556	4,436.0608
Mobile	1.3966	1.2577	15.0310	0.0431	5.0418	0.0227	5.0645	1.3396	0.0209	1.3605	0.0000	3,950.6339	3,950.6339	0.1394	0.1264	3,991.7819
Waste						0.0000	0.0000		0.0000	0.0000	469.3618	0.0000	469.3618	27.7385	0.0000	1,162.8240
Water						0.0000	0.0000		0.0000	0.0000	136.8036	413.7981	550.6018	14.0860	0.3360	1,002.8818
Total	**9.5229**	**2.4388**	**16.0408**	**0.0502**	**5.0418**	**0.1125**	**5.1543**	**1.3396**	**0.1107**	**1.4503**	**606.1654**	**8,776.7578**	**9,382.9232**	**42.2525**	**0.5180**	**10,593.5854**

Shirk and Riggin Industrial Park-Operation_Phase1 Passenger Vehicles+Area Energy Only - Tulare 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	7.9964	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Energy	0.1299	1.1810	0.9920	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	4,412.2910	4,412.2910	0.2885	0.0556	4,436.0608
Mobile	1.3966	1.2577	15.0310	0.0431	5.0418	0.0227	5.0645	1.3396	0.0209	1.3605	0.0000	3,950.6339	3,950.6339	0.1394	0.1264	3,991.7819
Waste						0.0000	0.0000		0.0000	0.0000	469.3618	0.0000	469.3618	27.7385	0.0000	1,162.8240
Water						0.0000	0.0000		0.0000	0.0000	136.8036	413.7981	550.6018	14.0860	0.3360	1,002.8818
Total	**9.5229**	**2.4388**	**16.0408**	**0.0502**	**5.0418**	**0.1125**	**5.1543**	**1.3396**	**0.1107**	**1.4503**	**606.1654**	**8,776.7578**	**9,382.9232**	**42.2525**	**0.5180**	**10,593.5854**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Architectural Coating	Architectural Coating	5/5/2039	5/4/2039	5	0	

Acres of Grading (Site Preparation Phase): 0

Shirk and Riggin Industrial Park-Operation_Phase1 Passenger Vehicles+Area Energy Only - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 75.19

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

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	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Architectural Coating - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Architectural Coating - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	1.3966	1.2577	15.0310	0.0431	5.0418	0.0227	5.0645	1.3396	0.0209	1.3605	0.0000	3,950.6339	3,950.6339	0.1394	0.1264	3,991.7819
Unmitigated	1.3966	1.2577	15.0310	0.0431	5.0418	0.0227	5.0645	1.3396	0.0209	1.3605	0.0000	3,950.6339	3,950.6339	0.1394	0.1264	3,991.7819

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	5,221.16	5,221.16	5221.16	13,688,985	13,688,985
Parking Lot	0.00	0.00	0.00		
Total	5,221.16	5,221.16	5,221.16	13,688,985	13,688,985

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.572333	0.056615	0.185023	0.186030	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

5.0 Energy Detail

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	3,126.6542	3,126.6542	0.2639	0.0320	3,142.7841
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,126.6542	3,126.6542	0.2639	0.0320	3,142.7841
NaturalGas Mitigated	0.1299	1.1810	0.9920	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,285.6368	1,285.6368	0.0246	0.0236	1,293.2767
NaturalGas Unmitigated	0.1299	1.1810	0.9920	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,285.6368	1,285.6368	0.0246	0.0236	1,293.2767

Shirk and Riggin Industrial Park-Operation_Phase1 Passenger Vehicles+Area Energy Only - Tulare 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 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					
Industrial Park	2.40919e+007	0.1299	1.1810	0.9920	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,285.6368	1,285.6368	0.0246	0.0236	1,293.2767
Parking Lot	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
Total		**0.1299**	**1.1810**	**0.9920**	**7.0900e-003**		**0.0898**	**0.0898**		**0.0898**	**0.0898**	**0.0000**	**1,285.6368**	**1,285.6368**	**0.0246**	**0.0236**	**1,293.2767**

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	tons/yr										MT/yr					
Industrial Park	2.40919e+007	0.1299	1.1810	0.9920	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,285.6368	1,285.6368	0.0246	0.0236	1,293.2767
Parking Lot	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
Total		**0.1299**	**1.1810**	**0.9920**	**7.0900e-003**		**0.0898**	**0.0898**		**0.0898**	**0.0898**	**0.0000**	**1,285.6368**	**1,285.6368**	**0.0246**	**0.0236**	**1,293.2767**

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			
Industrial Park	1.64839e+007	2,923.3547	0.2467	0.0299	2,938.4358
Parking Lot	1.14635e+006	203.2995	0.0172	2.0800e-003	204.3483
Total		**3,126.6542**	**0.2639**	**0.0320**	**3,142.7841**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	1.64839e+007	2,923.3547	0.2467	0.0299	2,938.4358
Parking Lot	1.14635e+006	203.2995	0.0172	2.0800e-003	204.3483
Total		**3,126.6542**	**0.2639**	**0.0320**	**3,142.7841**

6.0 Area Detail

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	tons/yr										MT/yr					
Mitigated	7.9964	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Unmitigated	7.9964	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369

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	0.5005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.4943					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Total	**7.9964**	**1.6000e-004**	**0.0178**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

Shirk and Riggin Industrial Park-Operation_Phase1 Passenger Vehicles+Area Energy Only - Tulare 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	0.5005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.4943					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.6400e-003	1.6000e-004	0.0178	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0347	0.0347	9.0000e-005	0.0000	0.0369
Total	**7.9964**	**1.6000e-004**	**0.0178**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0347**	**0.0347**	**9.0000e-005**	**0.0000**	**0.0369**

7.0 Water Detail

7.1 Mitigation Measures Water

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	550.6018	14.0860	0.3360	1,002.8818
Unmitigated	550.6018	14.0860	0.3360	1,002.8818

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	431.212 / 0	550.6018	14.0860	0.3360	1,002.8818
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**550.6018**	**14.0860**	**0.3360**	**1,002.8818**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	431.212 / 0	550.6018	14.0860	0.3360	1,002.8818
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**550.6018**	**14.0860**	**0.3360**	**1,002.8818**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	469.3618	27.7385	0.0000	1,162.8240
Unmitigated	469.3618	27.7385	0.0000	1,162.8240

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	2312.23	469.3618	27.7385	0.0000	1,162.8240
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**469.3618**	**27.7385**	**0.0000**	**1,162.8240**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	2312.23	469.3618	27.7385	0.0000	1,162.8240
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**469.3618**	**27.7385**	**0.0000**	**1,162.8240**

9.0 Operational Offroad

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

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

11.0 Vegetation

Shirk & Riggin Industrial Park Project Phase 2 Operation Passenger Vehicles and Area Energy Only - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk & Riggin Industrial Park Project Phase 2 Operation Passenger Vehicles and Area Energy Only

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 5

Off-road Equipment - Note 5

Off-road Equipment - Note 3

Trips and VMT - Note 5

Grading -

Architectural Coating - Note 5

Shirk & Riggin Industrial Park Project Phase 2 Operation Passenger Vehicles and Area Energy Only - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - Note 7

Consumer Products -

Area Coating - Note 6

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Fleet Mix - Note 7

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	421,699.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,265,097.00	0.00
tblArchitecturalCoating	ConstArea_Parking	121,898.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT1	0.05	0.06

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.4800e-003	0.00
tblFleetMix	LHD2	7.4800e-003	0.00
tblFleetMix	LHD2	7.4800e-003	0.00
tblFleetMix	LHD2	7.4800e-003	0.00
tblFleetMix	LHD2	7.4800e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.16	0.18
tblFleetMix	MDV	0.16	0.18
tblFleetMix	MDV	0.16	0.18
tblFleetMix	MDV	0.16	0.18
tblFleetMix	MDV	0.16	0.18
tblFleetMix	MH	3.2960e-003	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	MH	3.2960e-003	0.00
tblFleetMix	MH	3.2960e-003	0.00
tblFleetMix	MH	3.2960e-003	0.00
tblFleetMix	MH	3.2960e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.3960e-003	0.00
tblFleetMix	SBUS	1.3960e-003	0.00
tblFleetMix	SBUS	1.3960e-003	0.00
tblFleetMix	SBUS	1.3960e-003	0.00
tblFleetMix	SBUS	1.3960e-003	0.00
tblFleetMix	UBUS	4.6900e-004	0.00
tblFleetMix	UBUS	4.6900e-004	0.00
tblFleetMix	UBUS	4.6900e-004	0.00
tblFleetMix	UBUS	4.6900e-004	0.00
tblFleetMix	UBUS	4.6900e-004	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	241.00	0.00
tblVehicleTrips	ST_TR	624.20	718.26

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	616.12	467.48
tblVehicleTrips	ST_TR	2.54	2.80
tblVehicleTrips	ST_TR	1.74	2.80
tblVehicleTrips	SU_TR	624.20	718.26
tblVehicleTrips	SU_TR	472.58	467.48
tblVehicleTrips	SU_TR	1.24	2.80
tblVehicleTrips	SU_TR	1.74	2.80
tblVehicleTrips	WD_TR	624.20	718.26
tblVehicleTrips	WD_TR	470.95	467.48
tblVehicleTrips	WD_TR	3.37	2.80
tblVehicleTrips	WD_TR	1.74	2.80

2.0 Emissions Summary

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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					
2030	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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)

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

		Highest		

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	3.6638	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Energy	0.0722	0.6567	0.5516	3.9400e-003		0.0499	0.0499		0.0499	0.0499	0.0000	2,203.0140	2,203.0140	0.1393	0.0283	2,214.9392
Mobile	2.3758	1.4183	17.0326	0.0361	4.2300	0.0221	4.2521	1.1239	0.0203	1.1443	0.0000	3,312.7181	3,312.7181	0.2134	0.1536	3,363.8138
Waste						0.0000	0.0000		0.0000	0.0000	205.6847	0.0000	205.6847	12.1556	0.0000	509.5750
Water						0.0000	0.0000		0.0000	0.0000	61.5898	186.5745	248.1642	6.3416	0.1513	451.7847
Total	**6.1119**	**2.0751**	**17.5924**	**0.0401**	**4.2300**	**0.0720**	**4.3021**	**1.1239**	**0.0703**	**1.1942**	**267.2744**	**5,702.3225**	**5,969.5969**	**18.8500**	**0.3332**	**6,540.1296**

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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	3.6638	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Energy	0.0722	0.6567	0.5516	3.9400e-003		0.0499	0.0499		0.0499	0.0499	0.0000	2,203.0140	2,203.0140	0.1393	0.0283	2,214.9392
Mobile	2.3758	1.4183	17.0326	0.0361	4.2300	0.0221	4.2521	1.1239	0.0203	1.1443	0.0000	3,312.7181	3,312.7181	0.2134	0.1536	3,363.8138
Waste						0.0000	0.0000		0.0000	0.0000	205.6847	0.0000	205.6847	12.1556	0.0000	509.5750
Water						0.0000	0.0000		0.0000	0.0000	61.5898	186.5745	248.1642	6.3416	0.1513	451.7847
Total	**6.1119**	**2.0751**	**17.5924**	**0.0401**	**4.2300**	**0.0720**	**4.3021**	**1.1239**	**0.0703**	**1.1942**	**267.2744**	**5,702.3225**	**5,969.5969**	**18.8500**	**0.3332**	**6,540.1296**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Architectural Coating	Architectural Coating	3/29/2030	3/28/2030	5	0	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

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
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48

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	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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3.2 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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 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	2.3758	1.4183	17.0326	0.0361	4.2300	0.0221	4.2521	1.1239	0.0203	1.1443	0.0000	3,312.7181	3,312.7181	0.2134	0.1536	3,363.8138
Unmitigated	2.3758	1.4183	17.0326	0.0361	4.2300	0.0221	4.2521	1.1239	0.0203	1.1443	0.0000	3,312.7181	3,312.7181	0.2134	0.1536	3,363.8138

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	5,688.62	5,688.62	5688.62	3,051,399	3,051,399
Fast Food Restaurant with Drive Thru	2,215.86	2,215.86	2215.86	2,070,329	2,070,329
Industrial Park	1,437.07	1,437.07	1437.07	3,767,756	3,767,756
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	889.00	889.00	889.00	2,595,445	2,595,445
Total	10,230.55	10,230.55	10,230.55	11,484,930	11,484,930

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50

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	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.579336	0.056661	0.185041	0.178962	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Fast Food Restaurant with Drive Thru	0.579336	0.056661	0.185041	0.178962	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Industrial Park	0.579336	0.056661	0.185041	0.178962	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.579336	0.056661	0.185041	0.178962	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.579336	0.056661	0.185041	0.178962	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,488.1320	1,488.1320	0.1256	0.0152	1,495.8090
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,488.1320	1,488.1320	0.1256	0.0152	1,495.8090
NaturalGas Mitigated	0.0722	0.6567	0.5516	3.9400e-003		0.0499	0.0499		0.0499	0.0499	0.0000	714.8820	714.8820	0.0137	0.0131	719.1302
NaturalGas Unmitigated	0.0722	0.6567	0.5516	3.9400e-003		0.0499	0.0499		0.0499	0.0499	0.0000	714.8820	714.8820	0.0137	0.0131	719.1302

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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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	84052.4	4.5000e-004	4.1200e-003	3.4600e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4854	4.4854	9.0000e-005	8.0000e-005	4.5120
Fast Food Restaurant with Drive Thru	994844	5.3600e-003	0.0488	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.0887	53.0887	1.0200e-003	9.7000e-004	53.4042
Industrial Park	6.63106e+006	0.0358	0.3251	0.2730	1.9500e-003		0.0247	0.0247		0.0247	0.0247	0.0000	353.8587	353.8587	6.7800e-003	6.4900e-003	355.9615
Parking Lot	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
Unrefrigerated Warehouse-No Rail	5.68643e+006	0.0307	0.2788	0.2342	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	303.4493	303.4493	5.8200e-003	5.5600e-003	305.2525
Total		**0.0722**	**0.6567**	**0.5516**	**3.9300e-003**		**0.0499**	**0.0499**		**0.0499**	**0.0499**	**0.0000**	**714.8820**	**714.8820**	**0.0137**	**0.0131**	**719.1302**

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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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	84052.4	4.5000e-004	4.1200e-003	3.4600e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4854	4.4854	9.0000e-005	8.0000e-005	4.5120
Fast Food Restaurant with Drive Thru	994844	5.3600e-003	0.0488	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.0887	53.0887	1.0200e-003	9.7000e-004	53.4042
Industrial Park	6.63106e+006	0.0358	0.3251	0.2730	1.9500e-003		0.0247	0.0247		0.0247	0.0247	0.0000	353.8587	353.8587	6.7800e-003	6.4900e-003	355.9615
Parking Lot	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
Unrefrigerated Warehouse-No Rail	5.68643e+006	0.0307	0.2788	0.2342	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	303.4493	303.4493	5.8200e-003	5.5600e-003	305.2525
Total		**0.0722**	**0.6567**	**0.5516**	**3.9300e-003**		**0.0499**	**0.0499**		**0.0499**	**0.0499**	**0.0000**	**714.8820**	**714.8820**	**0.0137**	**0.0131**	**719.1302**

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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			
Convenience Market with Gas Pumps	62742.2	11.1271	9.4000e-004	1.1000e-004	11.1845
Fast Food Restaurant with Drive Thru	133887	23.7442	2.0000e-003	2.4000e-004	23.8667
Industrial Park	4.53704e+006	804.6241	0.0679	8.2300e-003	808.7750
Parking Lot	711073	126.1057	0.0106	1.2900e-003	126.7563
Unrefrigerated Warehouse-No Rail	2.9464e+006	522.5309	0.0441	5.3500e-003	525.2266
Total		**1,488.1320**	**0.1256**	**0.0152**	**1,495.8090**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	62742.2	11.1271	9.4000e-004	1.1000e-004	11.1845
Fast Food Restaurant with Drive Thru	133887	23.7442	2.0000e-003	2.4000e-004	23.8667
Industrial Park	4.53704e+006	804.6241	0.0679	8.2300e-003	808.7750
Parking Lot	711073	126.1057	0.0106	1.2900e-003	126.7563
Unrefrigerated Warehouse-No Rail	2.9464e+006	522.5309	0.0441	5.3500e-003	525.2266
Total		**1,488.1320**	**0.1256**	**0.0152**	**1,495.8090**

6.0 Area Detail

6.1 Mitigation Measures Area

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	3.6638	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Unmitigated	3.6638	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169

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	0.2378					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4252					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**3.6638**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

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	0.2378					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4252					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**3.6638**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

7.0 Water Detail

7.1 Mitigation Measures Water

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	248.1642	6.3416	0.1513	451.7847
Unmitigated	248.1642	6.3416	0.1513	451.7847

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.586654 / 0.359562	0.9723	0.0192	4.6000e-004	1.5887
Fast Food Restaurant with Drive Thru	1.43875 / 0.0918351	1.8941	0.0470	1.1200e-003	3.4034
Industrial Park	118.687 / 0	151.5476	3.8770	0.0925	276.0332
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	73.4219 / 0	93.7502	2.3984	0.0572	170.7594
Total		**248.1642**	**6.3416**	**0.1513**	**451.7847**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.586654 / 0.359562	0.9723	0.0192	4.6000e-004	1.5887
Fast Food Restaurant with Drive Thru	1.43875 / 0.0918351	1.8941	0.0470	1.1200e-003	3.4034
Industrial Park	118.687 / 0	151.5476	3.8770	0.0925	276.0332
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	73.4219 / 0	93.7502	2.3984	0.0572	170.7594
Total		**248.1642**	**6.3416**	**0.1513**	**451.7847**

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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	205.6847	12.1556	0.0000	509.5750
Unmitigated	205.6847	12.1556	0.0000	509.5750

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market with Gas Pumps	23.8	4.8312	0.2855	0.0000	11.9691
Fast Food Restaurant with Drive Thru	54.6	11.0833	0.6550	0.0000	27.4584
Industrial Park	636.42	129.1875	7.6348	0.0000	320.0566
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	298.45	60.5827	3.5803	0.0000	150.0910
Total		**205.6847**	**12.1556**	**0.0000**	**509.5750**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market with Gas Pumps	23.8	4.8312	0.2855	0.0000	11.9691
Fast Food Restaurant with Drive Thru	54.6	11.0833	0.6550	0.0000	27.4584
Industrial Park	636.42	129.1875	7.6348	0.0000	320.0566
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	298.45	60.5827	3.5803	0.0000	150.0910
Total		**205.6847**	**12.1556**	**0.0000**	**509.5750**

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

Boilers

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 5

Off-road Equipment - Note 5

Off-road Equipment - Note 3

Trips and VMT - Note 5

Grading -

Architectural Coating - Note 5

Vehicle Trips - Note 7

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products -

Area Coating - Note 6

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Fleet Mix - Note 7

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	456,551.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,369,652.00	0.00
tblArchitecturalCoating	ConstArea_Parking	81,806.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	110.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.0130e-003	0.00
tblFleetMix	LHD2	7.0130e-003	0.00
tblFleetMix	MCY	0.02	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.15	0.17
tblFleetMix	MDV	0.15	0.17
tblFleetMix	MH	3.0330e-003	0.00
tblFleetMix	MH	3.0330e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.2500e-004	0.00
tblFleetMix	OBUS	6.2500e-004	0.00
tblFleetMix	SBUS	1.3370e-003	0.00
tblFleetMix	SBUS	1.3370e-003	0.00
tblFleetMix	UBUS	4.6700e-004	0.00
tblFleetMix	UBUS	4.6700e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	304.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	2.80
tblVehicleTrips	ST_TR	1.74	1.41
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	2.80
tblVehicleTrips	SU_TR	1.74	1.41
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	2.80
tblVehicleTrips	WD_TR	1.74	1.41

2.0 Emissions Summary

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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					
2029	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2029	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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)

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		Highest		

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	3.9077	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Energy	0.0672	0.6110	0.5133	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	2,107.1145	2,107.1145	0.1345	0.0270	2,118.5060
Mobile	0.5066	0.4270	5.7889	0.0178	2.3099	8.8300e-003	2.3188	0.6138	8.1300e-003	0.6219	0.0000	1,630.1002	1,630.1002	0.0486	0.0485	1,645.7792
Waste						0.0000	0.0000		0.0000	0.0000	222.2223	0.0000	222.2223	13.1330	0.0000	550.5464
Water						0.0000	0.0000		0.0000	0.0000	66.9895	225.3245	292.3140	6.8995	0.1648	513.9021
Total	**4.4815**	**1.0382**	**6.3111**	**0.0214**	**2.3099**	**0.0553**	**2.3653**	**0.6138**	**0.0546**	**0.6684**	**289.2119**	**3,962.5565**	**4,251.7684**	**20.2156**	**0.2403**	**4,828.7522**

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	3.9077	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Energy	0.0672	0.6110	0.5133	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	2,107.1145	2,107.1145	0.1345	0.0270	2,118.5060
Mobile	0.5066	0.4270	5.7889	0.0178	2.3099	8.8300e-003	2.3188	0.6138	8.1300e-003	0.6219	0.0000	1,630.1002	1,630.1002	0.0486	0.0485	1,645.7792
Waste						0.0000	0.0000		0.0000	0.0000	222.2223	0.0000	222.2223	13.1330	0.0000	550.5464
Water						0.0000	0.0000		0.0000	0.0000	66.9895	225.3245	292.3140	6.8995	0.1648	513.9021
Total	**4.4815**	**1.0382**	**6.3111**	**0.0214**	**2.3099**	**0.0553**	**2.3653**	**0.6138**	**0.0546**	**0.6684**	**289.2119**	**3,962.5565**	**4,251.7684**	**20.2156**	**0.2403**	**4,828.7522**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Architectural Coating	Architectural Coating	1/24/2029	1/23/2029	5	0	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

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

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	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4115.0039 Shirk & Riggin Industrial Park Project Operation Passenger Vehicles+Area Only Phase 3 - Tulare 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	0.5066	0.4270	5.7889	0.0178	2.3099	8.8300e-003	2.3188	0.6138	8.1300e-003	0.6219	0.0000	1,630.1002	1,630.1002	0.0486	0.0485	1,645.7792
Unmitigated	0.5066	0.4270	5.7889	0.0178	2.3099	8.8300e-003	2.3188	0.6138	8.1300e-003	0.6219	0.0000	1,630.1002	1,630.1002	0.0486	0.0485	1,645.7792

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	2,182.04	2,182.04	2182.04	5,720,934	5,720,934
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	188.66	188.66	188.66	550,789	550,789
Total	2,370.70	2,370.70	2,370.70	6,271,723	6,271,723

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

4115.0039 Shirk & Riggin Industrial Park Project Operation Passenger Vehicles+Area Only Phase 3 - Tulare County, Annual

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
City Park	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Industrial Park	0.591231	0.056910	0.185378	0.166481	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Non-Asphalt Surfaces	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033
Unrefrigerated Warehouse-No Rail	0.591231	0.056910	0.185378	0.166481	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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	1,441.9392	1,441.9392	0.1217	0.0148	1,449.3779
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,441.9392	1,441.9392	0.1217	0.0148	1,449.3779
NaturalGas Mitigated	0.0672	0.6110	0.5133	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	665.1753	665.1753	0.0128	0.0122	669.1281
NaturalGas Unmitigated	0.0672	0.6110	0.5133	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	665.1753	665.1753	0.0128	0.0122	669.1281

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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	tons/yr										MT/yr					
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
Industrial Park	1.00686e+007	0.0543	0.4936	0.4146	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	537.2965	537.2965	0.0103	9.8500e-003	540.4894
Other Non-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	0.0000
Unrefrigerated Warehouse-No Rail	2.39636e+006	0.0129	0.1175	0.0987	7.0000e-004		8.9300e-003	8.9300e-003		8.9300e-003	8.9300e-003	0.0000	127.8788	127.8788	2.4500e-003	2.3400e-003	128.6387
Total		**0.0672**	**0.6110**	**0.5133**	**3.6600e-003**		**0.0464**	**0.0464**		**0.0464**	**0.0464**	**0.0000**	**665.1753**	**665.1753**	**0.0128**	**0.0122**	**669.1281**

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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	tons/yr										MT/yr					
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
Industrial Park	1.00686e+007	0.0543	0.4936	0.4146	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	537.2965	537.2965	0.0103	9.8500e-003	540.4894
Other Non-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	0.0000
Unrefrigerated Warehouse-No Rail	2.39636e+006	0.0129	0.1175	0.0987	7.0000e-004		8.9300e-003	8.9300e-003		8.9300e-003	8.9300e-003	0.0000	127.8788	127.8788	2.4500e-003	2.3400e-003	128.6387
Total		**0.0672**	**0.6110**	**0.5133**	**3.6600e-003**		**0.0464**	**0.0464**		**0.0464**	**0.0464**	**0.0000**	**665.1753**	**665.1753**	**0.0128**	**0.0122**	**669.1281**

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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
Industrial Park	6.88901e+006	1,221.7356	0.1031	0.0125	1,228.0383
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.24166e+006	220.2036	0.0186	2.2500e-003	221.3396
Total		**1,441.9392**	**0.1217**	**0.0148**	**1,449.3779**

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
Industrial Park	6.88901e+006	1,221.7356	0.1031	0.0125	1,228.0383
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.24166e+006	220.2036	0.0186	2.2500e-003	221.3396
Total		**1,441.9392**	**0.1217**	**0.0148**	**1,449.3779**

6.0 Area Detail

6.1 Mitigation Measures Area

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	3.9077	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Unmitigated	3.9077	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186

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	0.2401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6668					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Total	**3.9077**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

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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	0.2401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6668					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Total	**3.9077**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

7.0 Water Detail

7.1 Mitigation Measures Water

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	292.3140	6.8995	0.1648	513.9021
Unmitigated	292.3140	6.8995	0.1648	513.9021

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 36.5666	22.6972	1.9200e-003	2.3000e-004	22.8143
Industrial Park	180.213 / 0	230.1088	5.8868	0.1404	419.1268
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	30.9413 / 0	39.5080	1.0107	0.0241	71.9610
Total		**292.3140**	**6.8995**	**0.1648**	**513.9021**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 36.5666	22.6972	1.9200e-003	2.3000e-004	22.8143
Industrial Park	180.213 / 0	230.1088	5.8868	0.1404	419.1268
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	30.9413 / 0	39.5080	1.0107	0.0241	71.9610
Total		**292.3140**	**6.8995**	**0.1648**	**513.9021**

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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	222.2223	13.1330	0.0000	550.5464
Unmitigated	222.2223	13.1330	0.0000	550.5464

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	2.64	0.5359	0.0317	0.0000	1.3277
Industrial Park	966.33	196.1563	11.5925	0.0000	485.9688
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	125.77	25.5302	1.5088	0.0000	63.2499
Total		**222.2223**	**13.1330**	**0.0000**	**550.5464**

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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	2.64	0.5359	0.0317	0.0000	1.3277
Industrial Park	966.33	196.1563	11.5925	0.0000	485.9688
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	125.77	25.5302	1.5088	0.0000	63.2499
Total		**222.2223**	**13.1330**	**0.0000**	**550.5464**

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024)

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment -

Trips and VMT -

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	PhaseEndDate	1/10/2029	6/26/2024
tblConstructionPhase	PhaseEndDate	6/14/2028	3/13/2025
tblConstructionPhase	PhaseEndDate	9/27/2028	6/26/2024
tblConstructionPhase	PhaseStartDate	9/28/2028	3/14/2024
tblConstructionPhase	PhaseStartDate	6/15/2028	3/14/2024
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	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

tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	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

	ROG	NOx	CO	SO2	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					
2024	7.5320	8.8600	11.8122	0.0318	1.4066	0.3109	1.7174	0.3815	0.2923	0.6738	0.0000	2,882.0871	2,882.0871	0.2981	0.1671	2,939.3181
2025	0.2563	1.9817	2.6518	7.3900e-003	0.3309	0.0628	0.3937	0.0899	0.0591	0.1490	0.0000	670.8445	670.8445	0.0665	0.0400	684.4261
Maximum	**7.5320**	**8.8600**	**11.8122**	**0.0318**	**1.4066**	**0.3109**	**1.7174**	**0.3815**	**0.2923**	**0.6738**	**0.0000**	**2,882.0871**	**2,882.0871**	**0.2981**	**0.1671**	**2,939.3181**

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					
2024	7.5320	8.8600	11.8122	0.0318	1.4066	0.3109	1.7174	0.3815	0.2923	0.6738	0.0000	2,882.0857	2,882.0857	0.2981	0.1671	2,939.3168
2025	0.2563	1.9817	2.6518	7.3900e-003	0.3309	0.0628	0.3937	0.0899	0.0591	0.1490	0.0000	670.8442	670.8442	0.0665	0.0400	684.4258
Maximum	**7.5320**	**8.8600**	**11.8122**	**0.0318**	**1.4066**	**0.3109**	**1.7174**	**0.3815**	**0.2923**	**0.6738**	**0.0000**	**2,882.0857**	**2,882.0857**	**0.2981**	**0.1671**	**2,939.3168**

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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	N20	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	**3-14-2024**	**6-13-2024**	8.9967	8.9967
2	**6-14-2024**	**9-13-2024**	3.8345	3.8345
3	**9-14-2024**	**12-13-2024**	2.9880	2.9880
4	**12-14-2024**	**3-13-2025**	2.8266	2.8266
		Highest	8.9967	8.9967

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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
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
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
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
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	6/26/2024	5	75	
3	Architectural Coating	Architectural Coating	3/14/2024	6/26/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Date: 8/3/2023 3:45 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20
Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating		1	241.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	0.6508	5.9481	7.1548	0.0119		0.2715	0.2715		0.2554	0.2554	0.0000	1,026.1139	1,026.1139	0.2426	0.0000	1,032.1777
Total	**0.6508**	**5.9481**	**7.1548**	**0.0119**		**0.2715**	**0.2715**		**0.2554**	**0.2554**	**0.0000**	**1,026.1139**	**1,026.1139**	**0.2426**	**0.0000**	**1,032.1777**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0539	2.2170	0.6531	9.8200e-003	0.3254	0.0143	0.3397	0.0941	0.0136	0.1077	0.0000	941.9872	941.9872	4.2400e-003	0.1415	984.2646
Worker	0.4041	0.2714	3.1483	8.4000e-003	1.0047	4.9100e-003	1.0096	0.2671	4.5200e-003	0.2716	0.0000	770.6563	770.6563	0.0246	0.0237	778.3406
Total	**0.4581**	**2.4883**	**3.8014**	**0.0182**	**1.3301**	**0.0192**	**1.3493**	**0.3612**	**0.0182**	**0.3793**	**0.0000**	**1,712.6435**	**1,712.6435**	**0.0288**	**0.1652**	**1,762.6052**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6508	5.9481	7.1548	0.0119		0.2715	0.2715		0.2554	0.2554	0.0000	1,026.1127	1,026.1127	0.2426	0.0000	1,032.1765
Total	**0.6508**	**5.9481**	**7.1548**	**0.0119**		**0.2715**	**0.2715**		**0.2554**	**0.2554**	**0.0000**	**1,026.1127**	**1,026.1127**	**0.2426**	**0.0000**	**1,032.1765**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0539	2.2170	0.6531	9.8200e-003	0.3254	0.0143	0.3397	0.0941	0.0136	0.1077	0.0000	941.9872	941.9872	4.2400e-003	0.1415	984.2646
Worker	0.4041	0.2714	3.1483	8.4000e-003	1.0047	4.9100e-003	1.0096	0.2671	4.5200e-003	0.2716	0.0000	770.6563	770.6563	0.0246	0.0237	778.3406
Total	**0.4581**	**2.4883**	**3.8014**	**0.0182**	**1.3301**	**0.0192**	**1.3493**	**0.3612**	**0.0182**	**0.3793**	**0.0000**	**1,712.6435**	**1,712.6435**	**0.0288**	**0.1652**	**1,762.6052**

3.2 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	0.1505	1.3727	1.7711	2.9700e-003		0.0581	0.0581		0.0547	0.0547	0.0000	255.3784	255.3784	0.0600	0.0000	256.8786
Total	**0.1505**	**1.3727**	**1.7711**	**2.9700e-003**		**0.0581**	**0.0581**		**0.0547**	**0.0547**	**0.0000**	**255.3784**	**255.3784**	**0.0600**	**0.0000**	**256.8786**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0131	0.5493	0.1596	2.4000e-003	0.0810	3.5500e-003	0.0845	0.0234	3.3900e-003	0.0268	0.0000	230.2288	230.2288	1.0200e-003	0.0345	240.5462
Worker	0.0927	0.0597	0.7211	2.0200e-003	0.2500	1.1500e-003	0.2511	0.0665	1.0600e-003	0.0675	0.0000	185.2373	185.2373	5.4900e-003	5.4600e-003	187.0013
Total	**0.1058**	**0.6090**	**0.8807**	**4.4200e-003**	**0.3309**	**4.7000e-003**	**0.3356**	**0.0899**	**4.4500e-003**	**0.0943**	**0.0000**	**415.4661**	**415.4661**	**6.5100e-003**	**0.0400**	**427.5475**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1505	1.3727	1.7711	2.9700e-003		0.0581	0.0581		0.0547	0.0547	0.0000	255.3781	255.3781	0.0600	0.0000	256.8783
Total	**0.1505**	**1.3727**	**1.7711**	**2.9700e-003**		**0.0581**	**0.0581**		**0.0547**	**0.0547**	**0.0000**	**255.3781**	**255.3781**	**0.0600**	**0.0000**	**256.8783**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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

Vendor	0.0131	0.5493	0.1596	2.4000e-003	0.0810	3.5500e-003	0.0845	0.0234	3.3900e-003	0.0268	0.0000	230.2288	230.2288	1.0200e-003	0.0345	240.5462
Worker	0.0927	0.0597	0.7211	2.0200e-003	0.2500	1.1500e-003	0.2511	0.0665	1.0600e-003	0.0675	0.0000	185.2373	185.2373	5.4900e-003	5.4600e-003	187.0013
Total	**0.1058**	**0.6090**	**0.8807**	**4.4200e-003**	**0.3309**	**4.7000e-003**	**0.3356**	**0.0899**	**4.4500e-003**	**0.0943**	**0.0000**	**415.4661**	**415.4661**	**6.5100e-003**	**0.0400**	**427.5475**

3.3 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	0.0371	0.3572	0.5485	8.6000e-004		0.0176	0.0176		0.0162	0.0162	0.0000	75.0995	75.0995	0.0243	0.0000	75.7067
Paving	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0982**	**0.3572**	**0.5485**	**8.6000e-004**		**0.0176**	**0.0176**		**0.0162**	**0.0162**	**0.0000**	**75.0995**	**75.0995**	**0.0243**	**0.0000**	**75.7067**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-003	1.2100e-003	0.0140	4.0000e-005	4.4800e-003	2.0000e-005	4.5000e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.4368	3.4368	1.1000e-004	1.1000e-004	3.4711
Total	**1.8000e-003**	**1.2100e-003**	**0.0140**	**4.0000e-005**	**4.4800e-003**	**2.0000e-005**	**4.5000e-003**	**1.1900e-003**	**2.0000e-005**	**1.2100e-003**	**0.0000**	**3.4368**	**3.4368**	**1.1000e-004**	**1.1000e-004**	**3.4711**

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0371	0.3572	0.5485	8.6000e-004		0.0176	0.0176		0.0162	0.0162	0.0000	75.0994	75.0994	0.0243	0.0000	75.7066
Paving	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0982**	**0.3572**	**0.5485**	**8.6000e-004**		**0.0176**	**0.0176**		**0.0162**	**0.0162**	**0.0000**	**75.0994**	**75.0994**	**0.0243**	**0.0000**	**75.7066**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-003	1.2100e-003	0.0140	4.0000e-005	4.4800e-003	2.0000e-005	4.5000e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.4368	3.4368	1.1000e-004	1.1000e-004	3.4711
Total	**1.8000e-003**	**1.2100e-003**	**0.0140**	**4.0000e-005**	**4.4800e-003**	**2.0000e-005**	**4.5000e-003**	**1.1900e-003**	**2.0000e-005**	**1.2100e-003**	**0.0000**	**3.4368**	**3.4368**	**1.1000e-004**	**1.1000e-004**	**3.4711**

3.4 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	6.2875					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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Off-Road	6.7800e-003	0.0457	0.0679	1.1000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	9.5747	9.5747	5.4000e-004	0.0000	9.5882
Total	**6.2943**	**0.0457**	**0.0679**	**1.1000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**9.5747**	**9.5747**	**5.4000e-004**	**0.0000**	**9.5882**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0194	0.2256	6.0000e-004	0.0720	3.5000e-004	0.0723	0.0191	3.2000e-004	0.0195	0.0000	55.2186	55.2186	1.7600e-003	1.7000e-003	55.7692
Total	**0.0290**	**0.0194**	**0.2256**	**6.0000e-004**	**0.0720**	**3.5000e-004**	**0.0723**	**0.0191**	**3.2000e-004**	**0.0195**	**0.0000**	**55.2186**	**55.2186**	**1.7600e-003**	**1.7000e-003**	**55.7692**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.2875					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7800e-003	0.0457	0.0679	1.1000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	9.5747	9.5747	5.4000e-004	0.0000	9.5882
Total	**6.2943**	**0.0457**	**0.0679**	**1.1000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**9.5747**	**9.5747**	**5.4000e-004**	**0.0000**	**9.5882**

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0194	0.2256	6.0000e-004	0.0720	3.5000e-004	0.0723	0.0191	3.2000e-004	0.0195	0.0000	55.2186	55.2186	1.7600e-003	1.7000e-003	55.7692
Total	**0.0290**	**0.0194**	**0.2256**	**6.0000e-004**	**0.0720**	**3.5000e-004**	**0.0723**	**0.0191**	**3.2000e-004**	**0.0195**	**0.0000**	**55.2186**	**55.2186**	**1.7600e-003**	**1.7000e-003**	**55.7692**

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unmitigated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas Pumps	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Fast Food Restaurant with Drive Thru	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Industrial Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

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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

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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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

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Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000

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Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Unmitigated	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

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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
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

7.0 Water Detail

7.1 Mitigation Measures Water

	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			
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000

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Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/ Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare 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			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	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
Land Use	tons	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024)

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment -

Trips and VMT -

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	PhaseEndDate	1/10/2029	6/26/2024
tblConstructionPhase	PhaseEndDate	6/14/2028	3/13/2025
tblConstructionPhase	PhaseEndDate	9/27/2028	6/26/2024
tblConstructionPhase	PhaseStartDate	9/28/2028	3/14/2024
tblConstructionPhase	PhaseStartDate	6/15/2028	3/14/2024
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	0.00

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare 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

	ROG	NOx	CO	SO2	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					
2024	182.6884	90.8776	133.5208	0.3399	15.2115	3.3203	18.5319	4.1073	3.1182	7.2256	0.0000	33,963.7001	33,963.7001	3.6364	1.7811	34,585.3831
2025	10.4592	75.1308	106.3442	0.2909	13.1086	2.4152	15.5238	3.5496	2.2731	5.8227	0.0000	29,124.0755	29,124.0755	2.8117	1.6839	29,696.1764
Maximum	**182.6884**	**90.8776**	**133.5208**	**0.3399**	**15.2115**	**3.3203**	**18.5319**	**4.1073**	**3.1182**	**7.2256**	**0.0000**	**33,963.7001**	**33,963.7001**	**3.6364**	**1.7811**	**34,585.3831**

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					
2024	182.6884	90.8776	133.5208	0.3399	15.2115	3.3203	18.5319	4.1073	3.1182	7.2256	0.0000	33,963.7001	33,963.7001	3.6364	1.7811	34,585.3831
2025	10.4592	75.1308	106.3442	0.2909	13.1086	2.4152	15.5238	3.5496	2.2731	5.8227	0.0000	29,124.0755	29,124.0755	2.8117	1.6839	29,696.1764
Maximum	**182.6884**	**90.8776**	**133.5208**	**0.3399**	**15.2115**	**3.3203**	**18.5319**	**4.1073**	**3.1182**	**7.2256**	**0.0000**	**33,963.7001**	**33,963.7001**	**3.6364**	**1.7811**	**34,585.3831**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare 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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	6/26/2024	5	75	
3	Architectural Coating	Architectural Coating	3/14/2024	6/26/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20
Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
Paving	Pavers	2	8.00	130	0.42

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	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	241.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	6.2281	56.9198	68.4668	0.1141		2.5977	2.5977		2.4435	2.4435		10,823.8944	10,823.8944	2.5586		10,887.8582
Total	**6.2281**	**56.9198**	**68.4668**	**0.1141**		**2.5977**	**2.5977**		**2.4435**	**2.4435**		**10,823.8944**	**10,823.8944**	**2.5586**		**10,887.8582**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5340	20.2748	6.1563	0.0939	3.1933	0.1363	3.3296	0.9196	0.1304	1.0499		9,928.5428	9,928.5428	0.0453	1.4909	10,373.9555
Worker	4.5064	2.4252	35.0318	0.0875	9.9152	0.0469	9.9622	2.6300	0.0432	2.6732		8,846.0540	8,846.0540	0.2498	0.2395	8,923.6561
Total	**5.0404**	**22.7000**	**41.1881**	**0.1814**	**13.1085**	**0.1832**	**13.2918**	**3.5495**	**0.1736**	**3.7231**		**18,774.5968**	**18,774.5968**	**0.2951**	**1.7303**	**19,297.6116**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.2281	56.9198	68.4668	0.1141		2.5977	2.5977		2.4435	2.4435	0.0000	10,823.8944	10,823.8944	2.5586		10,887.8582
Total	**6.2281**	**56.9198**	**68.4668**	**0.1141**		**2.5977**	**2.5977**		**2.4435**	**2.4435**	**0.0000**	**10,823.8944**	**10,823.8944**	**2.5586**		**10,887.8582**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5340	20.2748	6.1563	0.0939	3.1933	0.1363	3.3296	0.9196	0.1304	1.0499		9,928.5428	9,928.5428	0.0453	1.4909	10,373.9555
Worker	4.5064	2.4252	35.0318	0.0875	9.9152	0.0469	9.9622	2.6300	0.0432	2.6732		8,846.0540	8,846.0540	0.2498	0.2395	8,923.6561
Total	**5.0404**	**22.7000**	**41.1881**	**0.1814**	**13.1085**	**0.1832**	**13.2918**	**3.5495**	**0.1736**	**3.7231**		**18,774.5968**	**18,774.5968**	**0.2951**	**1.7303**	**19,297.6116**

3.2 Building Construction - 2025

Unmitigated Construction On-Site

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare 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					
Off-Road	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5223	20.1896	6.0447	0.0922	3.1934	0.1363	3.3297	0.9196	0.1304	1.0499		9,753.0510	9,753.0510	0.0439	1.4624	10,189.9438
Worker	4.1498	2.1467	32.1803	0.0845	9.9152	0.0444	9.9596	2.6300	0.0409	2.6709		8,543.8510	8,543.8510	0.2236	0.2215	8,615.4550
Total	**4.6720**	**22.3362**	**38.2250**	**0.1768**	**13.1086**	**0.1807**	**13.2893**	**3.5496**	**0.1712**	**3.7208**		**18,296.9020**	**18,296.9020**	**0.2676**	**1.6839**	**18,805.3988**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5223	20.1896	6.0447	0.0922	3.1934	0.1363	3.3297	0.9196	0.1304	1.0499		9,753.0510	9,753.0510	0.0439	1.4624	10,189.9438
Worker	4.1498	2.1467	32.1803	0.0845	9.9152	0.0444	9.9596	2.6300	0.0409	2.6709		8,543.8510	8,543.8510	0.2236	0.2215	8,615.4550
Total	**4.6720**	**22.3362**	**38.2250**	**0.1768**	**13.1086**	**0.1807**	**13.2893**	**3.5496**	**0.1712**	**3.7208**		**18,296.9020**	**18,296.9020**	**0.2676**	**1.6839**	**18,805.3988**

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.6175**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988
Total	**0.0560**	**0.0301**	**0.4354**	**1.0900e-003**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**109.9344**	**109.9344**	**3.1000e-003**	**2.9800e-003**	**110.8988**

Mitigated Construction On-Site

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare 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					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.6175**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988
Total	**0.0560**	**0.0301**	**0.4354**	**1.0900e-003**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**109.9344**	**109.9344**	**3.1000e-003**	**2.9800e-003**	**110.8988**

3.4 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	167.6659					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
Total	**167.8467**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8998	0.4842	6.9948	0.0175	1.9798	9.3700e-003	1.9891	0.5251	8.6300e-003	0.5338		1,766.2792	1,766.2792	0.0499	0.0478	1,781.7739
Total	**0.8998**	**0.4842**	**6.9948**	**0.0175**	**1.9798**	**9.3700e-003**	**1.9891**	**0.5251**	**8.6300e-003**	**0.5338**		**1,766.2792**	**1,766.2792**	**0.0499**	**0.0478**	**1,781.7739**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	167.6659					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
Total	**167.8467**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8998	0.4842	6.9948	0.0175	1.9798	9.3700e-003	1.9891	0.5251	8.6300e-003	0.5338		1,766.2792	1,766.2792	0.0499	0.0478	1,781.7739
Total	**0.8998**	**0.4842**	**6.9948**	**0.0175**	**1.9798**	**9.3700e-003**	**1.9891**	**0.5251**	**8.6300e-003**	**0.5338**		**1,766.2792**	**1,766.2792**	**0.0499**	**0.0478**	**1,781.7739**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare 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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas Pumps	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare 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
Convenience Market with Gas Pumps	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Fast Food Restaurant with Drive Thru	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Industrial Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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					
Convenience Market with Gas Pumps	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

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
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4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Mitigated	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Unmitigated	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024)

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment -

Trips and VMT -

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	PhaseEndDate	1/10/2029	6/26/2024
tblConstructionPhase	PhaseEndDate	6/14/2028	3/13/2025
tblConstructionPhase	PhaseEndDate	9/27/2028	6/26/2024
tblConstructionPhase	PhaseStartDate	9/28/2028	3/14/2024
tblConstructionPhase	PhaseStartDate	6/15/2028	3/14/2024
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	0.00

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

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

	ROG	NOx	CO	SO2	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					
2024	181.9884	92.8408	127.0233	0.3280	15.2115	3.3208	18.5323	4.1073	3.1186	7.2260	0.0000	32,761.7062	32,761.7062	3.6679	1.8173	33,394.9635
2025	9.9271	76.9504	101.5830	0.2815	13.1086	2.4156	15.5242	3.5496	2.2736	5.8231	0.0000	28,172.5838	28,172.5838	2.8359	1.7123	28,753.7373
Maximum	**181.9884**	**92.8408**	**127.0233**	**0.3280**	**15.2115**	**3.3208**	**18.5323**	**4.1073**	**3.1186**	**7.2260**	**0.0000**	**32,761.7062**	**32,761.7062**	**3.6679**	**1.8173**	**33,394.9635**

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					
2024	181.9884	92.8408	127.0233	0.3280	15.2115	3.3208	18.5323	4.1073	3.1186	7.2260	0.0000	32,761.7062	32,761.7062	3.6679	1.8173	33,394.9635
2025	9.9271	76.9504	101.5830	0.2815	13.1086	2.4156	15.5242	3.5496	2.2736	5.8231	0.0000	28,172.5838	28,172.5838	2.8359	1.7123	28,753.7373
Maximum	**181.9884**	**92.8408**	**127.0233**	**0.3280**	**15.2115**	**3.3208**	**18.5323**	**4.1073**	**3.1186**	**7.2260**	**0.0000**	**32,761.7062**	**32,761.7062**	**3.6679**	**1.8173**	**33,394.9635**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

2.2 Overall Operational

Unmitigated Operational

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

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					
Area	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	6/26/2024	5	75	
3	Architectural Coating	Architectural Coating	3/14/2024	6/26/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20
Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
Paving	Pavers	2	8.00	130	0.42

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	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	241.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	6.2281	56.9198	68.4668	0.1141		2.5977	2.5977		2.4435	2.4435		10,823.8944	10,823.8944	2.5586		10,887.8582
Total	**6.2281**	**56.9198**	**68.4668**	**0.1141**		**2.5977**	**2.5977**		**2.4435**	**2.4435**		**10,823.8944**	**10,823.8944**	**2.5586**		**10,887.8582**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5020	21.7344	6.3703	0.0941	3.1933	0.1368	3.3301	0.9196	0.1308	1.0504		9,947.5099	9,947.5099	0.0439	1.4950	10,394.1034
Worker	3.9552	2.8407	29.4946	0.0776	9.9152	0.0469	9.9622	2.6300	0.0432	2.6732		7,838.7404	7,838.7404	0.2769	0.2660	7,924.9172
Total	**4.4573**	**24.5751**	**35.8649**	**0.1716**	**13.1085**	**0.1837**	**13.2922**	**3.5495**	**0.1740**	**3.7236**		**17,786.2503**	**17,786.2503**	**0.3208**	**1.7609**	**18,319.0206**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.2281	56.9198	68.4668	0.1141		2.5977	2.5977		2.4435	2.4435	0.0000	10,823.8944	10,823.8944	2.5586		10,887.8582
Total	**6.2281**	**56.9198**	**68.4668**	**0.1141**		**2.5977**	**2.5977**		**2.4435**	**2.4435**	**0.0000**	**10,823.8944**	**10,823.8944**	**2.5586**		**10,887.8582**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5020	21.7344	6.3703	0.0941	3.1933	0.1368	3.3301	0.9196	0.1308	1.0504		9,947.5099	9,947.5099	0.0439	1.4950	10,394.1034
Worker	3.9552	2.8407	29.4946	0.0776	9.9152	0.0469	9.9622	2.6300	0.0432	2.6732		7,838.7404	7,838.7404	0.2769	0.2660	7,924.9172
Total	**4.4573**	**24.5751**	**35.8649**	**0.1716**	**13.1085**	**0.1837**	**13.2922**	**3.5495**	**0.1740**	**3.7236**		**17,786.2503**	**17,786.2503**	**0.3208**	**1.7609**	**18,319.0206**

3.2 Building Construction - 2025

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4905	21.6427	6.2571	0.0924	3.1934	0.1367	3.3301	0.9196	0.1308	1.0504		9,771.8207	9,771.8207	0.0425	1.4664	10,209.8613
Worker	3.6494	2.5131	27.2067	0.0749	9.9152	0.0444	9.9596	2.6300	0.0409	2.6709		7,573.5896	7,573.5896	0.2492	0.2459	7,653.0985
Total	**4.1399**	**24.1558**	**33.4638**	**0.1674**	**13.1086**	**0.1811**	**13.2897**	**3.5496**	**0.1716**	**3.7212**		**17,345.4103**	**17,345.4103**	**0.2917**	**1.7123**	**17,862.9598**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4905	21.6427	6.2571	0.0924	3.1934	0.1367	3.3301	0.9196	0.1308	1.0504		9,771.8207	9,771.8207	0.0425	1.4664	10,209.8613
Worker	3.6494	2.5131	27.2067	0.0749	9.9152	0.0444	9.9596	2.6300	0.0409	2.6709		7,573.5896	7,573.5896	0.2492	0.2459	7,653.0985
Total	**4.1399**	**24.1558**	**33.4638**	**0.1674**	**13.1086**	**0.1811**	**13.2897**	**3.5496**	**0.1716**	**3.7212**		**17,345.4103**	**17,345.4103**	**0.2917**	**1.7123**	**17,862.9598**

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.6175**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870
Total	**0.0492**	**0.0353**	**0.3665**	**9.6000e-004**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**97.4160**	**97.4160**	**3.4400e-003**	**3.3100e-003**	**98.4870**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.6175**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870
Total	**0.0492**	**0.0353**	**0.3665**	**9.6000e-004**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**97.4160**	**97.4160**	**3.4400e-003**	**3.3100e-003**	**98.4870**

3.4 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	167.6659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Total	**167.8467**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7897	0.5672	5.8892	0.0155	1.9798	9.3700e-003	1.9891	0.5251	8.6300e-003	0.5338		1,565.1503	1,565.1503	0.0553	0.0531	1,582.3571
Total	**0.7897**	**0.5672**	**5.8892**	**0.0155**	**1.9798**	**9.3700e-003**	**1.9891**	**0.5251**	**8.6300e-003**	**0.5338**		**1,565.1503**	**1,565.1503**	**0.0553**	**0.0531**	**1,582.3571**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	167.6659					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
Total	**167.8467**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7897	0.5672	5.8892	0.0155	1.9798	9.3700e-003	1.9891	0.5251	8.6300e-003	0.5338		1,565.1503	1,565.1503	0.0553	0.0531	1,582.3571
Total	**0.7897**	**0.5672**	**5.8892**	**0.0155**	**1.9798**	**9.3700e-003**	**1.9891**	**0.5251**	**8.6300e-003**	**0.5338**		**1,565.1503**	**1,565.1503**	**0.0553**	**0.0531**	**1,582.3571**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas Pumps	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Fast Food Restaurant with Drive Thru	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Industrial Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Parking Lot	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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	Appendix A				lb/day						lb/day					

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Unmitigated	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024)

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment -

Trips and VMT -

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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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	1,110.00	261.00
tblConstructionPhase	PhaseEndDate	1/10/2029	6/26/2024
tblConstructionPhase	PhaseEndDate	6/14/2028	3/13/2025
tblConstructionPhase	PhaseEndDate	9/27/2028	6/26/2024
tblConstructionPhase	PhaseStartDate	9/28/2028	3/14/2024
tblConstructionPhase	PhaseStartDate	6/15/2028	3/14/2024
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00
tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	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

tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00

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tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	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					
2024	7.5320	8.8600	11.8122	0.0318	1.4066	0.3109	1.7174	0.3815	0.2923	0.6738	0.0000	2,882.0871	2,882.0871	0.2981	0.1671	2,939.3181
2025	0.2563	1.9817	2.6518	7.3900e-003	0.3309	0.0628	0.3937	0.0899	0.0591	0.1490	0.0000	670.8445	670.8445	0.0665	0.0400	684.4261
Maximum	**7.5320**	**8.8600**	**11.8122**	**0.0318**	**1.4066**	**0.3109**	**1.7174**	**0.3815**	**0.2923**	**0.6738**	**0.0000**	**2,882.0871**	**2,882.0871**	**0.2981**	**0.1671**	**2,939.3181**

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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					
2024	7.0783	3.7104	12.5594	0.0318	1.4066	0.0587	1.4653	0.3815	0.0577	0.4392	0.0000	2,882.0857	2,882.0857	0.2981	0.1671	2,939.3168
2025	0.1611	0.8912	2.8203	7.3900e-003	0.3309	0.0133	0.3443	0.0899	0.0131	0.1030	0.0000	670.8442	670.8442	0.0665	0.0400	684.4258
Maximum	**7.0783**	**3.7104**	**12.5594**	**0.0318**	**1.4066**	**0.0587**	**1.4653**	**0.3815**	**0.0577**	**0.4392**	**0.0000**	**2,882.0857**	**2,882.0857**	**0.2981**	**0.1671**	**2,939.3168**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.05**	**57.56**	**-6.33**	**0.00**	**0.00**	**80.72**	**14.29**	**0.00**	**79.87**	**34.11**	**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	**3-14-2024**	**6-13-2024**	8.9967	7.0188
2	**6-14-2024**	**9-13-2024**	3.8345	2.1460
3	**9-14-2024**	**12-13-2024**	2.9880	1.3650
4	**12-14-2024**	**3-13-2025**	2.8266	1.3329
		Highest	8.9967	7.0188

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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
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

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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
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
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
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	6/26/2024	5	75	
3	Architectural Coating	Architectural Coating	3/14/2024	6/26/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20
Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
Paving	Pavers	2	8.00	130	0.42

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Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	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	241.00	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

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	0.6508	5.9481	7.1548	0.0119		0.2715	0.2715		0.2554	0.2554	0.0000	1,026.1139	1,026.1139	0.2426	0.0000	1,032.1777
Total	**0.6508**	**5.9481**	**7.1548**	**0.0119**		**0.2715**	**0.2715**		**0.2554**	**0.2554**	**0.0000**	**1,026.1139**	**1,026.1139**	**0.2426**	**0.0000**	**1,032.1777**

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0539	2.2170	0.6531	9.8200e-003	0.3254	0.0143	0.3397	0.0941	0.0136	0.1077	0.0000	941.9872	941.9872	4.2400e-003	0.1415	984.2646
Worker	0.4041	0.2714	3.1483	8.4000e-003	1.0047	4.9100e-003	1.0096	0.2671	4.5200e-003	0.2716	0.0000	770.6563	770.6563	0.0246	0.0237	778.3406
Total	**0.4581**	**2.4883**	**3.8014**	**0.0182**	**1.3301**	**0.0192**	**1.3493**	**0.3612**	**0.0182**	**0.3793**	**0.0000**	**1,712.6435**	**1,712.6435**	**0.0288**	**0.1652**	**1,762.6052**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2293	1.1510	7.8011	0.0119		0.0376	0.0376		0.0376	0.0376	0.0000	1,026.1127	1,026.1127	0.2426	0.0000	1,032.1765
Total	**0.2293**	**1.1510**	**7.8011**	**0.0119**		**0.0376**	**0.0376**		**0.0376**	**0.0376**	**0.0000**	**1,026.1127**	**1,026.1127**	**0.2426**	**0.0000**	**1,032.1765**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0539	2.2170	0.6531	9.8200e-003	0.3254	0.0143	0.3397	0.0941	0.0136	0.1077	0.0000	941.9872	941.9872	4.2400e-003	0.1415	984.2646
Worker	0.4041	0.2714	3.1483	8.4000e-003	1.0047	4.9100e-003	1.0096	0.2671	4.5200e-003	0.2716	0.0000	770.6563	770.6563	0.0246	0.0237	778.3406
Total	**0.4581**	**2.4883**	**3.8014**	**0.0182**	**1.3301**	**0.0192**	**1.3493**	**0.3612**	**0.0182**	**0.3793**	**0.0000**	**1,712.6435**	**1,712.6435**	**0.0288**	**0.1652**	**1,762.6052**

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3.2 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	0.1505	1.3727	1.7711	2.9700e-003		0.0581	0.0581		0.0547	0.0547	0.0000	255.3784	255.3784	0.0600	0.0000	256.8786
Total	**0.1505**	**1.3727**	**1.7711**	**2.9700e-003**		**0.0581**	**0.0581**		**0.0547**	**0.0547**	**0.0000**	**255.3784**	**255.3784**	**0.0600**	**0.0000**	**256.8786**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0131	0.5493	0.1596	2.4000e-003	0.0810	3.5500e-003	0.0845	0.0234	3.3900e-003	0.0268	0.0000	230.2288	230.2288	1.0200e-003	0.0345	240.5462
Worker	0.0927	0.0597	0.7211	2.0200e-003	0.2500	1.1500e-003	0.2511	0.0665	1.0600e-003	0.0675	0.0000	185.2373	185.2373	5.4900e-003	5.4600e-003	187.0013
Total	**0.1058**	**0.6090**	**0.8807**	**4.4200e-003**	**0.3309**	**4.7000e-003**	**0.3356**	**0.0899**	**4.4500e-003**	**0.0943**	**0.0000**	**415.4661**	**415.4661**	**6.5100e-003**	**0.0400**	**427.5475**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0553	0.2822	1.9396	2.9700e-003		8.6400e-003	8.6400e-003		8.6400e-003	8.6400e-003	0.0000	255.3781	255.3781	0.0600	0.0000	256.8783
Total	**0.0553**	**0.2822**	**1.9396**	**2.9700e-003**		**8.6400e-003**	**8.6400e-003**		**8.6400e-003**	**8.6400e-003**	**0.0000**	**255.3781**	**255.3781**	**0.0600**	**0.0000**	**256.8783**

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0131	0.5493	0.1596	2.4000e-003	0.0810	3.5500e-003	0.0845	0.0234	3.3900e-003	0.0268	0.0000	230.2288	230.2288	1.0200e-003	0.0345	240.5462
Worker	0.0927	0.0597	0.7211	2.0200e-003	0.2500	1.1500e-003	0.2511	0.0665	1.0600e-003	0.0675	0.0000	185.2373	185.2373	5.4900e-003	5.4600e-003	187.0013
Total	**0.1058**	**0.6090**	**0.8807**	**4.4200e-003**	**0.3309**	**4.7000e-003**	**0.3356**	**0.0899**	**4.4500e-003**	**0.0943**	**0.0000**	**415.4661**	**415.4661**	**6.5100e-003**	**0.0400**	**427.5475**

3.3 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	0.0371	0.3572	0.5485	8.6000e-004		0.0176	0.0176		0.0162	0.0162	0.0000	75.0995	75.0995	0.0243	0.0000	75.7067
Paving	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0982**	**0.3572**	**0.5485**	**8.6000e-004**		**0.0176**	**0.0176**		**0.0162**	**0.0162**	**0.0000**	**75.0995**	**75.0995**	**0.0243**	**0.0000**	**75.7067**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	1.8000e-003	1.2100e-003	0.0140	4.0000e-005	4.4800e-003	2.0000e-005	4.5000e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.4368	3.4368	1.1000e-004	1.1000e-004	3.4711
Total	**1.8000e-003**	**1.2100e-003**	**0.0140**	**4.0000e-005**	**4.4800e-003**	**2.0000e-005**	**4.5000e-003**	**1.1900e-003**	**2.0000e-005**	**1.2100e-003**	**0.0000**	**3.4368**	**3.4368**	**1.1000e-004**	**1.1000e-004**	**3.4711**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0105	0.0456	0.6486	8.6000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	75.0994	75.0994	0.0243	0.0000	75.7066
Paving	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0716**	**0.0456**	**0.6486**	**8.6000e-004**		**1.4000e-003**	**1.4000e-003**		**1.4000e-003**	**1.4000e-003**	**0.0000**	**75.0994**	**75.0994**	**0.0243**	**0.0000**	**75.7066**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-003	1.2100e-003	0.0140	4.0000e-005	4.4800e-003	2.0000e-005	4.5000e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.4368	3.4368	1.1000e-004	1.1000e-004	3.4711
Total	**1.8000e-003**	**1.2100e-003**	**0.0140**	**4.0000e-005**	**4.4800e-003**	**2.0000e-005**	**4.5000e-003**	**1.1900e-003**	**2.0000e-005**	**1.2100e-003**	**0.0000**	**3.4368**	**3.4368**	**1.1000e-004**	**1.1000e-004**	**3.4711**

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3.4 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	6.2875					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7800e-003	0.0457	0.0679	1.1000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	9.5747	9.5747	5.4000e-004	0.0000	9.5882
Total	**6.2943**	**0.0457**	**0.0679**	**1.1000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**9.5747**	**9.5747**	**5.4000e-004**	**0.0000**	**9.5882**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0194	0.2256	6.0000e-004	0.0720	3.5000e-004	0.0723	0.0191	3.2000e-004	0.0195	0.0000	55.2186	55.2186	1.7600e-003	1.7000e-003	55.7692
Total	**0.0290**	**0.0194**	**0.2256**	**6.0000e-004**	**0.0720**	**3.5000e-004**	**0.0723**	**0.0191**	**3.2000e-004**	**0.0195**	**0.0000**	**55.2186**	**55.2186**	**1.7600e-003**	**1.7000e-003**	**55.7692**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.2875					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	4.8300e-003	0.0687	1.1000e-004		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	9.5747	9.5747	5.4000e-004	0.0000	9.5882

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Total	**6.2886**	**4.8300e-003**	**0.0687**	**1.1000e-004**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**9.5747**	**9.5747**	**5.4000e-004**	**0.0000**	**9.5882**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0194	0.2256	6.0000e-004	0.0720	3.5000e-004	0.0723	0.0191	3.2000e-004	0.0195	0.0000	55.2186	55.2186	1.7600e-003	1.7000e-003	55.7692
Total	**0.0290**	**0.0194**	**0.2256**	**6.0000e-004**	**0.0720**	**3.5000e-004**	**0.0723**	**0.0191**	**3.2000e-004**	**0.0195**	**0.0000**	**55.2186**	**55.2186**	**1.7600e-003**	**1.7000e-003**	**55.7692**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas Pumps	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Fast Food Restaurant with Drive Thru	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Industrial Park	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Parking Lot	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Unrefrigerated Warehouse-No Rail	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296

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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

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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total	Appendix A	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	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

Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Unmitigated	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169

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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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

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
Landscaping	7.5000e-004	7.0000e-005	8.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0169
Total	**7.5000e-004**	**7.0000e-005**	**8.1600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0159**	**0.0159**	**4.0000e-005**	**0.0000**	**0.0169**

7.0 Water Detail

7.1 Mitigation Measures Water

	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			
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	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
Land Use	tons	MT/yr			
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024)

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment -

Trips and VMT -

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare 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
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	PhaseEndDate	1/10/2029	6/26/2024
tblConstructionPhase	PhaseEndDate	6/14/2028	3/13/2025
tblConstructionPhase	PhaseEndDate	9/27/2028	6/26/2024
tblConstructionPhase	PhaseStartDate	9/28/2028	3/14/2024
tblConstructionPhase	PhaseStartDate	6/15/2028	3/14/2024
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00
tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	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					
2024	182.6884	90.8776	133.5208	0.3399	15.2115	3.3203	18.5319	4.1073	3.1182	7.2256	0.0000	33,963.7001	33,963.7001	3.6364	1.7811	34,585.3831
2025	10.4592	75.1308	106.3442	0.2909	13.1086	2.4152	15.5238	3.5496	2.2731	5.8227	0.0000	29,124.0755	29,124.0755	2.8117	1.6839	29,696.1764
Maximum	**182.6884**	**90.8776**	**133.5208**	**0.3399**	**15.2115**	**3.3203**	**18.5319**	**4.1073**	**3.1182**	**7.2256**	**0.0000**	**33,963.7001**	**33,963.7001**	**3.6364**	**1.7811**	**34,585.3831**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	177.7957	35.5732	142.3977	0.3399	15.2115	0.5944	15.8059	4.1073	0.5839	4.6913	0.0000	33,963.7001	33,963.7001	3.6364	1.7811	34,585.3831
2025	6.7987	33.1884	112.8258	0.2909	13.1086	0.5129	13.6215	3.5496	0.5034	4.0530	0.0000	29,124.0755	29,124.0755	2.8117	1.6839	29,696.1764
Maximum	**177.7957**	**35.5732**	**142.3977**	**0.3399**	**15.2115**	**0.5944**	**15.8059**	**4.1073**	**0.5839**	**4.6913**	**0.0000**	**33,963.7001**	**33,963.7001**	**3.6364**	**1.7811**	**34,585.3831**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.43**	**58.58**	**-6.40**	**0.00**	**0.00**	**80.70**	**13.59**	**0.00**	**79.83**	**32.99**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	6/26/2024	5	75	
3	Architectural Coating	Architectural Coating	3/14/2024	6/26/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

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
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20
Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	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	241.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	6.2281	56.9198	68.4668	0.1141		2.5977	2.5977		2.4435	2.4435		10,823.8944	10,823.8944	2.5586		10,887.8582
Total	**6.2281**	**56.9198**	**68.4668**	**0.1141**		**2.5977**	**2.5977**		**2.4435**	**2.4435**		**10,823.8944**	**10,823.8944**	**2.5586**		**10,887.8582**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5340	20.2748	6.1563	0.0939	3.1933	0.1363	3.3296	0.9196	0.1304	1.0499		9,928.5428	9,928.5428	0.0453	1.4909	10,373.9555
Worker	4.5064	2.4252	35.0318	0.0875	9.9152	0.0469	9.9622	2.6300	0.0432	2.6732		8,846.0540	8,846.0540	0.2498	0.2395	8,923.6561
Total	**5.0404**	**22.7000**	**41.1881**	**0.1814**	**13.1085**	**0.1832**	**13.2918**	**3.5495**	**0.1736**	**3.7231**		**18,774.5968**	**18,774.5968**	**0.2951**	**1.7303**	**19,297.6116**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1941	11.0147	74.6515	0.1141		0.3598	0.3598		0.3598	0.3598	0.0000	10,823.8944	10,823.8944	2.5586		10,887.8582
Total	**2.1941**	**11.0147**	**74.6515**	**0.1141**		**0.3598**	**0.3598**		**0.3598**	**0.3598**	**0.0000**	**10,823.8944**	**10,823.8944**	**2.5586**		**10,887.8582**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5340	20.2748	6.1563	0.0939	3.1933	0.1363	3.3296	0.9196	0.1304	1.0499		9,928.5428	9,928.5428	0.0453	1.4909	10,373.9555
Worker	4.5064	2.4252	35.0318	0.0875	9.9152	0.0469	9.9622	2.6300	0.0432	2.6732		8,846.0540	8,846.0540	0.2498	0.2395	8,923.6561
Total	**5.0404**	**22.7000**	**41.1881**	**0.1814**	**13.1085**	**0.1832**	**13.2918**	**3.5495**	**0.1736**	**3.7231**		**18,774.5968**	**18,774.5968**	**0.2951**	**1.7303**	**19,297.6116**

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5223	20.1896	6.0447	0.0922	3.1934	0.1363	3.3297	0.9196	0.1304	1.0499		9,753.0510	9,753.0510	0.0439	1.4624	10,189.9438
Worker	4.1498	2.1467	32.1803	0.0845	9.9152	0.0444	9.9596	2.6300	0.0409	2.6709		8,543.8510	8,543.8510	0.2236	0.2215	8,615.4550
Total	**4.6720**	**22.3362**	**38.2250**	**0.1768**	**13.1086**	**0.1807**	**13.2893**	**3.5496**	**0.1712**	**3.7208**		**18,296.9020**	**18,296.9020**	**0.2676**	**1.6839**	**18,805.3988**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1267	10.8522	74.6009	0.1142		0.3322	0.3322		0.3322	0.3322	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**2.1267**	**10.8522**	**74.6009**	**0.1142**		**0.3322**	**0.3322**		**0.3322**	**0.3322**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5223	20.1896	6.0447	0.0922	3.1934	0.1363	3.3297	0.9196	0.1304	1.0499		9,753.0510	9,753.0510	0.0439	1.4624	10,189.9438
Worker	4.1498	2.1467	32.1803	0.0845	9.9152	0.0444	9.9596	2.6300	0.0409	2.6709		8,543.8510	8,543.8510	0.2236	0.2215	8,615.4550
Total	**4.6720**	**22.3362**	**38.2250**	**0.1768**	**13.1086**	**0.1807**	**13.2893**	**3.5496**	**0.1712**	**3.7208**		**18,296.9020**	**18,296.9020**	**0.2676**	**1.6839**	**18,805.3988**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.6175**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988
Total	**0.0560**	**0.0301**	**0.4354**	**1.0900e-003**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**109.9344**	**109.9344**	**3.1000e-003**	**2.9800e-003**	**110.8988**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9098**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988
Total	**0.0560**	**0.0301**	**0.4354**	**1.0900e-003**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**109.9344**	**109.9344**	**3.1000e-003**	**2.9800e-003**	**110.8988**

3.4 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	167.6659					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
Total	**167.8467**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8998	0.4842	6.9948	0.0175	1.9798	9.3700e-003	1.9891	0.5251	8.6300e-003	0.5338		1,766.2792	1,766.2792	0.0499	0.0478	1,781.7739
Total	**0.8998**	**0.4842**	**6.9948**	**0.0175**	**1.9798**	**9.3700e-003**	**1.9891**	**0.5251**	**8.6300e-003**	**0.5338**		**1,766.2792**	**1,766.2792**	**0.0499**	**0.0478**	**1,781.7739**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	167.6659					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	0.0159		281.8443
Total	**167.6956**	**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**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8998	0.4842	6.9948	0.0175	1.9798	9.3700e-003	1.9891	0.5251	8.6300e-003	0.5338		1,766.2792	1,766.2792	0.0499	0.0478	1,781.7739
Total	**0.8998**	**0.4842**	**6.9948**	**0.0175**	**1.9798**	**9.3700e-003**	**1.9891**	**0.5251**	**8.6300e-003**	**0.5338**		**1,766.2792**	**1,766.2792**	**0.0499**	**0.0478**	**1,781.7739**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare 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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas Pumps	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare 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
Convenience Market with Gas Pumps	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Fast Food Restaurant with Drive Thru	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Industrial Park	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Parking Lot	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Unrefrigerated Warehouse-No Rail	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024)

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	513.24	1000sqft	11.78	513,240.00	0
Unrefrigerated Warehouse-No Rail	317.50	1000sqft	7.29	317,500.00	0
Parking Lot	46.64	Acre	46.64	2,031,638.40	0
Fast Food Restaurant with Drive Thru	4.74	1000sqft	0.11	4,736.00	0
Convenience Market with Gas Pumps	7.92	1000sqft	0.18	7,922.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment -

Trips and VMT -

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	421699	0
tblAreaCoating	Area_Nonresidential_Interior	1265097	0
tblAreaCoating	Area_Parking	121898	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

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
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	PhaseEndDate	1/10/2029	6/26/2024
tblConstructionPhase	PhaseEndDate	6/14/2028	3/13/2025
tblConstructionPhase	PhaseEndDate	9/27/2028	6/26/2024
tblConstructionPhase	PhaseStartDate	9/28/2028	3/14/2024
tblConstructionPhase	PhaseStartDate	6/15/2028	3/14/2024
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	3.71	0.00
tblEnergyUse	LightingElect	6.17	0.00
tblEnergyUse	LightingElect	2.92	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	16.25	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	174.70	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	5.85	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	35.36	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblLandUse	LandUseSquareFeet	4,740.00	4,736.00
tblLandUse	LandUseSquareFeet	7,920.00	7,922.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	8.00	8.50
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	8.40
tblSolidWaste	SolidWasteGenerationRate	23.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.60	0.00
tblSolidWaste	SolidWasteGenerationRate	636.42	0.00
tblSolidWaste	SolidWasteGenerationRate	298.45	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	616.12	0.00
tblVehicleTrips	ST_TR	2.54	0.00

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	472.58	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	470.95	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	586,654.37	0.00
tblWater	IndoorWaterUseRate	1,438,749.80	0.00
tblWater	IndoorWaterUseRate	118,686,750.00	0.00
tblWater	IndoorWaterUseRate	73,421,875.00	0.00
tblWater	OutdoorWaterUseRate	359,562.36	0.00
tblWater	OutdoorWaterUseRate	91,835.09	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					
2024	181.9884	92.8408	127.0233	0.3280	15.2115	3.3208	18.5323	4.1073	3.1186	7.2260	0.0000	32,761.7062	32,761.7062	3.6679	1.8173	33,394.9635
2025	9.9271	76.9504	101.5830	0.2815	13.1086	2.4156	15.5242	3.5496	2.2736	5.8231	0.0000	28,172.5838	28,172.5838	2.8359	1.7123	28,753.7373
Maximum	**181.9884**	**92.8408**	**127.0233**	**0.3280**	**15.2115**	**3.3208**	**18.5323**	**4.1073**	**3.1186**	**7.2260**	**0.0000**	**32,761.7062**	**32,761.7062**	**3.6679**	**1.8173**	**33,394.9635**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	177.0957	37.5364	135.9002	0.3280	15.2115	0.5948	15.8063	4.1073	0.5844	4.6917	0.0000	32,761.7062	32,761.7062	3.6679	1.8173	33,394.9635
2025	6.2666	35.0080	108.0646	0.2815	13.1086	0.5133	13.6219	3.5496	0.5039	4.0534	0.0000	28,172.5838	28,172.5838	2.8359	1.7123	28,753.7373
Maximum	**177.0957**	**37.5364**	**135.9002**	**0.3280**	**15.2115**	**0.5948**	**15.8063**	**4.1073**	**0.5844**	**4.6917**	**0.0000**	**32,761.7062**	**32,761.7062**	**3.6679**	**1.8173**	**33,394.9635**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.46**	**57.27**	**-6.72**	**0.00**	**0.00**	**80.68**	**13.59**	**0.00**	**79.82**	**32.98**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
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
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**	**0.0000**	**3.2000e-004**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**	**0.0000**	**0.2075**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	6/26/2024	5	75	
3	Architectural Coating	Architectural Coating	3/14/2024	6/26/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 46.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,265,097; Non-Residential Outdoor: 421,699; Striped Parking Area: 121,898

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

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
	Air Compressors	5	6.00	78	0.48
	Cranes	5	7.00	231	0.29
	Forklifts	10	8.00	89	0.20
	Generator Sets	5	8.00	84	0.74
	Tractors/Loaders/Backhoes	10	7.00	97	0.37
	Welders	10	8.00	46	0.45
Building Construction	Cranes	4	7.40	231	0.29
Building Construction	Forklifts	12	8.50	89	0.20
Building Construction	Generator Sets	4	8.50	84	0.74
Building Construction	Tractors/Loaders/Backhoes	12	7.40	97	0.37
Building Construction	Welders	4	8.40	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	36	1,207.00	471.00	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	241.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	6.2281	56.9198	68.4668	0.1141		2.5977	2.5977		2.4435	2.4435		10,823.8944	10,823.8944	2.5586		10,887.8582
Total	**6.2281**	**56.9198**	**68.4668**	**0.1141**		**2.5977**	**2.5977**		**2.4435**	**2.4435**		**10,823.8944**	**10,823.8944**	**2.5586**		**10,887.8582**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5020	21.7344	6.3703	0.0941	3.1933	0.1368	3.3301	0.9196	0.1308	1.0504		9,947.5099	9,947.5099	0.0439	1.4950	10,394.1034
Worker	3.9552	2.8407	29.4946	0.0776	9.9152	0.0469	9.9622	2.6300	0.0432	2.6732		7,838.7404	7,838.7404	0.2769	0.2660	7,924.9172
Total	**4.4573**	**24.5751**	**35.8649**	**0.1716**	**13.1085**	**0.1837**	**13.2922**	**3.5495**	**0.1740**	**3.7236**		**17,786.2503**	**17,786.2503**	**0.3208**	**1.7609**	**18,319.0206**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1941	11.0147	74.6515	0.1141		0.3598	0.3598		0.3598	0.3598	0.0000	10,823.8944	10,823.8944	2.5586		10,887.8582
Total	**2.1941**	**11.0147**	**74.6515**	**0.1141**		**0.3598**	**0.3598**		**0.3598**	**0.3598**	**0.0000**	**10,823.8944**	**10,823.8944**	**2.5586**		**10,887.8582**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5020	21.7344	6.3703	0.0941	3.1933	0.1368	3.3301	0.9196	0.1308	1.0504		9,947.5099	9,947.5099	0.0439	1.4950	10,394.1034
Worker	3.9552	2.8407	29.4946	0.0776	9.9152	0.0469	9.9622	2.6300	0.0432	2.6732		7,838.7404	7,838.7404	0.2769	0.2660	7,924.9172
Total	**4.4573**	**24.5751**	**35.8649**	**0.1716**	**13.1085**	**0.1837**	**13.2922**	**3.5495**	**0.1740**	**3.7236**		**17,786.2503**	**17,786.2503**	**0.3208**	**1.7609**	**18,319.0206**

3.2 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	5.7871	52.7946	68.1193	0.1142		2.2345	2.2345		2.1019	2.1019		10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**5.7871**	**52.7946**	**68.1193**	**0.1142**		**2.2345**	**2.2345**		**2.1019**	**2.1019**		**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4905	21.6427	6.2571	0.0924	3.1934	0.1367	3.3301	0.9196	0.1308	1.0504		9,771.8207	9,771.8207	0.0425	1.4664	10,209.8613
Worker	3.6494	2.5131	27.2067	0.0749	9.9152	0.0444	9.9596	2.6300	0.0409	2.6709		7,573.5896	7,573.5896	0.2492	0.2459	7,653.0985
Total	**4.1399**	**24.1558**	**33.4638**	**0.1674**	**13.1086**	**0.1811**	**13.2897**	**3.5496**	**0.1716**	**3.7212**		**17,345.4103**	**17,345.4103**	**0.2917**	**1.7123**	**17,862.9598**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1267	10.8522	74.6009	0.1142		0.3322	0.3322		0.3322	0.3322	0.0000	10,827.1735	10,827.1735	2.5442		10,890.7775
Total	**2.1267**	**10.8522**	**74.6009**	**0.1142**		**0.3322**	**0.3322**		**0.3322**	**0.3322**	**0.0000**	**10,827.1735**	**10,827.1735**	**2.5442**		**10,890.7775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4905	21.6427	6.2571	0.0924	3.1934	0.1367	3.3301	0.9196	0.1308	1.0504		9,771.8207	9,771.8207	0.0425	1.4664	10,209.8613
Worker	3.6494	2.5131	27.2067	0.0749	9.9152	0.0444	9.9596	2.6300	0.0409	2.6709		7,573.5896	7,573.5896	0.2492	0.2459	7,653.0985
Total	**4.1399**	**24.1558**	**33.4638**	**0.1674**	**13.1086**	**0.1811**	**13.2897**	**3.5496**	**0.1716**	**3.7212**		**17,345.4103**	**17,345.4103**	**0.2917**	**1.7123**	**17,862.9598**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.6175**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870
Total	**0.0492**	**0.0353**	**0.3665**	**9.6000e-004**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**97.4160**	**97.4160**	**3.4400e-003**	**3.3100e-003**	**98.4870**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.6293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9098**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870
Total	**0.0492**	**0.0353**	**0.3665**	**9.6000e-004**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**97.4160**	**97.4160**	**3.4400e-003**	**3.3100e-003**	**98.4870**

3.4 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	167.6659					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
Total	**167.8467**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.7897	0.5672	5.8892	0.0155	1.9798	9.3700e-003	1.9891	0.5251	8.6300e-003	0.5338		1,565.1503	1,565.1503	0.0553	0.0531	1,582.3571
Total	**0.7897**	**0.5672**	**5.8892**	**0.0155**	**1.9798**	**9.3700e-003**	**1.9891**	**0.5251**	**8.6300e-003**	**0.5338**		**1,565.1503**	**1,565.1503**	**0.0553**	**0.0531**	**1,582.3571**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	167.6659					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	0.0159		281.8443
Total	**167.6956**	**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**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7897	0.5672	5.8892	0.0155	1.9798	9.3700e-003	1.9891	0.5251	8.6300e-003	0.5338		1,565.1503	1,565.1503	0.0553	0.0531	1,582.3571
Total	**0.7897**	**0.5672**	**5.8892**	**0.0155**	**1.9798**	**9.3700e-003**	**1.9891**	**0.5251**	**8.6300e-003**	**0.5338**		**1,565.1503**	**1,565.1503**	**0.0553**	**0.0531**	**1,582.3571**

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Convenience Market with Gas Pumps	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

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
Convenience Market with Gas Pumps	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Fast Food Restaurant with Drive Thru	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Industrial Park	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Parking Lot	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296
Unrefrigerated Warehouse-No Rail	0.525357	0.051382	0.167800	0.162287	0.028850	0.007480	0.012195	0.015949	0.000630	0.000469	0.022910	0.001396	0.003296

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Convenience Market with Gas Pumps	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
Fast Food Restaurant with Drive Thru	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
Industrial 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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Unmitigated	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

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
Landscaping	8.3500e-003	8.2000e-004	0.0906	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1948	0.1948	5.1000e-004		0.2075
Total	**8.3500e-003**	**8.2000e-004**	**0.0906**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**		**0.1948**	**0.1948**	**5.1000e-004**		**0.2075**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

Shirk & Riggin Industrial Park Project Phase 2_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024)

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT -

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	PhaseEndDate	12/25/2030	8/14/2024
tblConstructionPhase	PhaseEndDate	2/20/2030	3/13/2025
tblConstructionPhase	PhaseEndDate	7/24/2030	8/14/2024
tblConstructionPhase	PhaseStartDate	7/25/2030	3/14/2024
tblConstructionPhase	PhaseStartDate	2/21/2030	3/14/2024
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	2.92	0.00

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00

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tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	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					
2024	8.2408	12.0840	16.1414	0.0422	1.8123	0.4338	2.2461	0.4913	0.4079	0.8992	0.0000	3,820.9651	3,820.9651	0.4158	0.2110	3,894.2404
2025	0.3438	2.6873	3.5876	9.7100e-003	0.4161	0.0872	0.5034	0.1130	0.0821	0.1951	0.0000	879.8232	879.8232	0.0922	0.0503	897.1109
Maximum	**8.2408**	**12.0840**	**16.1414**	**0.0422**	**1.8123**	**0.4338**	**2.2461**	**0.4913**	**0.4079**	**0.8992**	**0.0000**	**3,820.9651**	**3,820.9651**	**0.4158**	**0.2110**	**3,894.2404**

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					
2024	8.2408	12.0840	16.1414	0.0422	1.8123	0.4338	2.2461	0.4913	0.4079	0.8992	0.0000	3,820.9633	3,820.9633	0.4158	0.2110	3,894.2386
2025	0.3438	2.6873	3.5876	9.7100e-003	0.4161	0.0872	0.5034	0.1130	0.0821	0.1951	0.0000	879.8227	879.8227	0.0922	0.0503	897.1105
Maximum	**8.2408**	**12.0840**	**16.1414**	**0.0422**	**1.8123**	**0.4338**	**2.2461**	**0.4913**	**0.4079**	**0.8992**	**0.0000**	**3,820.9633**	**3,820.9633**	**0.4158**	**0.2110**	**3,894.2386**

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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	N20	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	**3-14-2024**	**6-13-2024**	8.4750	8.4750
2	**6-14-2024**	**9-13-2024**	7.0254	7.0254
3	**9-14-2024**	**12-13-2024**	4.0497	4.0497
4	**12-14-2024**	**3-13-2025**	3.8267	3.8267
		Highest	8.4750	8.4750

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
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
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
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
Total	**8.2000e-004**	**8.0000e-005**	**8.9400e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0174**	**0.0174**	**5.0000e-005**	**0.0000**	**0.0186**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	8/14/2024	5	110	
3	Architectural Coating	Architectural Coating	3/14/2024	8/14/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,886

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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
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	52	1,518.00	592.00	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	304.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2024

Unmitigated Construction On-Site

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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					
Off-Road	0.9115	8.3275	10.0191	0.0167		0.3799	0.3799		0.3574	0.3574	0.0000	1,436.3671	1,436.3671	0.3397	0.0000	1,444.8604
Total	**0.9115**	**8.3275**	**10.0191**	**0.0167**		**0.3799**	**0.3799**		**0.3574**	**0.3574**	**0.0000**	**1,436.3671**	**1,436.3671**	**0.3397**	**0.0000**	**1,444.8604**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0678	2.7865	0.8209	0.0123	0.4090	0.0179	0.4269	0.1182	0.0172	0.1354	0.0000	1,183.9839	1,183.9839	5.3300e-003	0.1779	1,237.1224
Worker	0.5083	0.3413	3.9595	0.0106	1.2636	6.1700e-003	1.2697	0.3359	5.6800e-003	0.3416	0.0000	969.2264	969.2264	0.0309	0.0298	978.8907
Total	**0.5760**	**3.1278**	**4.7804**	**0.0229**	**1.6726**	**0.0241**	**1.6967**	**0.4542**	**0.0228**	**0.4770**	**0.0000**	**2,153.2103**	**2,153.2103**	**0.0362**	**0.2077**	**2,216.0130**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9115	8.3275	10.0191	0.0167		0.3799	0.3799		0.3574	0.3574	0.0000	1,436.3654	1,436.3654	0.3397	0.0000	1,444.8587
Total	**0.9115**	**8.3275**	**10.0191**	**0.0167**		**0.3799**	**0.3799**		**0.3574**	**0.3574**	**0.0000**	**1,436.3654**	**1,436.3654**	**0.3397**	**0.0000**	**1,444.8587**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0678	2.7865	0.8209	0.0123	0.4090	0.0179	0.4269	0.1182	0.0172	0.1354	0.0000	1,183.9839	1,183.9839	5.3300e-003	0.1779	1,237.1224
Worker	0.5083	0.3413	3.9595	0.0106	1.2636	6.1700e-003	1.2697	0.3359	5.6800e-003	0.3416	0.0000	969.2264	969.2264	0.0309	0.0298	978.8907
Total	**0.5760**	**3.1278**	**4.7804**	**0.0229**	**1.6726**	**0.0241**	**1.6967**	**0.4542**	**0.0228**	**0.4770**	**0.0000**	**2,153.2103**	**2,153.2103**	**0.0362**	**0.2077**	**2,216.0130**

3.2 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	0.2107	1.9218	2.4801	4.1600e-003		0.0813	0.0813		0.0765	0.0765	0.0000	357.4823	357.4823	0.0841	0.0000	359.5836
Total	**0.2107**	**1.9218**	**2.4801**	**4.1600e-003**		**0.0813**	**0.0813**		**0.0765**	**0.0765**	**0.0000**	**357.4823**	**357.4823**	**0.0841**	**0.0000**	**359.5836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0165	0.6904	0.2006	3.0200e-003	0.1018	4.4600e-003	0.1062	0.0294	4.2700e-003	0.0337	0.0000	289.3746	289.3746	1.2900e-003	0.0434	302.3426
Worker	0.1166	0.0751	0.9069	2.5400e-003	0.3144	1.4500e-003	0.3158	0.0836	1.3400e-003	0.0849	0.0000	232.9662	232.9662	6.9000e-003	6.8700e-003	235.1848
Total	**0.1331**	**0.7655**	**1.1075**	**5.5600e-003**	**0.4161**	**5.9100e-003**	**0.4221**	**0.1130**	**5.6100e-003**	**0.1186**	**0.0000**	**522.3409**	**522.3409**	**8.1900e-003**	**0.0503**	**537.5273**

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2107	1.9218	2.4801	4.1600e-003		0.0813	0.0813		0.0765	0.0765	0.0000	357.4819	357.4819	0.0841	0.0000	359.5832
Total	**0.2107**	**1.9218**	**2.4801**	**4.1600e-003**		**0.0813**	**0.0813**		**0.0765**	**0.0765**	**0.0000**	**357.4819**	**357.4819**	**0.0841**	**0.0000**	**359.5832**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0165	0.6904	0.2006	3.0200e-003	0.1018	4.4600e-003	0.1062	0.0294	4.2700e-003	0.0337	0.0000	289.3746	289.3746	1.2900e-003	0.0434	302.3426
Worker	0.1166	0.0751	0.9069	2.5400e-003	0.3144	1.4500e-003	0.3158	0.0836	1.3400e-003	0.0849	0.0000	232.9662	232.9662	6.9000e-003	6.8700e-003	235.1848
Total	**0.1331**	**0.7655**	**1.1075**	**5.5600e-003**	**0.4161**	**5.9100e-003**	**0.4221**	**0.1130**	**5.6100e-003**	**0.1186**	**0.0000**	**522.3409**	**522.3409**	**8.1900e-003**	**0.0503**	**537.5273**

3.3 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	0.0544	0.5239	0.8044	1.2500e-003		0.0258	0.0258		0.0237	0.0237	0.0000	110.1459	110.1459	0.0356	0.0000	111.0365

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Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0544**	**0.5239**	**0.8044**	**1.2500e-003**		**0.0258**	**0.0258**		**0.0237**	**0.0237**	**0.0000**	**110.1459**	**110.1459**	**0.0356**	**0.0000**	**111.0365**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6400e-003	1.7700e-003	0.0206	5.0000e-005	6.5700e-003	3.0000e-005	6.6000e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.0407	5.0407	1.6000e-004	1.6000e-004	5.0910
Total	**2.6400e-003**	**1.7700e-003**	**0.0206**	**5.0000e-005**	**6.5700e-003**	**3.0000e-005**	**6.6000e-003**	**1.7500e-003**	**3.0000e-005**	**1.7800e-003**	**0.0000**	**5.0407**	**5.0407**	**1.6000e-004**	**1.6000e-004**	**5.0910**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0544	0.5239	0.8044	1.2500e-003		0.0258	0.0258		0.0237	0.0237	0.0000	110.1458	110.1458	0.0356	0.0000	111.0364
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0544**	**0.5239**	**0.8044**	**1.2500e-003**		**0.0258**	**0.0258**		**0.0237**	**0.0237**	**0.0000**	**110.1458**	**110.1458**	**0.0356**	**0.0000**	**111.0364**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Date: 8/3/2023 3:50 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6400e-003	1.7700e-003	0.0206	5.0000e-005	6.5700e-003	3.0000e-005	6.6000e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.0407	5.0407	1.6000e-004	1.6000e-004	5.0910
Total	**2.6400e-003**	**1.7700e-003**	**0.0206**	**5.0000e-005**	**6.5700e-003**	**3.0000e-005**	**6.6000e-003**	**1.7500e-003**	**3.0000e-005**	**1.7800e-003**	**0.0000**	**5.0407**	**5.0407**	**1.6000e-004**	**1.6000e-004**	**5.0910**

3.4 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	6.6327					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9400e-003	0.0670	0.0996	1.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627
Total	**6.6427**	**0.0670**	**0.0996**	**1.6000e-004**		**3.3500e-003**	**3.3500e-003**		**3.3500e-003**	**3.3500e-003**	**0.0000**	**14.0429**	**14.0429**	**7.9000e-004**	**0.0000**	**14.0627**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0536	0.0360	0.4173	1.1100e-003	0.1332	6.5000e-004	0.1338	0.0354	6.0000e-004	0.0360	0.0000	102.1583	102.1583	3.2600e-003	3.1500e-003	103.7769

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0536**	**0.0360**	**0.4173**	**1.1100e-003**	**0.1332**	**6.5000e-004**	**0.1338**	**0.0354**	**6.0000e-004**	**0.0360**	**0.0000**	**102.1583**	**102.1583**	**3.2600e-003**	**3.1500e-003**	**103.1769**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.6327					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9400e-003	0.0670	0.0996	1.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627
Total	**6.6427**	**0.0670**	**0.0996**	**1.6000e-004**		**3.3500e-003**	**3.3500e-003**		**3.3500e-003**	**3.3500e-003**	**0.0000**	**14.0429**	**14.0429**	**7.9000e-004**	**0.0000**	**14.0627**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0536	0.0360	0.4173	1.1100e-003	0.1332	6.5000e-004	0.1338	0.0354	6.0000e-004	0.0360	0.0000	102.1583	102.1583	3.2600e-003	3.1500e-003	103.1769
Total	**0.0536**	**0.0360**	**0.4173**	**1.1100e-003**	**0.1332**	**6.5000e-004**	**0.1338**	**0.0354**	**6.0000e-004**	**0.0360**	**0.0000**	**102.1583**	**102.1583**	**3.2600e-003**	**3.1500e-003**	**103.1769**

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

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024)

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT -

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	PhaseEndDate	12/25/2030	8/14/2024
tblConstructionPhase	PhaseEndDate	2/20/2030	3/13/2025
tblConstructionPhase	PhaseEndDate	7/24/2030	8/14/2024
tblConstructionPhase	PhaseStartDate	7/25/2030	3/14/2024
tblConstructionPhase	PhaseStartDate	2/21/2030	3/14/2024
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	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					
2024	138.0162	119.6072	173.3671	0.4368	19.1042	4.4078	23.5120	5.1585	4.1413	9.2998	0.0000	43,582.9037	43,582.9037	4.7506	2.2383	44,368.6867
2025	13.9805	101.9918	143.4594	0.3821	16.4838	3.3542	19.8380	4.4635	3.1567	7.6202	0.0000	38,159.9330	38,159.9330	3.9000	2.1167	38,888.2050
Maximum	**138.0162**	**119.6072**	**173.3671**	**0.4368**	**19.1042**	**4.4078**	**23.5120**	**5.1585**	**4.1413**	**9.2998**	**0.0000**	**43,582.9037**	**43,582.9037**	**4.7506**	**2.2383**	**44,368.6867**

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					
2024	138.0162	119.6072	173.3671	0.4368	19.1042	4.4078	23.5120	5.1585	4.1413	9.2998	0.0000	43,582.9037	43,582.9037	4.7506	2.2383	44,368.6867
2025	13.9805	101.9918	143.4594	0.3821	16.4838	3.3542	19.8380	4.4635	3.1567	7.6202	0.0000	38,159.9330	38,159.9330	3.9000	2.1167	38,888.2050
Maximum	**138.0162**	**119.6072**	**173.3671**	**0.4368**	**19.1042**	**4.4078**	**23.5120**	**5.1585**	**4.1413**	**9.2998**	**0.0000**	**43,582.9037**	**43,582.9037**	**4.7506**	**2.2383**	**44,368.6867**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare 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	N20	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**

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**	**0.0000**	**0.2273**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	8/14/2024	5	110	
3	Architectural Coating	Architectural Coating	3/14/2024	8/14/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Construction	52	1,518.00	592.00	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	304.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197		15,151.4225	15,151.4225	3.5837		15,241.0139
Total	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197		15,151.4225	15,151.4225	3.5837		15,241.0139

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6712	25.4834	7.7378	0.1180	4.0137	0.1713	4.1850	1.1558	0.1639	1.3197		12,479.1875	12,479.1875	0.0570	1.8739	13,039.0268

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	5.6675	3.0501	44.0582	0.1101	12.4700	0.0590	12.5290	3.3076	0.0543	3.3620		11,125.3604	11,125.3604	0.3141	0.3012	11,222.9577
Total	6.3387	28.5335	51.7960	0.2281	16.4837	0.2303	16.7140	4.4634	0.2182	4.6816		23,604.5479	23,604.5479	0.3711	2.1750	24,261.9846

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197	0.0000	15,151.4225	15,151.4225	3.5837		15,241.0139
Total	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197	0.0000	15,151.4225	15,151.4225	3.5837		15,241.0139

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6712	25.4834	7.7378	0.1180	4.0137	0.1713	4.1850	1.1558	0.1639	1.3197		12,479.1875	12,479.1875	0.0570	1.8739	13,039.0268
Worker	5.6675	3.0501	44.0582	0.1101	12.4700	0.0590	12.5290	3.3076	0.0543	3.3620		11,125.3604	11,125.3604	0.3141	0.3012	11,222.9577
Total	6.3387	28.5335	51.7960	0.2281	16.4837	0.2303	16.7140	4.4634	0.2182	4.6816		23,604.5479	23,604.5479	0.3711	2.1750	24,261.9846

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6564	25.3763	7.5976	0.1159	4.0138	0.1713	4.1850	1.1558	0.1638	1.3197		12,258.6119	12,258.6119	0.0552	1.8381	12,807.7426
Worker	5.2190	2.6998	40.4720	0.1063	12.4700	0.0559	12.5259	3.3076	0.0514	3.3590		10,745.2907	10,745.2907	0.2813	0.2786	10,835.3444
Total	5.8755	28.0761	48.0695	0.2222	16.4838	0.2271	16.7109	4.4635	0.2152	4.6787		23,003.9025	23,003.9025	0.3365	2.1167	23,643.0870

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6564	25.3763	7.5976	0.1159	4.0138	0.1713	4.1850	1.1558	0.1638	1.3197		12,258.6119	12,258.6119	0.0552	1.8381	12,807.7426
Worker	5.2190	2.6998	40.4720	0.1063	12.4700	0.0559	12.5259	3.3076	0.0514	3.3590		10,745.2907	10,745.2907	0.2813	0.2786	10,835.3444
Total	5.8755	28.0761	48.0695	0.2222	16.4838	0.2271	16.7109	4.4635	0.2152	4.6787		23,003.9025	23,003.9025	0.3365	2.1167	23,643.0870

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988
Total	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988
Total	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988

3.4 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	120.5948					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
Total	120.7756	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1350	0.6108	8.8233	0.0220	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		2,228.0037	2,228.0037	0.0629	0.0603	2,247.5489
Total	1.1350	0.6108	8.8233	0.0220	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		2,228.0037	2,228.0037	0.0629	0.0603	2,247.5489

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	120.5948					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
Total	120.7756	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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1350	0.6108	8.8233	0.0220	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		2,228.0037	2,228.0037	0.0629	0.0603	2,247.5489
Total	1.1350	0.6108	8.8233	0.0220	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		2,228.0037	2,228.0037	0.0629	0.0603	2,247.5489

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

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Industrial Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Other Non-Asphalt Surfaces	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

5.0 Energy Detail

Historical Energy Use: N

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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
Industrial 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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Unmitigated	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024)

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

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4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT -

Grading -

Architectural Coating - Note 6

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	PhaseEndDate	12/25/2030	8/14/2024
tblConstructionPhase	PhaseEndDate	2/20/2030	3/13/2025
tblConstructionPhase	PhaseEndDate	7/24/2030	8/14/2024
tblConstructionPhase	PhaseStartDate	7/25/2030	3/14/2024
tblConstructionPhase	PhaseStartDate	2/21/2030	3/14/2024
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	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					
2024	137.1371	122.0741	165.2088	0.4218	19.1042	4.4084	23.5126	5.1585	4.1419	9.3004	0.0000	42,073.6572	42,073.6572	4.7901	2.2838	42,873.9747
2025	13.3113	104.2791	137.4713	0.3702	16.4838	3.3547	19.8385	4.4635	3.1573	7.6207	0.0000	36,963.2622	36,963.2622	3.9303	2.1523	37,702.9185
Maximum	**137.1371**	**122.0741**	**165.2088**	**0.4218**	**19.1042**	**4.4084**	**23.5126**	**5.1585**	**4.1419**	**9.3004**	**0.0000**	**42,073.6572**	**42,073.6572**	**4.7901**	**2.2838**	**42,873.9747**

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					
2024	137.1371	122.0741	165.2088	0.4218	19.1042	4.4084	23.5126	5.1585	4.1419	9.3004	0.0000	42,073.6571	42,073.6571	4.7901	2.2838	42,873.9747
2025	13.3113	104.2791	137.4713	0.3702	16.4838	3.3547	19.8385	4.4635	3.1573	7.6207	0.0000	36,963.2622	36,963.2622	3.9303	2.1523	37,702.9185
Maximum	**137.1371**	**122.0741**	**165.2088**	**0.4218**	**19.1042**	**4.4084**	**23.5126**	**5.1585**	**4.1419**	**9.3004**	**0.0000**	**42,073.6571**	**42,073.6571**	**4.7901**	**2.2838**	**42,873.9747**

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

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	N20	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

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005	0.0000	3.5000e-004	3.5000e-004	0.0000	3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004	0.0000	0.2273

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005	0.0000	3.5000e-004	3.5000e-004	0.0000	3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004	0.0000	0.2273

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

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	N20	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	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	8/14/2024	5	110	
3	Architectural Coating	Architectural Coating	3/14/2024	8/14/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Construction	52	1,518.00	592.00	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	304.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197		15,151.4225	15,151.4225	3.5837		15,241.0139
Total	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197		15,151.4225	15,151.4225	3.5837		15,241.0139

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6310	27.3179	8.0068	0.1182	4.0137	0.1719	4.1856	1.1558	0.1644	1.3202		12,503.0273	12,503.0273	0.0552	1.8790	12,564.1708

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	4.9744	3.5726	37.0943	0.0975	12.4700	0.0590	12.5290	3.3076	0.0543	3.3620		9,858.4987	9,858.4987	0.3483	0.3345	9,966.8801
Total	5.6054	30.8906	45.1011	0.2158	16.4837	0.2309	16.7146	4.4634	0.2188	4.6822		22,361.5259	22,361.5259	0.4034	2.2135	23,031.2309

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197	0.0000	15,151.4225	15,151.4225	3.5837		15,241.0139
Total	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197	0.0000	15,151.4225	15,151.4225	3.5837		15,241.0139

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6310	27.3179	8.0068	0.1182	4.0137	0.1719	4.1856	1.1558	0.1644	1.3202		12,503.0273	12,503.0273	0.0552	1.8790	13,064.3508
Worker	4.9744	3.5726	37.0943	0.0975	12.4700	0.0590	12.5290	3.3076	0.0543	3.3620		9,858.4987	9,858.4987	0.3483	0.3345	9,966.8801
Total	5.6054	30.8906	45.1011	0.2158	16.4837	0.2309	16.7146	4.4634	0.2188	4.6822		22,361.5259	22,361.5259	0.4034	2.2135	23,031.2309

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6165	27.2027	7.8646	0.1162	4.0138	0.1718	4.1856	1.1558	0.1644	1.3202		12,282.2036	12,282.2036	0.0534	1.8431	12,832.7768
Worker	4.5898	3.1607	34.2168	0.0942	12.4700	0.0559	12.5259	3.3076	0.0514	3.3590		9,525.0282	9,525.0282	0.3134	0.3093	9,625.0237
Total	5.2062	30.3634	42.0814	0.2104	16.4838	0.2277	16.7115	4.4635	0.2158	4.6792		21,807.2317	21,807.2317	0.3668	2.1523	22,457.8005

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6165	27.2027	7.8646	0.1162	4.0138	0.1718	4.1856	1.1558	0.1644	1.3202		12,282.2036	12,282.2036	0.0534	1.8431	12,832.7768
Worker	4.5898	3.1607	34.2168	0.0942	12.4700	0.0559	12.5259	3.3076	0.0514	3.3590		9,525.0282	9,525.0282	0.3134	0.3093	9,625.0237
Total	5.2062	30.3634	42.0814	0.2104	16.4838	0.2277	16.7115	4.4635	0.2158	4.6792		21,807.2317	21,807.2317	0.3668	2.1523	22,457.8005

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870
Total	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870
Total	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	120.5948					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
Total	120.7756	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9962	0.7155	7.4286	0.0195	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		1,974.2975	1,974.2975	0.0697	0.0670	1,996.0023
Total	0.9962	0.7155	7.4286	0.0195	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		1,974.2975	1,974.2975	0.0697	0.0670	1,996.0023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	120.5948					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
Total	120.7756	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

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9962	0.7155	7.4286	0.0195	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		1,974.2975	1,974.2975	0.0697	0.0670	1,996.0023
Total	0.9962	0.7155	7.4286	0.0195	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		1,974.2975	1,974.2975	0.0697	0.0670	1,996.0023

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Industrial Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Other Non-Asphalt Surfaces	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Unmitigated	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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

4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024)

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT -

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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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
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	PhaseEndDate	12/25/2030	8/14/2024
tblConstructionPhase	PhaseEndDate	2/20/2030	3/13/2025
tblConstructionPhase	PhaseEndDate	7/24/2030	8/14/2024
tblConstructionPhase	PhaseStartDate	7/25/2030	3/14/2024
tblConstructionPhase	PhaseStartDate	2/21/2030	3/14/2024
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	0.00

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare 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

	ROG	NOx	CO	SO2	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					
2024	8.2408	12.0840	16.1414	0.0422	1.8123	0.4338	2.2461	0.4913	0.4079	0.8992	0.0000	3,820.9651	3,820.9651	0.4158	0.2110	3,894.2404
2025	0.3438	2.6873	3.5876	9.7100e-003	0.4161	0.0872	0.5034	0.1130	0.0821	0.1951	0.0000	879.8232	879.8232	0.0922	0.0503	897.1109
Maximum	8.2408	12.0840	16.1414	0.0422	1.8123	0.4338	2.2461	0.4913	0.4079	0.8992	0.0000	3,820.9651	3,820.9651	0.4158	0.2110	3,894.2404

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					
2024	7.6040	4.8569	17.1933	0.0422	1.8123	0.0799	1.8922	0.4913	0.0786	0.5699	0.0000	3,820.9633	3,820.9633	0.4158	0.2110	3,894.2386
2025	0.2107	1.1620	3.8233	9.7100e-003	0.4161	0.0181	0.4342	0.1130	0.0177	0.1307	0.0000	879.8227	879.8227	0.0922	0.0503	897.1105
Maximum	7.6040	4.8569	17.1933	0.0422	1.8123	0.0799	1.8922	0.4913	0.0786	0.5699	0.0000	3,820.9633	3,820.9633	0.4158	0.2110	3,894.2386

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	8.97	59.25	-6.53	0.00	0.00	81.20	15.39	0.00	80.34	35.97	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	3-14-2024	6-13-2024	8.4750	5.8428
2	6-14-2024	9-13-2024	7.0254	4.5031

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3	**9-14-2024**	**12-13-2024**	4.0497	1.7794
4	**12-14-2024**	**3-13-2025**	3.8267	1.7375
		Highest	8.4750	5.8428

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
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
Total	8.2000e-004	8.0000e-005	8.9400e-003	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186

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	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
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

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Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.2000e-004	8.0000e-005	8.9400e-003	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	8/14/2024	5	110	
3	Architectural Coating	Architectural Coating	3/14/2024	8/14/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74

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Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	52	1,518.00	592.00	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	304.00	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

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	0.9115	8.3275	10.0191	0.0167		0.3799	0.3799		0.3574	0.3574	0.0000	1,436.3671	1,436.3671	0.3397	0.0000	1,444.8604
Total	0.9115	8.3275	10.0191	0.0167		0.3799	0.3799		0.3574	0.3574	0.0000	1,436.3671	1,436.3671	0.3397	0.0000	1,444.8604

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0678	2.7865	0.8209	0.0123	0.4090	0.0179	0.4269	0.1182	0.0172	0.1354	0.0000	1,183.9839	1,183.9839	5.3300e-003	0.1779	1,237.1224
Worker	0.5083	0.3413	3.9595	0.0106	1.2636	6.1700e-003	1.2697	0.3359	5.6800e-003	0.3416	0.0000	969.2264	969.2264	0.0309	0.0298	978.8907
Total	0.5760	3.1278	4.7804	0.0229	1.6726	0.0241	1.6967	0.4542	0.0228	0.4770	0.0000	2,153.2103	2,153.2103	0.0362	0.2077	2,216.0130

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3220	1.6174	10.9230	0.0167		0.0529	0.0529		0.0529	0.0529	0.0000	1,436.3654	1,436.3654	0.3397	0.0000	1,444.8587
Total	0.3220	1.6174	10.9230	0.0167		0.0529	0.0529		0.0529	0.0529	0.0000	1,436.3654	1,436.3654	0.3397	0.0000	1,444.8587

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0678	2.7865	0.8209	0.0123	0.4090	0.0179	0.4269	0.1182	0.0172	0.1354	0.0000	1,183.9839	1,183.9839	5.3300e-003	0.1779	1,237.1224
Worker	0.5083	0.3413	3.9595	0.0106	1.2636	6.1700e-003	1.2697	0.3359	5.6800e-003	0.3416	0.0000	969.2264	969.2264	0.0309	0.0298	978.8907
Total	0.5760	3.1278	4.7804	0.0229	1.6726	0.0241	1.6967	0.4542	0.0228	0.4770	0.0000	2,153.2103	2,153.2103	0.0362	0.2077	2,216.0130

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3.2 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	0.2107	1.9218	2.4801	4.1600e-003		0.0813	0.0813		0.0765	0.0765	0.0000	357.4823	357.4823	0.0841	0.0000	359.5836
Total	0.2107	1.9218	2.4801	4.1600e-003		0.0813	0.0813		0.0765	0.0765	0.0000	357.4823	357.4823	0.0841	0.0000	359.5836

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0165	0.6904	0.2006	3.0200e-003	0.1018	4.4600e-003	0.1062	0.0294	4.2700e-003	0.0337	0.0000	289.3746	289.3746	1.2900e-003	0.0434	302.3426
Worker	0.1166	0.0751	0.9069	2.5400e-003	0.3144	1.4500e-003	0.3158	0.0836	1.3400e-003	0.0849	0.0000	232.9662	232.9662	6.9000e-003	6.8700e-003	235.1848
Total	0.1331	0.7655	1.1075	5.5600e-003	0.4161	5.9100e-003	0.4221	0.1130	5.6100e-003	0.1186	0.0000	522.3409	522.3409	8.1900e-003	0.0503	537.5273

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0776	0.3965	2.7158	4.1600e-003		0.0121	0.0121		0.0121	0.0121	0.0000	357.4819	357.4819	0.0841	0.0000	359.5832
Total	0.0776	0.3965	2.7158	4.1600e-003		0.0121	0.0121		0.0121	0.0121	0.0000	357.4819	357.4819	0.0841	0.0000	359.5832

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0165	0.6904	0.2006	3.0200e-003	0.1018	4.4600e-003	0.1062	0.0294	4.2700e-003	0.0337	0.0000	289.3746	289.3746	1.2900e-003	0.0434	302.3426
Worker	0.1166	0.0751	0.9069	2.5400e-003	0.3144	1.4500e-003	0.3158	0.0836	1.3400e-003	0.0849	0.0000	232.9662	232.9662	6.9000e-003	6.8700e-003	235.1848
Total	0.1331	0.7655	1.1075	5.5600e-003	0.4161	5.9100e-003	0.4221	0.1130	5.6100e-003	0.1186	0.0000	522.3409	522.3409	8.1900e-003	0.0503	537.5273

3.3 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	0.0544	0.5239	0.8044	1.2500e-003		0.0258	0.0258		0.0237	0.0237	0.0000	110.1459	110.1459	0.0356	0.0000	111.0365
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0544	0.5239	0.8044	1.2500e-003		0.0258	0.0258		0.0237	0.0237	0.0000	110.1459	110.1459	0.0356	0.0000	111.0365

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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Worker	2.6400e-003	1.7700e-003	0.0206	5.0000e-005	6.5700e-003	3.0000e-005	6.6000e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.0407	5.0407	1.6000e-004	1.6000e-004	5.0910
Total	2.6400e-003	1.7700e-003	0.0206	5.0000e-005	6.5700e-003	3.0000e-005	6.6000e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.0407	5.0407	1.6000e-004	1.6000e-004	5.0910

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0154	0.0669	0.9513	1.2500e-003		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	110.1458	110.1458	0.0356	0.0000	111.0364
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0154	0.0669	0.9513	1.2500e-003		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	110.1458	110.1458	0.0356	0.0000	111.0364

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6400e-003	1.7700e-003	0.0206	5.0000e-005	6.5700e-003	3.0000e-005	6.6000e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.0407	5.0407	1.6000e-004	1.6000e-004	5.0910
Total	2.6400e-003	1.7700e-003	0.0206	5.0000e-005	6.5700e-003	3.0000e-005	6.6000e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.0407	5.0407	1.6000e-004	1.6000e-004	5.0910

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3.4 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	6.6327					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9400e-003	0.0670	0.0996	1.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627
Total	6.6427	0.0670	0.0996	1.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0536	0.0360	0.4173	1.1100e-003	0.1332	6.5000e-004	0.1338	0.0354	6.0000e-004	0.0360	0.0000	102.1583	102.1583	3.2600e-003	3.1500e-003	103.1769
Total	0.0536	0.0360	0.4173	1.1100e-003	0.1332	6.5000e-004	0.1338	0.0354	6.0000e-004	0.0360	0.0000	102.1583	102.1583	3.2600e-003	3.1500e-003	103.1769

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.6327					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	7.0800e-003	0.1008	1.6000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627
Total	6.6344	7.0800e-003	0.1008	1.6000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0536	0.0360	0.4173	1.1100e-003	0.1332	6.5000e-004	0.1338	0.0354	6.0000e-004	0.0360	0.0000	102.1583	102.1583	3.2600e-003	3.1500e-003	103.1769
Total	0.0536	0.0360	0.4173	1.1100e-003	0.1332	6.5000e-004	0.1338	0.0354	6.0000e-004	0.0360	0.0000	102.1583	102.1583	3.2600e-003	3.1500e-003	103.1769

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	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

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Industrial Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Other Non-Asphalt Surfaces	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

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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	tons/yr										MT/yr					
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
Industrial 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
Other Non-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	0.0000
Unrefrigerated Warehouse-No Rail	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	tons/yr										MT/yr					
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
Industrial 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
Other Non-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	0.0000
Unrefrigerated Warehouse-No Rail	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	tons/yr										MT/yr					
Mitigated	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Unmitigated	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Total	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186

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

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Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186
Total	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0174	0.0174	5.0000e-005	0.0000	0.0186

7.0 Water Detail

7.1 Mitigation Measures Water

	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
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	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
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024)

Tulare County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT -

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare 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
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	PhaseEndDate	12/25/2030	8/14/2024
tblConstructionPhase	PhaseEndDate	2/20/2030	3/13/2025
tblConstructionPhase	PhaseEndDate	7/24/2030	8/14/2024
tblConstructionPhase	PhaseStartDate	7/25/2030	3/14/2024
tblConstructionPhase	PhaseStartDate	2/21/2030	3/14/2024
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	0.00

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare 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

	ROG	NOx	CO	SO2	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					
2024	138.0162	119.6072	173.3671	0.4368	19.1042	4.4078	23.5120	5.1585	4.1413	9.2998	0.0000	43,582.9037	43,582.9037	4.7506	2.2383	44,368.6867
2025	13.9805	101.9918	143.4594	0.3821	16.4838	3.3542	19.8380	4.4635	3.1567	7.6202	0.0000	38,159.9330	38,159.9330	3.9000	2.1167	38,888.2050
Maximum	138.0162	119.6072	173.3671	0.4368	19.1042	4.4078	23.5120	5.1585	4.1413	9.2998	0.0000	43,582.9037	43,582.9037	4.7506	2.2383	44,368.6867

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					
2024	131.5160	45.9964	184.7086	0.4368	19.1042	0.7898	19.8940	5.1585	0.7767	5.9352	0.0000	43,582.9037	43,582.9037	4.7506	2.2383	44,368.6867
2025	8.8616	43.3246	152.5241	0.3821	16.4838	0.6939	17.1777	4.4635	0.6820	5.1455	0.0000	38,159.9330	38,159.9330	3.9000	2.1167	38,888.2050
Maximum	131.5160	45.9964	184.7086	0.4368	19.1042	0.7898	19.8940	5.1585	0.7767	5.9352	0.0000	43,582.9037	43,582.9037	4.7506	2.2383	44,368.6867

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	7.64	59.69	-6.44	0.00	0.00	80.88	14.48	0.00	80.01	34.51	0.00	0.00	0.00	0.00	0.00	0.00

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare 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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005	0.0000	3.5000e-004	3.5000e-004	0.0000	3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004	0.0000	0.2273

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005	0.0000	3.5000e-004	3.5000e-004	0.0000	3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004	0.0000	0.2273

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	8/14/2024	5	110	
3	Architectural Coating	Architectural Coating	3/14/2024	8/14/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Construction	52	1,518.00	592.00	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	304.00	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

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197		15,151.4225	15,151.4225	3.5837		15,241.0139
Total	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197		15,151.4225	15,151.4225	3.5837		15,241.0139

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6712	25.4834	7.7378	0.1180	4.0137	0.1713	4.1850	1.1558	0.1639	1.3197		12,479.1875	12,479.1875	0.0570	1.8739	13,039.0268

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	5.6675	3.0501	44.0582	0.1101	12.4700	0.0590	12.5290	3.3076	0.0543	3.3620		11,125.3604	11,125.3604	0.3141	0.3012	11,222.9577
Total	6.3387	28.5335	51.7960	0.2281	16.4837	0.2303	16.7140	4.4634	0.2182	4.6816		23,604.5479	23,604.5479	0.3711	2.1750	24,261.9846

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0813	15.4778	104.5259	0.1598		0.5057	0.5057		0.5057	0.5057	0.0000	15,151.4225	15,151.4225	3.5837		15,241.0139
Total	3.0813	15.4778	104.5259	0.1598		0.5057	0.5057		0.5057	0.5057	0.0000	15,151.4225	15,151.4225	3.5837		15,241.0139

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6712	25.4834	7.7378	0.1180	4.0137	0.1713	4.1850	1.1558	0.1639	1.3197		12,479.1875	12,479.1875	0.0570	1.8739	13,039.0268
Worker	5.6675	3.0501	44.0582	0.1101	12.4700	0.0590	12.5290	3.3076	0.0543	3.3620		11,125.3604	11,125.3604	0.3141	0.3012	11,222.9577
Total	6.3387	28.5335	51.7960	0.2281	16.4837	0.2303	16.7140	4.4634	0.2182	4.6816		23,604.5479	23,604.5479	0.3711	2.1750	24,261.9846

3.2 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	3.1681	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,243.1181

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6564	25.3763	7.5976	0.1159	4.0138	0.1713	4.1850	1.1558	0.1638	1.3197		12,258.6119	12,258.6119	0.0552	1.8381	12,807.7426
Worker	5.2190	2.6998	40.4720	0.1063	12.4700	0.0559	12.5259	3.3076	0.0514	3.3590		10,745.2907	10,745.2907	0.2813	0.2786	10,835.3444
Total	5.8755	28.0761	48.0695	0.2222	16.4838	0.2271	16.7109	4.4635	0.2152	4.6787		23,003.9025	23,003.9025	0.3365	2.1167	23,643.0870

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9861	15.2485	104.4546	0.1598		0.4668	0.4668		0.4668	0.4668	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	2.9861	15.2485	104.4546	0.1598		0.4668	0.4668		0.4668	0.4668	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6564	25.3763	7.5976	0.1159	4.0138	0.1713	4.1850	1.1558	0.1638	1.3197		12,258.6119	12,258.6119	0.0552	1.8381	12,807.7426
Worker	5.2190	2.6998	40.4720	0.1063	12.4700	0.0559	12.5259	3.3076	0.0514	3.3590		10,745.2907	10,745.2907	0.2813	0.2786	10,835.3444
Total	5.8755	28.0761	48.0695	0.2222	16.4838	0.2271	16.7109	4.4635	0.2152	4.6787		23,003.9025	23,003.9025	0.3365	2.1167	23,643.0870

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988
Total	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0560	0.0301	0.4354	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		109.9344	109.9344	3.1000e-003	2.9800e-003	110.8988
Total	**0.0560**	**0.0301**	**0.4354**	**1.0900e-003**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**109.9344**	**109.9344**	**3.1000e-003**	**2.9800e-003**	**110.8988**

3.4 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	120.5948					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
Total	120.7756	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	1.1350	0.6108	8.8233	0.0220	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		2,228.0037	2,228.0037	0.0629	0.0603	2,247.5489
Total	1.1350	0.6108	8.8233	0.0220	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		2,228.0037	2,228.0037	0.0629	0.0603	2,247.5489

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	120.5948					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	0.0159		281.8443
Total	120.6246	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	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1350	0.6108	8.8233	0.0220	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		2,228.0037	2,228.0037	0.0629	0.0603	2,247.5489
Total	1.1350	0.6108	8.8233	0.0220	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		2,228.0037	2,228.0037	0.0629	0.0603	2,247.5489

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare 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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Industrial Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Other Non-Asphalt Surfaces	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare 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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Unmitigated	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024)

Tulare County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	779.30	1000sqft	17.89	779,300.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Other Non-Asphalt Surfaces	31.30	Acre	31.30	1,363,428.00	0
City Park	30.69	Acre	30.69	1,336,856.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment - Note 3

Off-road Equipment - A

Off-road Equipment -

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT -

Grading -

Architectural Coating - Note 8

Vehicle Trips - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 8

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	456551	0
tblAreaCoating	Area_Nonresidential_Interior	1369652	0
tblAreaCoating	Area_Parking	81806	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

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
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	PhaseEndDate	12/25/2030	8/14/2024
tblConstructionPhase	PhaseEndDate	2/20/2030	3/13/2025
tblConstructionPhase	PhaseEndDate	7/24/2030	8/14/2024
tblConstructionPhase	PhaseStartDate	7/25/2030	3/14/2024
tblConstructionPhase	PhaseStartDate	2/21/2030	3/14/2024
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	2.92	0.00
tblEnergyUse	LightingElect	3.22	0.00
tblEnergyUse	NT24E	3.58	0.00
tblEnergyUse	NT24E	5.13	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	2.34	0.00
tblEnergyUse	T24E	0.93	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	16.86	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	7.00	7.80
tblOffRoadEquipment	UsageHours	8.00	7.90
tblSolidWaste	SolidWasteGenerationRate	2.64	0.00
tblSolidWaste	SolidWasteGenerationRate	966.33	0.00
tblSolidWaste	SolidWasteGenerationRate	125.77	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	180,213,125.00	0.00
tblWater	IndoorWaterUseRate	30,941,250.00	0.00
tblWater	OutdoorWaterUseRate	36,566,562.62	0.00

2.0 Emissions Summary

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	137.1371	122.0741	165.2088	0.4218	19.1042	4.4084	23.5126	5.1585	4.1419	9.3004	0.0000	42,073.6572	42,073.6572	4.7901	2.2838	42,873.9747
2025	13.3113	104.2791	137.4713	0.3702	16.4838	3.3547	19.8385	4.4635	3.1573	7.6207	0.0000	36,963.2622	36,963.2622	3.9303	2.1523	37,702.9185
Maximum	137.1371	122.0741	165.2088	0.4218	19.1042	4.4084	23.5126	5.1585	4.1419	9.3004	0.0000	42,073.6572	42,073.6572	4.7901	2.2838	42,873.9747

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					
2024	130.6370	48.4633	176.5503	0.4218	19.1042	0.7904	19.8946	5.1585	0.7773	5.9358	0.0000	42,073.6571	42,073.6571	4.7901	2.2838	42,873.9747
2025	8.1923	45.6119	146.5359	0.3702	16.4838	0.6945	17.1782	4.4635	0.6826	5.1460	0.0000	36,963.2622	36,963.2622	3.9303	2.1523	37,702.9185
Maximum	**130.6370**	**48.4633**	**176.5503**	**0.4218**	**19.1042**	**0.7904**	**19.8946**	**5.1585**	**0.7773**	**5.9358**	**0.0000**	**42,073.6571**	**42,073.6571**	**4.7901**	**2.2838**	**42,873.9747**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	7.72	58.44	-6.74	0.00	0.00	80.87	14.48	0.00	80.00	34.51	0.00	0.00	0.00	0.00	0.00	0.00

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005	0.0000	3.5000e-004	3.5000e-004	0.0000	3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004	0.0000	0.2273

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
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
Total	9.1400e-003	9.0000e-004	0.0993	1.0000e-005	0.0000	3.5000e-004	3.5000e-004	0.0000	3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004	0.0000	0.2273

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/14/2024	3/13/2025	5	261	
2	Paving	Paving	3/14/2024	8/14/2024	5	110	
3	Architectural Coating	Architectural Coating	3/14/2024	8/14/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,369,652; Non-Residential Outdoor: 456,551; Striped Parking Area: 81,806

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	6	6.90	231	0.29
Building Construction	Forklifts	18	7.90	89	0.20
Building Construction	Generator Sets	6	7.90	84	0.74
Building Construction	Tractors/Loaders/Backhoes	16	7.80	97	0.37
Building Construction	Welders	6	7.90	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Construction	52	1,518.00	592.00	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	304.00	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

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197		15,151.4225	15,151.4225	3.5837		15,241.0139
Total	8.7227	79.6894	95.8766	0.1598		3.6356	3.6356		3.4197	3.4197		15,151.4225	15,151.4225	3.5837		15,241.0139

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.6310	27.3179	8.0068	0.1182	4.0137	0.1719	4.1856	1.1558	0.1644	1.3202		12,503.0273	12,503.0273	0.0552	1.8790	13,064.3508
Worker	4.9744	3.5726	37.0943	0.0975	12.4700	0.0590	12.5290	3.3076	0.0543	3.3620		9,858.4987	9,858.4987	0.3483	0.3345	9,966.8801
Total	5.6054	30.8906	45.1011	0.2158	16.4837	0.2309	16.7146	4.4634	0.2188	4.6822		22,361.5259	22,361.5259	0.4034	2.2135	23,031.2309

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0813	15.4778	104.5259	0.1598		0.5057	0.5057		0.5057	0.5057	0.0000	15,151.4225	15,151.4225	3.5837		15,241.0139
Total	3.0813	15.4778	104.5259	0.1598		0.5057	0.5057		0.5057	0.5057	0.0000	15,151.4225	15,151.4225	3.5837		15,241.0139

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6310	27.3179	8.0068	0.1182	4.0137	0.1719	4.1856	1.1558	0.1644	1.3202		12,503.0273	12,503.0273	0.0552	1.8790	13,064.3508
Worker	4.9744	3.5726	37.0943	0.0975	12.4700	0.0590	12.5290	3.3076	0.0543	3.3620		9,858.4987	9,858.4987	0.3483	0.3345	9,966.8801
Total	5.6054	30.8906	45.1011	0.2158	16.4837	0.2309	16.7146	4.4634	0.2188	4.6822		22,361.5259	22,361.5259	0.4034	2.2135	23,031.2309

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181
Total	8.1051	73.9158	95.3899	0.1598		3.1271	3.1271		2.9415	2.9415		15,156.0305	15,156.0305	3.5635		15,245.1181

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6165	27.2027	7.8646	0.1162	4.0138	0.1718	4.1856	1.1558	0.1644	1.3202		12,282.2036	12,282.2036	0.0534	1.8431	12,832.7768
Worker	4.5898	3.1607	34.2168	0.0942	12.4700	0.0559	12.5259	3.3076	0.0514	3.3590		9,525.0282	9,525.0282	0.3134	0.3093	9,625.0237
Total	5.2062	30.3634	42.0814	0.2104	16.4838	0.2277	16.7115	4.4635	0.2158	4.6792		21,807.2317	21,807.2317	0.3668	2.1523	22,457.8005

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9861	15.2485	104.4546	0.1598		0.4668	0.4668		0.4668	0.4668	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180
Total	2.9861	15.2485	104.4546	0.1598		0.4668	0.4668		0.4668	0.4668	0.0000	15,156.0305	15,156.0305	3.5635		15,245.1180

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6165	27.2027	7.8646	0.1162	4.0138	0.1718	4.1856	1.1558	0.1644	1.3202		12,282.2036	12,282.2036	0.0534	1.8431	12,832.7768
Worker	4.5898	3.1607	34.2168	0.0942	12.4700	0.0559	12.5259	3.3076	0.0514	3.3590		9,525.0282	9,525.0282	0.3134	0.3093	9,625.0237
Total	5.2062	30.3634	42.0814	0.2104	16.4838	0.2277	16.7115	4.4635	0.2158	4.6792		21,807.2317	21,807.2317	0.3668	2.1523	22,457.8005

3.3 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		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870
Total	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870
Total	0.0492	0.0353	0.3665	9.6000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.4160	97.4160	3.4400e-003	3.3100e-003	98.4870

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	120.5948					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
Total	120.7756	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9962	0.7155	7.4286	0.0195	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		1,974.2975	1,974.2975	0.0697	0.0670	1,996.0023
Total	**0.9962**	**0.7155**	**7.4286**	**0.0195**	**2.4973**	**0.0118**	**2.5091**	**0.6624**	**0.0109**	**0.6733**		**1,974.2975**	**1,974.2975**	**0.0697**	**0.0670**	**1,996.0023**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	120.5948					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	0.0159		281.8443
Total	120.6246	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	0.0159		281.8443

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9962	0.7155	7.4286	0.0195	2.4973	0.0118	2.5091	0.6624	0.0109	0.6733		1,974.2975	1,974.2975	0.0697	0.0670	1,996.0023
Total	**0.9962**	**0.7155**	**7.4286**	**0.0195**	**2.4973**	**0.0118**	**2.5091**	**0.6624**	**0.0109**	**0.6733**		**1,974.2975**	**1,974.2975**	**0.0697**	**0.0670**	**1,996.0023**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Industrial Park	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Other Non-Asphalt Surfaces	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440
Unrefrigerated Warehouse-No Rail	0.517894	0.051230	0.167424	0.168335	0.030187	0.007736	0.012128	0.015870	0.000634	0.000470	0.023223	0.001430	0.003440

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

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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
Industrial 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
Other Non-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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Unmitigated	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273

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
Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

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

Shirk & Riggin Industrial Park Project Construction Phase 3_Mitigated (2024) - Tulare County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Landscaping	9.1400e-003	9.0000e-004	0.0993	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		0.2134	0.2134	5.6000e-004		0.2273
Total	**9.1400e-003**	**9.0000e-004**	**0.0993**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**0.2134**	**0.2134**	**5.6000e-004**		**0.2273**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Emission Calculation Details for **Mobile Source Off-Model Updates**

Operational modeling output results from CalEEMod2020.4.0 were updated for on-road mobile sources utilizing the latest traffic data and most recent version of EMFAC2021 version 1.0.2. The calculations follow the methodologies used in the CalEEMod Version 2022.1.

Area source and Energy source emissions presented in this report are from from the CalEEMod2020.4.0 model runs.

The following summarizes the metholodogy used to update the emissions for mobile sources and is excerpted from Appendix C of the CalEEMod Users Manual.

Fleet mixes were based on Tulare County level data for 2025 - 2028. For each desired calendar year (2024–2028), vehicle model year, vehicle type and season (Annual, Summer, and Winter), detailed daily EMFAC2021 inventory outputs were obtained from the CARB Web version of EMFAC2021 (v1.0.2) for Tulare County. The web tool was run for all fuel types (e.g., gasoline, diesel, and electric) for the aggregated speed option. The EMFAC2021 v1.02 emissions data is the basis of "CalEEMod" emission factors used for the off-model update.

EMFAC2021 emission rate data for each vehicle class includes multiple emission types that are presented with varying units. Running and mechanical emissions are presented in units of grams per mile (g/mile), while starting and evaporative emissions are presented in units of grams per trip (g/trip), and idling emissions are presented in units of grams per vehicle per day (g/vehicle/day). The emission rate data in EMFAC2021 is not readily available in a format that is compatible with CalEEMod vehicle emission factor formats. In addition, EMFAC2021 emission rate data is presented for vehicle class and fuel type combinations while CalEEMod vehicle emission factors are aggregated over all fuel types for each vehicle class. Thus, emission rates output by EMFAC2021 are not directly used. Rather, post-processed EMFAC2021 emission inventory and activity data are the basis for CalEEMod vehicle emission factors. Emission type and fuel type data are aggregated for each vehicle class to develop emission factors by vehicle class for use in CalEEMod.

The following sections describe the methodology by which EMFAC2021 emissions inventory and activity data were processed to develop vehicles emission rates for CalEEMod. Following this, the equations and variables used to develop emission factors for road dust are provided.

EMFAC2021 Emissions Invenory Units versus CalEEMod Emission Factor Units

In CalEEMod, running emission factors for all pollutants and PM emissions from tire and brake wear are in units of grams per vehicle miles traveled (g/VMT). For all other emission types, emission factors are in units of g/trip (derived as total emissions divided by the total number of trips). Table C-8 summarizes the acronyms, descriptions, and units of each vehicle emission type and activity in EMFAC2021 and the corresponding emission factor units as presented in CalEEMod.

Table C-8. EMFAC2021 Emission Types and Activity

EMFAC2021 Acronyms for Each Vehicle Emission Type	EMFAC2021 Description of Each Vehicle Emission Type	EMFAC2021 Emission Rate Unit	CalEEMod Emission Factor Unit
RUNEX	Running exhaust	short tons/day	g/mile
PMBW	PM brakewear	short tons/day	g/mile
PMTW	PM tirewear	short tons/day	g/mile
STREX	Start exhaust	short tons/day	g/trip
HTSK	Hot Soak evaporative	short tons/day	g/trip
RUNLS	Running Loss evaporative	short tons/day	g/trip
IDLEX	Idle exhaust	short tons/day	g/trip
RESTL	Resting Loss evaporative	short tons/day	g/trip
DIURN	Diurnal Loss evaporative	short tons/day	g/trip
VMT	Vehicle miles traveled	miles/day	miles (per day, per season, or per year)
Trip	Total trips per day of a vehicle class	trips/day	trips (per day, per season, or per year)
Population	Vehicle population	vehicle	vehicle

Conversion from EMFAC2021 Emissions Inventory to CalEEMod Emission Factors

EMFAC2021 emissions are disaggregated by fuel types while CalEEMod vehicle emission factors are aggregated across fuel types. Therefore, CalEEMod emission factors were estimated based on average EMFAC2021 emission rates for each vehicle type, weighted according to annual VMT, annual trips, or vehicle population.

CalEEMod emission factors for each emission mode by vehicle class were calculated based on EMFAC2021 emissions inventory output according to the following equations. Emission factors were combined across fuel types for each emission mode by weighting according to the same activity types (i.e., VMT or trips) as applied in the following equations.

CalEEMod emission factors of all vehicle classes are calculated according to the following equations.

$$RUNEX_{CalEEMod} = \sum_{i,j}\left[\left(\frac{RUNEX_{DailyEmissions}}{VMT} \times UC\right)_{i,j} \times \frac{VMT_{i,j}}{\sum VMT}\right]$$

$$PMBW_{CalEEMod} = \sum_{i,j}\left[\left(\frac{PMBW_{DailyEmissions}}{VMT} \times UC\right)_{i,j} \times \frac{VMT_{i,j}}{\sum VMT}\right]$$

$$PMTW_{CalEEMod} = \sum_{i,j}\left[\left(\frac{PMTW_{DailyEmissions}}{VMT} \times UC\right)_{i,j} \times \frac{VMT_{i,j}}{\sum VMT}\right]$$

$$STREX_{CalEEMod} = \sum_{i,j}\left[\left(\frac{STREX_{DailyEmissions}}{Trips} \times UC\right)_{i,j} \times \frac{Trips_{i,j}}{\sum Trips}\right]$$

$$HTSK_{CalEEMod} = \sum_{i,j}\left[\left(\frac{HTSK_{DailyEmissions}}{Trips} \times UC\right)_{i,j} \times \frac{Trips_{i,j}}{\sum Trips}\right]$$

$$DIURN_{CalEEMod} = \sum_{i,j}\left[\left(\frac{DIURN_{DailyEmissions}}{Trips} \times UC\right)_{i,j} \times \frac{Trips_{i,j}}{\sum Trips}\right]$$

$$RESTL_{CalEEMod} = \sum_{i,j}\left[\left(\frac{REST_{DailyEmissions}}{Trips} \times UC\right)_{i,j} \times \frac{Trips_{i,j}}{\sum Trips}\right]$$

$$RUNLS_{CalEEMod} = \sum_{i,j}\left[\left(\frac{RUNLS_{DailyEmissions}}{Trips} \times UC\right)_{i,j} \times \frac{VMT_{i,j}}{\sum VMT}\right]$$

$$IDLEX_{CalEEMod} = \sum_{i,j}\left[\left(\frac{IDLEX_{DailyEmissions}}{Trips} \times UC\right)_{i,j} \times \frac{Pop_{i,j}}{\sum Pop}\right]$$

Where:

$RUNEX_{CalEEMod}$, $PMBW_{CalEEMod}$, $PMTW_{CalEEMod}$, $STREX_{CalEEMod}$, $HTSK_{CalEEMod}$, $RUNLS_{CalEEMod}$, $IDLEX_{CalEEMod,}$ $DIURN_{CalEEMod,}$ $RESTL_{CalEEMod}$ = CalEEMod vehicle emission factors by vehicle class or vehicle class grouping (g/mi or g/trip).

Daily Emissions = total pollutant emissions (short tons/day) output from EMFAC2021 by vehicle class.

VMT = total VMT (miles/day) output from EMFAC2021 by vehicle class.

Trips = total number of trips (trips/day) output from EMFAC2021 by vehicle class.

Pop = total number of vehicles (number) with non-zero idling emissions per day output from EMFAC2021 by vehicle class.

UC = conversion factor from short tons to grams (90,7184.740760757 g/short ton).

i = fuel type.

j = model year.

Road Dust

Vehicles that drive on both paved and unpaved roads generate fugitive dust by dispersing the silt from the roads. Fugitive dust emission factors for travel on paved roads are calculated using the methodology described in Section 13.2.1 of USEPA's AP-42, as shown below (USEPA 2011).

$$EF_{paved} = (k \times (sL)^{0.91} \times (W)^{1.02}) \times (1 - P/4N)$$

Where:

EF_{paved} = paved road dust emission factor (g/mile).

k = particle size multiplier for particle size range. The AP-42 default values are 0.25 g/VMT for PM2.5 and 1.00 g/VMT for PM10.

sL = road surface silt loading (g/m^2). The AP-42 default value is 0.1 g/m^2, which corresponds to vehicle travel on roads with at least 5,000 vehicle per day under normal conditions.

W = average weight (short tons) of *all the vehicles* traveling the road. The statewide default is 2.4 short tons (CARB 2021e).

P = number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period. The precipitation frequency for Tulare County is 51 days.

N = number of days in the averaging period (e.g., 365 for annual, 91 for quarterly). The model does not include a precipitation adjustment in the daily calculation.

By default, CalEEMod assigns project VMT to unpaved and paved roads based on the percentage of paved and unpaved roads at the user-selected analysis scale (refer to Table G-21 of Appendix C CalEEMod Manual).

The CalEEMod Default for Tulare County is 100% paved roads. Therefore, unpaved road emission factors were not developed or presented here.

Mobile Source Emissions Quantification

CalEEMod emissions from mobile sources are calculated using the emission factors described in the previous sections and the forecasted vehicle trips and VMT for the project (either input directly by the user or generated according to the method described in Section 5.1.1.1, *Default Vehicle Trips and VMT*).

Running, mechanical (i.e., tirewear and brakewear), and road dust emissions are calculated according to the following equation.

$$E_p = EF_p \times VMT$$

Where:

E = running and mechanical emissions (g/day or g/yr).

EF = emission factor (g/VMT).

VMT = vehicle miles traveled (miles/day or miles/yr).

p = pollutant.

Starting, evaporative, and idling emissions are calculated according to the following equation.

$$E_p = EF_p \times Trip$$

Where:

E = starting, evaporative, and idling emissions (g/day or g/yr).

EF = emission factor (g/trip).

Trip = trips (trips/day or trips/yr).

p = pollutant.

Emissions were calculated for 2 different fleets (Passenger Vehicle Fleet of LDA, LDT1,LDT and MDV) and 100% HHDT Truck Fleet) using the VMT and Trips from previous CalEEMod 2020.4.0 runs. The results are summarized for the VMT and Trip based process emissions and the Total.

These emissions were used to update the Report for Passenger Vehicles and Trucks in the Operational Emissions analysis.

Shirk & Riggin Industrial Park Project Operation - Phase 1 Operations

Tulare		
2025		
Average miles per trip	50.0	7.2
Traffic Data	Trucks	Cars
Daily Trips	1,063	6,284
Daily VMT	53,150	45,245
Annual Trips	387,995	2,293,660
Annual VMT	19,399,750	16,514,352

Vehicle Category	Trucks	Cars	County Avg
HHDT	100%		1.5%
LDA		51.0%	45.6%
LDT1		4.4%	3.9%
LDT2		21.5%	19.2%
LHDT1			3.9%
LHDT2			1.0%
MCY			2.2%
MDV		23.1%	20.6%
MH			0.4%
MHDT			1.2%
OBUS			0.1%
SBUS			0.2%
UBUS			0.0%
TOTAL	100%	100%	100%

On-Road Mobile Emissions - Operations (includes Paved Road Dust)

Trucks	Annual Emissions (tons, MT for CO2e)									
Total	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Trucks	**1.25**	**0.50**	**40.28**	**7.81**	**0.32**	**0.61**	**0.58**	**8.63**	**2.33**	**32,067**
VMT	TOG	TOG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Trucks	1.02	0.34	37.16	5.34	0.31	0.60	0.58	8.63	2.33	31,700
Trips	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Trucks	0.23	0.16	3.11	2.47	0.00	0.00	0.00	0.00	0.00	367

Cars	Annual Emissions (tons, MT for CO2e)									
Total	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Cars	**3.29**	**3.09**	**2.20**	**25.91**	**0.06**	**0.03**	**0.03**	**5.57**	**1.41**	**5,401**
VMT	TOG	TOG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Cars	0.34	0.23	1.37	16.98	0.06	0.02	0.02	5.57	1.41	5,186
Trips	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Cars	2.95	2.86	0.83	8.94	0.00	0.01	0.00	0.00	0.00	215

Shirk & Riggin Industrial Park Project Operation - Phase 1 Operations

Emission Factors for VMT (Running Exhaust, Brake Wear and Tire Wear in g/mi) and for Trip Based Emissions (Idling, Starts and Evaporative in g/trip)

Trucks	TOG	ROG	NOX	CO	SO2	PM10E	PM2.5E	PM10D	PM2.5	CO2e
VMT	0.048	0.016	1.738	0.250	0.015	0.028	0.027	0.114	0.036	1634.065
Trip	0.533	0.379	7.277	5.769	0.008	0.002	0.002	0.000	0.000	945.663
Cars	**TOG**	**ROG**	**NOX**	**CO**	**SO2**	**PM10E**	**PM2.5E**	**PM10D**	**PM2.5**	**CO2e**
VMT	0.019	0.013	0.075	0.933	0.003	0.001	0.001	0.016	0.005	314.038
Trip	1.167	1.131	0.328	3.535	0.001	0.002	0.002	0.000	0.000	93.877

Paved Dust Emission Factors (g/mi)

All	TOG	ROG	NOX	CO	SO2	PM10E	PM2.5E	PM10D	PM2.5	CO2e
Annual								0.290	0.072	
Summer								0.300	0.075	
Winter								0.300	0.075	

Tulare		
2026		
Average miles per trip	50.0	3.1
Traffic Data	Trucks	Cars
Daily Trips	473	9,970
Daily VMT	23,650	30,907
Annual Trips	172,645	3,639,050
Annual VMT	8,632,250	11,281,055

Vehicle Category	Trucks	Cars	County Avg
HHDT	100%		1.6%
LDA		51.4%	46.0%
LDT1		4.2%	3.8%
LDT2		21.9%	19.6%
LHDT1			3.8%
LHDT2			1.0%
MCY			2.2%
MDV		22.5%	20.1%
MH			0.4%
MHDT			1.3%
OBUS			0.1%
SBUS			0.2%
UBUS			0.0%
TOTAL	100%	100%	100%

On-Road Mobile Emissions - Operations (includes Paved Road Dust)

Trucks	Annual Emissions (tons, MT for CO2e)									
Total	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Trucks	**0.53**	**0.21**	**17.25**	**3.41**	**0.14**	**0.27**	**0.25**	**3.85**	**1.04**	**13,981**
VMT	TOG	TOG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Trucks	0.43	0.14	15.89	2.32	0.14	0.27	0.25	3.85	1.04	13,821
Trips	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Trucks	0.10	0.07	1.36	1.09	0.00	0.00	0.00	0.00	0.00	159

Cars	Annual Emissions (tons, MT for CO2e)									
Total	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Cars	**4.64**	**4.45**	**2.06**	**24.07**	**0.04**	**0.02**	**0.02**	**3.81**	**0.96**	**3,774**
VMT	TOG	TOG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Cars	0.20	0.14	0.83	10.79	0.04	0.01	0.01	3.81	0.96	3,442
Trips	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Cars	4.44	4.31	1.23	13.28	0.00	0.01	0.01	0.00	0.00	331

Emission Factors for VMT (Running Exhaust, Brake Wear and Tire Wear in g/mi) and for Trip Based Emissions (Idling, Starts and Evaporative in g/trip)

Trucks	TOG	ROG	NOX	CO	SO2	PM10E	PM2.5E	PM10D	PM2.5	CO2e
VMT	0.046	0.015	1.670	0.243	0.014	0.028	0.027	0.114	0.036	1601.130
Trip	0.528	0.376	7.166	5.738	0.008	0.002	0.002	0.000	0.000	923.308
Cars	**TOG**	**ROG**	**NOX**	**CO**	**SO2**	**PM10E**	**PM2.5E**	**PM10D**	**PM2.5**	**CO2e**
VMT	0.016	0.011	0.067	0.868	0.003	0.001	0.001	0.016	0.005	305.153
Trip	1.107	1.073	0.306	3.311	0.001	0.002	0.002	0.000	0.000	90.991

Paved Dust Emission Factors (g/mi)

All	TOG	ROG	NOX	CO	SO2	PM10E	PM2.5E	PM10D	PM2.5	CO2e
Annual								0.290	0.072	
Summer								0.300	0.075	
Winter								0.300	0.075	

Shirk & Riggin Industrial Park Project Operation - Phase 3 Operations

Tulare		
2028		
Average miles per trip	50.0	7.2
Traffic Data	Trucks	Cars
Daily Trips	498	3,121
Daily VMT	24,900	22,471
Annual Trips	181,770	1,139,165
Annual VMT	9,088,500	8,201,988

Vehicle Category	Trucks	Cars	County Avg
HHDT	100%		1.6%
LDA		52.0%	46.7%
LDT1		4.0%	3.6%
LDT2		22.7%	20.4%
LHDT1			3.6%
LHDT2			0.9%
MCY			2.1%
MDV		21.3%	19.1%
MH			0.3%
MHDT			1.3%
OBUS			0.1%
SBUS			0.2%
UBUS			0.0%
TOTAL	100%	100%	100%

On-Road Mobile Emissions - Operations (includes Paved Road Dust)

Trucks	Annual Emissions (tons, MT for CO2e)									
Total	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Trucks	**0.52**	**0.21**	**16.94**	**3.43**	**0.14**	**0.27**	**0.26**	**4.06**	**1.09**	**14,023**
VMT	TOG	TOG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Trucks	0.42	0.14	15.56	2.30	0.14	0.27	0.26	4.06	1.09	13,864
Trips	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Trucks	0.10	0.07	1.38	1.13	0.00	0.00	0.00	0.00	0.00	160

Cars	Annual Emissions (tons, MT for CO2e)									
Total	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Cars	**1.39**	**1.31**	**0.82**	**10.59**	**0.03**	**0.01**	**0.01**	**2.77**	**0.70**	**2,468**
VMT	TOG	TOG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Cars	0.12	0.08	0.48	6.90	0.03	0.01	0.01	2.77	0.70	2,371
Trips	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D	CO_2e
Cars	1.27	1.23	0.34	3.69	0.00	0.00	0.00	0.00	0.00	98

Shirk & Riggin Industrial Park Project Operation - Phase 3 Operations

Emission Factors for VMT (Running Exhaust, Brake Wear and Tire Wear in g/mi) and for Trip Based Emissions (Idling, Starts and Evaporative in g/trip)

Trucks	TOG	ROG	NOX	CO	SO2	PM10E	PM2.5E	PM10D	PM2.5	CO2e
VMT	0.042	0.014	1.554	0.229	0.014	0.027	0.026	0.115	0.037	1525.428
Trip	0.517	0.368	6.879	5.657	0.008	0.002	0.002	0.000	0.000	877.768
Cars	**TOG**	**ROG**	**NOX**	**CO**	**SO2**	**PM10E**	**PM2.5E**	**PM10D**	**PM2.5**	**CO2e**
VMT	0.013	0.009	0.054	0.763	0.003	0.001	0.001	0.016	0.005	289.038
Trip	1.009	0.980	0.271	2.940	0.001	0.002	0.002	0.000	0.000	85.813

Paved Dust Emission Factors (g/mi)

All	TOG	ROG	NOX	CO	SO2	PM10E	PM2.5E	PM10D	PM2.5	CO2e
Annual								0.290	0.072	
Summer								0.300	0.075	
Winter								0.300	0.075	

Shirk & Riggin Industrial Park Project Operation - Operational Buildout
Localized (On-Site Emissions + Off-Site within 1/4 mile)

Tulare		
2028		
miles per trip	2.8	1.6
Traffic Data	Trucks	Cars
Daily Trips (Starts)	2,034	9,688
Daily VMT	5,695	15,500
Annual Trips	742,410	3,535,938
Annual VMT	2,078,748	5,657,500

*Trips for Cars are Divided by Two to Account for Only On-Site Starts

Vehicle Category	Trucks	Cars	County Avg
HHDT	100%		1.6%
LDA		52.0%	46.7%
LDT1		4.0%	3.6%
LDT2		22.7%	20.4%
LHDT1			3.6%
LHDT2			0.9%
MCY			2.1%
MDV		21.3%	19.1%
MH			0.3%
MHDT			1.3%
OBUS			0.1%
SBUS			0.2%
UBUS			0.0%
TOTAL	100%	100%	100%

On-Road Mobile Emissions - On-Site Buildout

Trucks	Max Daily Emissions (lbs)								
Total	**TOG**	**ROG**	**NOx**	**CO**	**SO_2**	**PM10E**	**PM2.5E**	**PM10D**	**PM2.5D**
Trucks	**2.95**	**1.92**	**51.92**	**28.70**	**0.21**	**0.35**	**0.34**	**5.22**	**1.40**
VMT	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D
Trucks	0.52	0.18	19.87	2.88	0.17	0.34	0.33	5.22	1.40
Trips	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D
Trucks	2.43	1.75	32.05	25.82	0.03	0.01	0.01	0.00	0.00

Cars	Max Daily Emissions (lbs)								
Total	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D
Cars	**26.05**	**25.37**	**8.42**	**113.63**	**0.12**	**0.08**	**0.07**	**10.82**	**2.73**
VMT	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D
Cars	0.48	0.33	2.05	37.04	0.11	0.04	0.03	10.82	2.73
Trips	TOG	ROG	NOx	CO	SO_2	PM10E	PM2.5E	PM10D	PM2.5D
Cars	25.57	25.04	6.38	76.60	0.02	0.04	0.04	0.00	0.00

VMT Emission Factors(Running Exhaust, Brake Wear and Tire Wear in g/mi) and for Trip Emission Factors (Idling, Starts and Evaporative in g/trip)

Truck	TOG	ROG	NOX	CO	SO2	PM10E	PM2.5E	PM10D	PM2.5
VMT	0.042	0.014	1.554	0.229	0.014	0.027	0.026	0.115	0.037
Trip	0.517	0.368	6.879	5.657	0.008	0.002	0.002		0.000
VMT	0.042	0.014	1.478	0.229	0.014	0.027	0.026	0.115	0.037
Trip	0.541	0.390	6.685	5.584	0.007	0.002	0.002		0.000
VMT	0.042	0.014	1.583	0.229	0.014	0.027	0.026	0.115	0.037
Trip	0.483	0.339	7.147	5.758	0.008	0.002	0.002		0.000
Cars	**TOG**	**ROG**	**NOX**	**CO**	**SO2**	**PM10E**	**PM2.5E**	**PM10D**	**PM2.5**
VMT	0.013	0.009	0.054	0.763	0.003	0.001	0.001	0.016	0.005
Trip	1.009	0.980	0.271	2.940	0.001	0.002	0.002		0.000
VMT	0.014	0.010	0.047	1.084	0.003	0.001	0.001	0.016	0.005
Trip	1.197	1.173	0.255	2.466	0.001	0.002	0.002		0.000
VMT	0.013	0.009	0.060	0.651	0.003	0.001	0.001	0.016	0.005
Trip	1.105	1.070	0.299	3.586	0.001	0.002	0.002		0.000

Paved Road Dust Emission Factors (g/mi)

Cars/Trucks	TOG	ROG	NOX	CO	SO2	PM10E	PM2.5E	PM10D	PM2.5
VMT- Annual								0.290	0.072
VMT -Daily								0.300	0.075

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for CalEEMod 2022
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yea	SeasonOps	VehicleCat	DefaultFleet		TOG_RUNEX_A	TOG_IDLEX_A	TOG_STREX_A	TOG_DIURN_A	TOG_HOTSOAK_A	TOG_RUNLOSS_A	ROG_RUNEX_A	ROG_IDLEX_A	ROG_STREX_A	ROG_DIURN_A
Tulare	2025	Annual	HHDT		1.53%	0.048	0.533	0.000	0.000	0.000	0.000	0.016	0.379	0.000	0.000
Tulare	2025	Annual	LDA		45.65%	0.010	0.000	0.311	0.331	0.088	0.221	0.007	0.000	0.284	0.331
Tulare	2025	Annual	LDT1		3.94%	0.069	0.000	0.851	1.142	0.275	0.816	0.047	0.000	0.777	1.142
Tulare	2025	Annual	LDT2		19.22%	0.019	0.000	0.435	0.409	0.100	0.282	0.013	0.000	0.397	0.409
Tulare	2025	Annual	LHDT1		3.94%	0.175	0.025	0.098	0.129	0.030	0.156	0.146	0.018	0.090	0.129
Tulare	2025	Annual	LHDT2		1.00%	0.182	0.019	0.058	0.074	0.017	0.079	0.157	0.014	0.053	0.074
Tulare	2025	Annual	MCY		2.19%	1.410	0.000	1.615	2.928	3.639	3.975	1.189	0.000	1.486	2.928
Tulare	2025	Annual	MDV		20.62%	0.028	0.000	0.621	0.555	0.131	0.391	0.019	0.000	0.567	0.555
Tulare	2025	Annual	MH		0.38%	0.120	0.000	0.106	33.604	7.914	0.187	0.095	0.000	0.096	33.604
Tulare	2025	Annual	MHDT		1.23%	0.045	0.045	0.040	0.028	0.006	0.033	0.031	0.023	0.037	0.028
Tulare	2025	Annual	OBUS		0.06%	0.150	0.076	0.153	0.149	0.033	0.100	0.111	0.057	0.140	0.149
Tulare	2025	Annual	SBUS		0.19%	0.367	0.864	0.028	0.046	0.010	0.153	0.051	0.514	0.025	0.046
Tulare	2025	Annual	UBUS		0.05%	0.960	0.000	0.209	0.049	0.014	0.026	0.021	0.000	0.191	0.049
Landuse 1	2025	Annual	Trucks			0.048	0.533	0.000	0.000	0.000	0.000	0.016	0.379	0.000	0.000
Landuse2	2025	Annual	Cars			0.019	0.000	0.433	0.435	0.109	0.299	0.013	0.000	0.395	0.435

907184.741 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for C
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yea	SeasonOps	VehicleCat	ROG_HOTSOAK_A	ROG_RUNLOSS_A	NOX_RUNEX_A	NOX_IDLEX_A	NOX_STREX_A	CO_RUNEX_A	CO_IDLEX_A	CO_STREX_A	SOX_RUNEX_A	SOX_IDLEX_A	SOX_STREX_A
Tulare	2025	Annual	HHDT	0.000	0.000	1.738	4.497	2.780	0.250	5.768	0.000	0.015	0.0082	0.000
Tulare	2025	Annual	LDA	0.088	0.223	0.035	0.000	0.231	0.687	0.000	2.798	0.003	0.000	0.001
Tulare	2025	Annual	LDT1	0.275	0.8163	0.231	0.000	0.521	2.338	0.000	7.428	0.003	0.000	0.001
Tulare	2025	Annual	LDT2	0.100	0.282	0.084	0.000	0.352	0.964	0.000	3.746	0.003	0.000	0.001
Tulare	2025	Annual	LHDT1	0.030	0.156	1.267	0.095	0.346	1.018	0.156	1.531	0.007	0.000	0.000
Tulare	2025	Annual	LHDT2	0.017	0.079	1.386	0.126	0.221	0.667	0.122	0.904	0.008	0.000	0.000
Tulare	2025	Annual	MCY	3.639	3.975	0.644	0.000	0.158	14.739	0.000	8.264	0.002	0.000	0.001
Tulare	2025	Annual	MDV	0.131	0.391	0.127	0.000	0.485	1.178	0.000	4.224	0.004	0.000	0.001
Tulare	2025	Annual	MH	7.914	0.187	2.239	0.000	0.269	1.067	0.000	2.087	0.016	0.000	0.000
Tulare	2025	Annual	MHDT	0.006	0.033	1.034	0.951	1.453	0.282	0.676	0.798	0.011	0.002	0.000
Tulare	2025	Annual	OBUS	0.033	0.100	1.628	0.489	0.814	1.128	0.721	2.947	0.015	0.001	0.000
Tulare	2025	Annual	SBUS	0.010	0.153	2.662	1.205	0.425	1.358	4.344	0.548	0.009	0.002	0.000
Tulare	2025	Annual	UBUS	0.014	0.026	0.159	0.000	0.326	9.038	0.000	3.431	0.005	0.000	0.000
Landuse 1	2025	Annual	Trucks	0.000	0.000	1.738	4.497	2.780	0.250	5.768	0.000	0.015	0.008	0.000
Landuse2	2025	Annual	Cars	0.109	0.301	0.075	0.000	0.328	0.933	0.000	3.535	0.003	0.000	0.001

907184.741 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for C
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yea	SeasonOps	VehicleCat	PM25_RUNEX_A	PM25_IDLEX_A	PM25_STREX_A	PM25_PMTW_A	PM25_PMBW_A	PM10_RUNEX_A	PM10_IDLEX_A	PM10_STREX_A	PM10_PMTW_A	PM10_PMBW_A	CO2_RUNEX_A
Tulare	2025	Annual	HHDT	0.027	0.002	0.000	0.009	0.027	0.028	0.002	0.000	0.036	0.078	1559.805
Tulare	2025	Annual	LDA	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008	0.008	254.572
Tulare	2025	Annual	LDT1	0.002	0.000	0.003	0.002	0.003	0.002	0.000	0.004	0.008	0.009	331.223
Tulare	2025	Annual	LDT2	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008	0.009	331.154
Tulare	2025	Annual	LHDT1	0.027	0.001	0.000	0.003	0.027	0.028	0.001	0.000	0.010	0.078	755.764
Tulare	2025	Annual	LHDT2	0.033	0.002	0.000	0.003	0.032	0.034	0.002	0.000	0.011	0.091	833.274
Tulare	2025	Annual	MCY	0.002	0.000	0.003	0.001	0.004	0.002	0.000	0.003	0.004	0.012	185.644
Tulare	2025	Annual	MDV	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008	0.009	417.573
Tulare	2025	Annual	MH	0.053	0.000	0.000	0.003	0.016	0.056	0.000	0.000	0.013	0.045	1630.413
Tulare	2025	Annual	MHDT	0.011	0.002	0.000	0.003	0.016	0.012	0.002	0.000	0.012	0.045	1157.455
Tulare	2025	Annual	OBUS	0.032	0.001	0.000	0.003	0.018	0.033	0.001	0.000	0.012	0.053	1541.918
Tulare	2025	Annual	SBUS	0.013	0.001	0.000	0.003	0.016	0.014	0.001	0.000	0.011	0.045	1022.069
Tulare	2025	Annual	UBUS	0.001	0.000	0.000	0.004	0.038	0.001	0.000	0.000	0.015	0.109	1101.161
Landuse 1	2025	Annual	Trucks	0.027	0.002	0.000	0.009	0.027	0.028	0.002	0.000	0.036	0.078	1559.805
Landuse2	2025	Annual	Cars	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008	0.008	311.992

907184.741 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for C
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yea	SeasonOps	VehicleCat	CO2_IDLEX_A	CO2_STREX_A	CH4_RUNEX_A	CH4_IDLEX_A	CH4_STREX_A	N2O_RUNEX_A	N2O_IDLEX_A	N2O_STREX_A
Tulare	2025	Annual	HHDT	899.949	0.006	0.030	0.118	0.000	0.247	0.143	0.000
Tulare	2025	Annual	LDA	0.000	65.647	0.002	0.000	0.064	0.004	0.000	0.031
Tulare	2025	Annual	LDT1	0.000	92.154	0.010	0.000	0.144	0.015	0.000	0.045
Tulare	2025	Annual	LDT2	0.000	86.360	0.003	0.000	0.085	0.007	0.000	0.038
Tulare	2025	Annual	LHDT1	9.495	12.997	0.011	0.004	0.018	0.059	0.001	0.026
Tulare	2025	Annual	LHDT2	14.997	8.076	0.009	0.002	0.011	0.091	0.002	0.017
Tulare	2025	Annual	MCY	0.000	53.093	0.176	0.000	0.199	0.043	0.000	0.009
Tulare	2025	Annual	MDV	0.000	107.946	0.004	0.000	0.113	0.010	0.000	0.044
Tulare	2025	Annual	MH	0.000	19.571	0.012	0.000	0.023	0.079	0.000	0.028
Tulare	2025	Annual	MHDT	176.079	6.135	0.009	0.019	0.006	0.161	0.028	0.004
Tulare	2025	Annual	OBUS	114.988	21.565	0.023	0.012	0.025	0.142	0.017	0.019
Tulare	2025	Annual	SBUS	268.512	3.497	0.308	0.235	0.005	0.128	0.028	0.004
Tulare	2025	Annual	UBUS	0.000	40.026	0.933	0.000	0.045	0.135	0.000	0.030
Landuse 1	2025	Annual	Trucks	899.949	0.006	0.030	0.118	0.000	0.247	0.143	0.000
Landuse2	2025	Annual	Cars	0.000	81.020	0.003	0.000	0.083	0.007	0.000	0.036

907184.741 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for CalEEMod 2022
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yea	SeasonOps	VehicleCat	VPopulation	Miles	VehTrips	DefaultFleet	TOG_RUNEX_A	TOG_IDLEX_A	TOG_STREX_A	TOG_DIURN_A	TOG_HOTSOAK_A	TOG_RUNLOSS_A	ROG_RUNEX_A	ROG_IDLEX_A
Tulare	2026	Annual	HHDT	5858.765345	778303.553	94669.6866	1.57%	0.046	0.528	0.000	0.000	0.000	0.000	0.015	0.375
Tulare	2026	Annual	LDA	171938.0309	7276527.22	793766.321	46.04%	0.009	0.000	0.290	0.319	0.084	0.215	0.006	0.000
Tulare	2026	Annual	LDT1	14203.43983	481175.323	59905.9941	3.80%	0.061	0.000	0.782	1.052	0.258	0.759	0.042	0.000
Tulare	2026	Annual	LDT2	73224.37013	2991682.76	337826.11	19.61%	0.017	0.000	0.403	0.395	0.095	0.275	0.011	0.000
Tulare	2026	Annual	LHDT1	14222.62244	507971.362	194487.807	3.81%	0.165	0.025	0.095	0.127	0.029	0.156	0.138	0.018
Tulare	2026	Annual	LHDT2	3646.212155	130182.75	48206.8899	0.98%	0.176	0.019	0.056	0.074	0.016	0.080	0.152	0.014
Tulare	2026	Annual	MCY	8093.561181	44726.4888	16187.1224	2.17%	1.363	0.000	1.573	2.965	3.641	4.004	1.145	0.000
Tulare	2026	Annual	MDV	75109.72443	2763500.42	335172.816	20.11%	0.025	0.000	0.575	0.547	0.127	0.386	0.017	0.000
Tulare	2026	Annual	MH	1357.199817	12008.8314	135.753303	0.36%	0.113	0.000	0.102	32.369	7.533	0.183	0.090	0.000
Tulare	2026	Annual	MHDT	4699.028581	218637.111	58733.032	1.26%	0.039	0.044	0.037	0.023	0.005	0.029	0.026	0.022
Tulare	2026	Annual	OBUS	234.0944618	12370.3667	3787.22468	0.06%	0.142	0.077	0.148	0.156	0.033	0.106	0.104	0.057
Tulare	2026	Annual	SBUS	718.2953895	20395.4866	8971.46214	0.19%	0.368	0.865	0.028	0.054	0.011	0.181	0.047	0.512
Tulare	2026	Annual	UBUS	170.5019441	16553.5761	682.007776	0.05%	0.946	0.000	0.212	0.045	0.013	0.025	0.021	0.000
Landuse 1	2026	Annual					Trucks	0.046	0.528	0.000	0.000	0.000	0.000	0.015	0.375
Landuse2	2026	Annual					Cars	0.016	0.000	0.399	0.418	0.104	0.289	0.011	0.000

907184.7408	Unit Conversion grams to tons
25	GWP_CH4
298	GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for CalEEI
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yeai	SeasonOps	VehicleCat	ROG_STREX_A	ROG_DIURN_A	ROG_HOTSOAK_A	ROG_RUNLOSS_A	NOX_RUNEX_A	NOX_IDLEX_A	NOX_STREX_A	CO_RUNEX_A	CO_IDLEX_A	CO_STREX_A	SOX_RUNEX_A
Tulare	2026	Annual	HHDT	0.000	0.000	0.000	0.000	1.670	4.375	2.791	0.243	5.738	0.000	0.014
Tulare	2026	Annual	LDA	0.265	0.319	0.084	0.217	0.032	0.000	0.220	0.648	0.000	2.636	0.002
Tulare	2026	Annual	LDT1	0.714	1.052	0.258	0.7588	0.207	0.000	0.487	2.124	0.000	6.852	0.003
Tulare	2026	Annual	LDT2	0.368	0.395	0.095	0.275	0.075	0.000	0.328	0.898	0.000	3.506	0.003
Tulare	2026	Annual	LHDT1	0.087	0.127	0.029	0.156	1.174	0.093	0.338	0.958	0.156	1.553	0.007
Tulare	2026	Annual	LHDT2	0.051	0.074	0.016	0.080	1.308	0.123	0.214	0.639	0.122	0.894	0.008
Tulare	2026	Annual	MCY	1.448	2.965	3.641	4.004	0.627	0.000	0.152	14.238	0.000	8.221	0.002
Tulare	2026	Annual	MDV	0.525	0.547	0.127	0.386	0.113	0.000	0.448	1.103	0.000	3.995	0.004
Tulare	2026	Annual	MH	0.093	32.369	7.533	0.183	2.207	0.000	0.271	0.924	0.000	2.001	0.016
Tulare	2026	Annual	MHDT	0.033	0.023	0.005	0.029	0.935	0.898	1.447	0.238	0.671	0.718	0.011
Tulare	2026	Annual	OBUS	0.135	0.156	0.033	0.106	1.585	0.489	0.829	0.992	0.742	2.818	0.015
Tulare	2026	Annual	SBUS	0.025	0.054	0.011	0.181	2.451	1.153	0.438	1.334	4.347	0.532	0.008
Tulare	2026	Annual	UBUS	0.193	0.045	0.013	0.025	0.156	0.000	0.331	8.907	0.000	3.431	0.005
Landuse 1	2026	Annual		0.000	0.000	0.000	0.000	1.670	4.375	2.791	0.243	5.738	0.000	0.014
Landuse2	2026	Annual		0.365	0.418	0.104	0.291	0.067	0.000	0.306	0.868	0.000	3.311	0.003

907184.7408 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for CalEEI
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yeai	SeasonOps	VehicleCat	SOX_IDLEX_A	SOX_STREX_A	PM25_RUNEX_A	PM25_IDLEX_A	PM25_STREX_A	PM25_PMTW_A	PM25_PMBW_A	PM10_RUNEX_A	PM10_IDLEX_A	PM10_STREX_A	PM10_PMTW_A
Tulare	2026	Annual	HHDT	0.0080	0.000	0.027	0.002	0.000	0.009	0.027	0.028	0.002	0.000	0.036
Tulare	2026	Annual	LDA	0.000	0.001	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008
Tulare	2026	Annual	LDT1	0.000	0.001	0.002	0.000	0.003	0.002	0.003	0.002	0.000	0.004	0.008
Tulare	2026	Annual	LDT2	0.000	0.001	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008
Tulare	2026	Annual	LHDT1	0.000	0.000	0.026	0.001	0.000	0.003	0.027	0.027	0.001	0.000	0.010
Tulare	2026	Annual	LHDT2	0.000	0.000	0.032	0.002	0.000	0.003	0.032	0.033	0.002	0.000	0.011
Tulare	2026	Annual	MCY	0.000	0.001	0.002	0.000	0.003	0.001	0.004	0.002	0.000	0.003	0.004
Tulare	2026	Annual	MDV	0.000	0.001	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008
Tulare	2026	Annual	MH	0.000	0.000	0.053	0.000	0.000	0.003	0.016	0.055	0.000	0.000	0.013
Tulare	2026	Annual	MHDT	0.002	0.000	0.010	0.002	0.000	0.003	0.016	0.010	0.002	0.000	0.012
Tulare	2026	Annual	OBUS	0.001	0.000	0.031	0.001	0.000	0.003	0.018	0.033	0.001	0.000	0.012
Tulare	2026	Annual	SBUS	0.002	0.000	0.012	0.001	0.000	0.003	0.016	0.013	0.001	0.000	0.011
Tulare	2026	Annual	UBUS	0.000	0.000	0.001	0.000	0.000	0.004	0.038	0.001	0.000	0.000	0.015
Landuse 1	2026	Annual		0.008	0.000	0.027	0.002	0.000	0.009	0.027	0.028	0.002	0.000	0.036
Landuse2	2026	Annual		0.000	0.001	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008

907184.7408 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for CalEEI
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yeai	SeasonOps	VehicleCat	PM10_PMBW_A	CO2_RUNEX_A	CO2_IDLEX_A	CO2_STREX_A	CH4_RUNEX_A	CH4_IDLEX_A	CH4_STREX_A	N2O_RUNEX_A	N2O_IDLEX_A	N2O_STREX_A
Tulare	2026	Annual	HHDT	0.079	1528.374	878.610	0.006	0.029	0.117	0.000	0.242	0.140	0.000
Tulare	2026	Annual	LDA	0.008	247.483	0.000	63.810	0.002	0.000	0.060	0.004	0.000	0.030
Tulare	2026	Annual	LDT1	0.009	324.285	0.000	89.657	0.009	0.000	0.134	0.014	0.000	0.043
Tulare	2026	Annual	LDT2	0.009	322.308	0.000	83.850	0.003	0.000	0.080	0.006	0.000	0.037
Tulare	2026	Annual	LHDT1	0.078	748.138	9.408	13.014	0.010	0.004	0.017	0.057	0.001	0.026
Tulare	2026	Annual	LHDT2	0.091	826.721	14.895	7.930	0.008	0.002	0.010	0.091	0.002	0.016
Tulare	2026	Annual	MCY	0.012	184.946	0.000	52.044	0.171	0.000	0.194	0.042	0.000	0.009
Tulare	2026	Annual	MDV	0.009	408.405	0.000	105.515	0.004	0.000	0.105	0.009	0.000	0.042
Tulare	2026	Annual	MH	0.045	1625.102	0.000	19.183	0.011	0.000	0.022	0.079	0.000	0.029
Tulare	2026	Annual	MHDT	0.045	1139.004	174.134	5.685	0.009	0.020	0.006	0.159	0.027	0.004
Tulare	2026	Annual	OBUS	0.053	1517.022	117.914	20.759	0.023	0.013	0.024	0.142	0.017	0.019
Tulare	2026	Annual	SBUS	0.045	1014.415	267.544	3.455	0.313	0.239	0.005	0.127	0.028	0.004
Tulare	2026	Annual	UBUS	0.109	1075.594	0.000	40.035	0.918	0.000	0.046	0.130	0.000	0.030
Landuse 1	2026	Annual		0.079	1528.374	878.610	0.006	0.029	0.117	0.000	0.242	0.140	0.000
Landuse2	2026	Annual		0.008	303.262	0.000	78.660	0.003	0.000	0.078	0.006	0.000	0.035

907184.7408	Unit Conversion grams to tons
25	GWP_CH4
298	GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for CalEEMod 2022
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yea	SeasonOps	VehicleCat	VPopulation	Miles	VehTrips	DefaultFleet	TOG_RUNEX_A	TOG_IDLEX_A	TOG_STREX_A	TOG_DIURN_A	TOG_HOTSOAK_A	TOG_RUNLOSS_A	ROG_RUNEX_A	ROG_IDLEX_A
Tulare	2028	Annual	HHDT	6131.701282	798849.6923	98883.74414	1.63%	0.042	0.517	0.000	0.000	0.000	0.000	0.014	0.368
Tulare	2028	Annual	LDA	175498.7523	7472987.722	809537.1764	46.71%	0.007	0.000	0.254	0.303	0.077	0.206	0.005	0.000
Tulare	2028	Annual	LDT1	13399.532	465309.5993	56833.14401	3.57%	0.048	0.000	0.658	0.944	0.228	0.665	0.033	0.000
Tulare	2028	Annual	LDT2	76594.14316	3150974.479	353320.9554	20.39%	0.014	0.000	0.350	0.362	0.086	0.252	0.009	0.000
Tulare	2028	Annual	LHDT1	13392.81234	481389.8029	183365.3414	3.56%	0.142	0.024	0.089	0.122	0.027	0.151	0.120	0.017
Tulare	2028	Annual	LHDT2	3478.591841	123495.892	45944.24539	0.93%	0.159	0.018	0.051	0.071	0.015	0.076	0.138	0.014
Tulare	2028	Annual	MCY	7939.727809	43974.62888	15879.45562	2.11%	1.270	0.000	1.480	2.968	3.643	4.044	1.059	0.000
Tulare	2028	Annual	MDV	71931.33611	2653531.729	320070.1289	19.15%	0.020	0.000	0.497	0.542	0.122	0.382	0.014	0.000
Tulare	2028	Annual	MH	1247.690403	11147.42302	124.7988483	0.33%	0.101	0.000	0.096	29.228	6.588	0.165	0.081	0.000
Tulare	2028	Annual	MHDT	4949.152108	227410.9246	61663.48755	1.32%	0.030	0.042	0.030	0.018	0.004	0.023	0.019	0.019
Tulare	2028	Annual	OBUS	233.2300014	12075.4206	3718.390306	0.06%	0.129	0.079	0.138	0.151	0.031	0.101	0.093	0.058
Tulare	2028	Annual	SBUS	720.6660392	20474.112	9000.476878	0.19%	0.369	0.868	0.028	0.066	0.012	0.233	0.042	0.510
Tulare	2028	Annual	UBUS	172.6972582	16766.71326	690.7890327	0.05%	1.026	0.000	0.196	0.038	0.010	0.024	0.022	0.000

ANNUAL_LU	FLEET_SEASON						TOG_RUNEX_FLTA	TOG_IDLEX_FLTA	TOG_STREX_FLTA	TOG_DIURN_FLTA	TOG_HOTSOAK_FLTA	TOG_RUNLOSS_FLTA	ROG_RUNEX_FLTA	ROG_IDLEX_FLTA
Landuse 1	2028	Annual				Trucks	0.042	0.517	0.000	0.000	0.000	0.000	0.014	0.368
Landuse2	2028	Annual				Cars	0.013	0.000	0.344	0.393	0.095	0.272	0.009	0.000

907184.7408	Unit Conversion grams to tons
25	GWP_CH4
298	GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for CalEEMod 2
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yea	Season	Ops	VehicleCat	ROG_STREX_A	ROG_DIURN_A	ROG_HOTSOAK_A	ROG_RUNLOSS_A	NOX_RUNEX_A	NOX_IDLEX_A	NOX_STREX_A	CO_RUNEX_A	CO_IDLEX_A	CO_STREX_A	SOX_RUNEX_A
Tulare	2028	Annual		HHDT	0.000	0.000	0.000	0.000	1.554	4.137	2.742	0.229	5.657	0.000	0.014
Tulare	2028	Annual		LDA	0.232	0.303	0.077	0.208	0.027	0.000	0.202	0.585	0.000	2.367	0.002
Tulare	2028	Annual		LDT1	0.601	0.944	0.228	0.6647	0.163	0.000	0.423	1.751	0.000	5.813	0.003
Tulare	2028	Annual		LDT2	0.320	0.362	0.086	0.252	0.060	0.000	0.290	0.798	0.000	3.126	0.003
Tulare	2028	Annual		LHDT1	0.081	0.122	0.027	0.151	0.992	0.088	0.319	0.851	0.156	1.596	0.007
Tulare	2028	Annual		LHDT2	0.047	0.071	0.015	0.076	1.156	0.117	0.200	0.576	0.119	0.872	0.008
Tulare	2028	Annual		MCY	1.361	2.968	3.643	4.044	0.594	0.000	0.140	13.277	0.000	8.132	0.002
Tulare	2028	Annual		MDV	0.454	0.542	0.122	0.382	0.091	0.000	0.390	0.975	0.000	3.606	0.004
Tulare	2028	Annual		MH	0.087	29.228	6.588	0.165	2.126	0.000	0.277	0.681	0.000	1.854	0.016
Tulare	2028	Annual		MHDT	0.027	0.018	0.004	0.023	0.757	0.797	1.391	0.174	0.655	0.582	0.010
Tulare	2028	Annual		OBUS	0.126	0.151	0.031	0.101	1.509	0.483	0.839	0.843	0.774	2.601	0.014
Tulare	2028	Annual		SBUS	0.026	0.066	0.012	0.233	2.047	1.036	0.454	1.316	4.360	0.522	0.008
Tulare	2028	Annual		UBUS	0.179	0.038	0.010	0.024	0.128	0.000	0.307	9.361	0.000	3.233	0.005

ANNUAL_LU	FLEET_SEASON		ROG_STREX_FLTA	ROG_DIURN_FLTA	ROG_HOTSOAK_FLTA	ROG_RUNLOSS_FLTA	NOX_RUNEX_FLTA	NOX_IDLEX_FLTA	NOX_STREX_FLTA	CO_RUNEX_FLTA	CO_IDLEX_FLTA	CO_STREX_FLTA	SOX_RUNEX_FLTA
Landuse 1	2028	Annual	0.000	0.000	0.000	0.000	1.554	4.137	2.742	0.229	5.657	0.000	0.014
Landuse2	2028	Annual	0.314	0.393	0.095	0.273	0.054	0.000	0.271	0.763	0.000	2.940	0.003

907184.7408	Unit Conversion grams to tons
25	GWP_CH4
298	GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for CalEEMod 2
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yea	SeasonOps	VehicleCat	SOX_IDLEX_A	SOX_STREX_A	PM25_RUNEX_A	PM25_IDLEX_A	PM25_STREX_A	PM25_PMTW_A	PM25_PMBW_A	PM10_RUNEX_A	PM10_IDLEX_A	PM10_STREX_A	PM10_PMTW_A
Tulare	2028	Annual	HHDT	0.0076	0.000	0.026	0.002	0.000	0.009	0.028	0.027	0.002	0.000	0.036
Tulare	2028	Annual	LDA	0.000	0.001	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008
Tulare	2028	Annual	LDT1	0.000	0.001	0.002	0.000	0.003	0.002	0.003	0.002	0.000	0.003	0.008
Tulare	2028	Annual	LDT2	0.000	0.001	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008
Tulare	2028	Annual	LHDT1	0.000	0.000	0.023	0.001	0.000	0.002	0.027	0.024	0.001	0.000	0.010
Tulare	2028	Annual	LHDT2	0.000	0.000	0.029	0.002	0.000	0.003	0.031	0.031	0.002	0.000	0.011
Tulare	2028	Annual	MCY	0.000	0.000	0.002	0.000	0.003	0.001	0.004	0.002	0.000	0.003	0.004
Tulare	2028	Annual	MDV	0.000	0.001	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008
Tulare	2028	Annual	MH	0.000	0.000	0.051	0.000	0.000	0.003	0.016	0.053	0.000	0.000	0.014
Tulare	2028	Annual	MHDT	0.002	0.000	0.007	0.001	0.000	0.003	0.015	0.008	0.001	0.000	0.012
Tulare	2028	Annual	OBUS	0.001	0.000	0.029	0.001	0.000	0.003	0.019	0.030	0.001	0.000	0.012
Tulare	2028	Annual	SBUS	0.002	0.000	0.010	0.001	0.000	0.003	0.016	0.011	0.001	0.000	0.011
Tulare	2028	Annual	UBUS	0.000	0.000	0.001	0.000	0.000	0.004	0.037	0.001	0.000	0.000	0.015

ANNUAL_LU	FLEET_SEASON	SOX_IDLEX_FLTA	SOX_STREX_FLTA	PM25_RUNEX_FLTA	PM25_IDLEX_FLTA	PM25_STREX_FLTA	PM25_PMTW_FLTA	PM25_PMBW_FLTA	PM10_RUNEX_FLTA	PM10_IDLEX_FLTA	PM10_STREX_FLTA	PM10_PMTW_FLTA
Landuse 1	2028 Annual	0.008	0.000	0.026	0.002	0.000	0.009	0.028	0.027	0.002	0.000	0.036
Landuse2	2028 Annual	0.000	0.001	0.001	0.000	0.002	0.002	0.003	0.001	0.000	0.002	0.008

907184.7408 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates Processed for CalEEMod 2
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Yea	SeasonOps	VehicleCat	PM10_PMBW_A	CO2_RUNEX_A	CO2_IDLEX_A	CO2_STREX_A	CH4_RUNEX_A	CH4_IDLEX_A	CH4_STREX_A	N2O_RUNEX_A	N2O_IDLEX_A	N2O_STREX_A
Tulare	2028	Annual	HHDT	0.079	1456.132	835.178	0.004	0.026	0.114	0.000	0.230	0.133	0.000
Tulare	2028	Annual	LDA	0.007	234.783	0.000	60.469	0.001	0.000	0.054	0.004	0.000	0.029
Tulare	2028	Annual	LDT1	0.009	310.661	0.000	84.839	0.007	0.000	0.115	0.011	0.000	0.040
Tulare	2028	Annual	LDT2	0.008	307.062	0.000	79.489	0.002	0.000	0.071	0.006	0.000	0.035
Tulare	2028	Annual	LHDT1	0.077	721.982	9.183	13.027	0.009	0.004	0.016	0.054	0.001	0.025
Tulare	2028	Annual	LHDT2	0.090	797.514	14.627	7.609	0.007	0.002	0.009	0.088	0.002	0.015
Tulare	2028	Annual	MCY	0.012	183.652	0.000	49.776	0.161	0.000	0.184	0.041	0.000	0.008
Tulare	2028	Annual	MDV	0.009	390.485	0.000	100.785	0.003	0.000	0.093	0.008	0.000	0.039
Tulare	2028	Annual	MH	0.045	1616.608	0.000	18.508	0.009	0.000	0.022	0.078	0.000	0.030
Tulare	2028	Annual	MHDT	0.044	1090.105	168.348	4.908	0.008	0.020	0.005	0.153	0.027	0.003
Tulare	2028	Annual	OBUS	0.053	1461.417	122.176	19.321	0.023	0.014	0.023	0.142	0.018	0.018
Tulare	2028	Annual	SBUS	0.044	993.230	264.900	3.421	0.320	0.245	0.005	0.124	0.028	0.005
Tulare	2028	Annual	UBUS	0.107	1001.198	0.000	37.716	0.996	0.000	0.042	0.119	0.000	0.028

ANNUAL_LU	FLEET_SEASON	PM10_PMBW_FLTA	CO2_RUNEX_FLTA	CO2_IDLEX_FLTA	CO2_STREX_FLTA	CH4_RUNEX_FLTA	CH4_IDLEX_FLTA	CH4_STREX_FLTA	N2O_RUNEX_FLTA	N2O_IDLEX_FLTA	N2O_STREX_FLTA
Landuse 1	2028 Annual	0.079	1456.132	835.178	0.004	0.026	0.114	0.000	0.230	0.133	0.000
Landuse2	2028 Annual	0.008	287.396	0.000	74.349	0.002	0.000	0.069	0.005	0.000	0.033

907184.7408 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Year	SeasonOps	VehicleCat	VPopulation	Miles	VehTrips	DefaultFleet	TOG_RUNEX_A	TOG_IDLEX_A	TOG_STREX_A	TOG_DIURN_A	TOG_HOTSOAK_A	TOG_RUNLOSS_A	ROG_RUNEX_A	ROG_IDLEX_A	ROG_STREX_A	ROG_DIURN_A
Tulare	2028	Annual	HHDT	6131.701282	798849.6923	98883.7441	1.63%	0.042	0.517	0.000	0.000	0.000	0.000	0.014	0.368	0.000	0.000
Tulare	2028	Annual	LDA	175498.7523	7472987.722	809537.176	46.71%	0.007	0.000	0.254	0.303	0.077	0.206	0.005	0.000	0.232	0.303
Tulare	2028	Annual	LDT1	13399.532	465309.5993	56833.144	3.57%	0.048	0.000	0.658	0.944	0.228	0.665	0.033	0.000	0.601	0.944
Tulare	2028	Annual	LDT2	76594.14316	3150974.479	353320.955	20.39%	0.014	0.000	0.350	0.362	0.086	0.252	0.009	0.000	0.320	0.362
Tulare	2028	Annual	LHDT1	13392.81234	481389.8029	183365.341	3.56%	0.142	0.024	0.089	0.122	0.027	0.151	0.120	0.017	0.081	0.122
Tulare	2028	Annual	LHDT2	3478.591841	123495.892	45944.2454	0.93%	0.159	0.018	0.051	0.071	0.015	0.076	0.138	0.014	0.047	0.071
Tulare	2028	Annual	MCY	7939.727809	43974.62888	15879.4556	2.11%	1.270	0.000	1.480	2.968	3.643	4.044	1.059	0.000	1.361	2.968
Tulare	2028	Annual	MDV	71931.33611	2653531.729	320070.129	19.15%	0.020	0.000	0.497	0.542	0.122	0.382	0.014	0.000	0.454	0.542
Tulare	2028	Annual	MH	1247.690403	11147.42302	124.798848	0.33%	0.101	0.000	0.096	29.228	6.588	0.165	0.081	0.000	0.087	29.228
Tulare	2028	Annual	MHDT	4949.152108	227410.9246	61663.4875	1.32%	0.030	0.042	0.030	0.018	0.004	0.023	0.019	0.019	0.027	0.018
Tulare	2028	Annual	OBUS	233.2300014	12075.4206	3718.39031	0.06%	0.129	0.079	0.138	0.151	0.031	0.101	0.093	0.058	0.126	0.151
Tulare	2028	Annual	SBUS	720.6660392	20474.112	9000.47688	0.19%	0.369	0.868	0.028	0.066	0.012	0.233	0.042	0.510	0.026	0.066
Tulare	2028	Annual	UBUS	172.6972582	16766.71326	690.789033	0.05%	1.026	0.000	0.196	0.038	0.010	0.024	0.022	0.000	0.179	0.038
								TOG_RUNEX_S	TOG_IDLEX_S	TOG_STREX_S	TOG_DIURN_S	TOG_HOTSOAK_S	TOG_RUNLOSS_S	ROG_RUNEX_S	ROG_IDLEX_S	ROG_STREX_S	ROG_DIURN_S
Tulare	2028	Summer	HHDT	6131.701282	798849.6923	98883.7441	1.63%	0.042	0.541	0.000	0.000	0.000	0.000	0.014	0.390	0.000	0.000
Tulare	2028	Summer	LDA	175498.7523	7472987.722	809537.176	46.71%	0.008	0.000	0.213	0.410	0.085	0.215	0.005	0.000	0.194	0.410
Tulare	2028	Summer	LDT1	13399.532	465309.5993	56833.144	3.57%	0.051	0.000	0.548	1.317	0.256	0.703	0.035	0.000	0.500	1.317
Tulare	2028	Summer	LDT2	76594.14316	3150974.479	353320.955	20.39%	0.015	0.000	0.292	0.479	0.094	0.262	0.010	0.000	0.267	0.479
Tulare	2028	Summer	LHDT1	13392.81234	481389.8029	183365.341	3.56%	0.143	0.024	0.084	0.160	0.030	0.158	0.120	0.017	0.077	0.160
Tulare	2028	Summer	LHDT2	3478.591841	123495.892	45944.2454	0.93%	0.159	0.018	0.048	0.090	0.017	0.079	0.138	0.014	0.044	0.090
Tulare	2028	Summer	MCY	7939.727809	43974.62888	15879.4556	2.11%	1.262	0.000	1.268	4.704	3.886	4.341	1.050	0.000	1.166	4.704
Tulare	2028	Summer	MDV	71931.33611	2653531.729	320070.129	19.15%	0.022	0.000	0.416	0.695	0.133	0.394	0.015	0.000	0.380	0.695
Tulare	2028	Summer	MH	1247.690403	11147.42302	124.798848	0.33%	0.102	0.000	0.090	38.991	7.325	0.172	0.082	0.000	0.082	38.991
Tulare	2028	Summer	MHDT	4949.152108	227410.9246	61663.4875	1.32%	0.030	0.042	0.028	0.026	0.004	0.025	0.019	0.020	0.026	0.026
Tulare	2028	Summer	OBUS	233.2300014	12075.4206	3718.39031	0.06%	0.130	0.081	0.129	0.207	0.034	0.104	0.093	0.060	0.118	0.207
Tulare	2028	Summer	SBUS	720.6660392	20474.112	9000.47688	0.19%	0.369	0.868	0.022	0.087	0.013	0.234	0.043	0.510	0.021	0.087
Tulare	2028	Summer	UBUS	172.6972582	16766.71326	690.789033	0.05%	1.026	0.000	0.175	0.059	0.011	0.025	0.022	0.000	0.160	0.059
								TOG_RUNEX_W	TOG_IDLEX_W	TOG_STREX_W	TOG_DIURN_W	TOG_HOTSOAK_W	TOG_RUNLOSS_W	ROG_RUNEX_W	ROG_IDLEX_W	ROG_STREX_W	ROG_DIURN_W
Tulare	2028	Winter	HHDT	6131.701282	798849.6923	98883.7441	1.63%	0.042	0.483	0.000	0.000	0.000	0.000	0.014	0.338	0.000	0.000
Tulare	2028	Winter	LDA	175498.7523	7472987.722	809537.176	46.71%	0.007	0.000	0.298	0.263	0.070	0.206	0.005	0.000	0.272	0.263
Tulare	2028	Winter	LDT1	13399.532	465309.5993	56833.144	3.57%	0.046	0.000	0.775	0.788	0.203	0.669	0.032	0.000	0.708	0.788
Tulare	2028	Winter	LDT2	76594.14316	3150974.479	353320.955	20.39%	0.013	0.000	0.410	0.319	0.077	0.252	0.009	0.000	0.375	0.319
Tulare	2028	Winter	LHDT1	13392.81234	481389.8029	183365.341	3.56%	0.141	0.024	0.094	0.107	0.024	0.152	0.119	0.017	0.086	0.107
Tulare	2028	Winter	LHDT2	3478.591841	123495.892	45944.2454	0.93%	0.159	0.018	0.054	0.064	0.014	0.077	0.138	0.014	0.049	0.064
Tulare	2028	Winter	MCY	7939.727809	43974.62888	15879.4556	2.11%	1.300	0.000	1.762	2.333	3.344	4.251	1.088	0.000	1.621	2.333
Tulare	2028	Winter	MDV	71931.33611	2653531.729	320070.129	19.15%	0.020	0.000	0.584	0.488	0.110	0.382	0.013	0.000	0.533	0.488
Tulare	2028	Winter	MH	1247.690403	11147.42302	124.798848	0.33%	0.099	0.000	0.102	25.362	5.922	0.166	0.081	0.000	0.093	25.362
Tulare	2028	Winter	MHDT	4949.152108	227410.9246	61663.4875	1.32%	0.030	0.041	0.032	0.015	0.004	0.023	0.019	0.019	0.029	0.015
Tulare	2028	Winter	OBUS	233.2300014	12075.4206	3718.39031	0.06%	0.128	0.075	0.147	0.134	0.028	0.101	0.092	0.055	0.134	0.134
Tulare	2028	Winter	SBUS	720.6660392	20474.112	9000.47688	0.19%	0.368	0.868	0.033	0.061	0.011	0.233	0.042	0.510	0.031	0.061
Tulare	2028	Winter	UBUS	172.6972582	16766.71326	690.789033	0.05%	1.025	0.000	0.221	0.031	0.009	0.024	0.022	0.000	0.201	0.031

ANNUAL_LU	FLEET_SEASON	FLEET	TOG_RUNEX_FLTA	TOG_IDLEX_FLTA	TOG_STREX_FLTA	TOG_DIURN_FLTA	TOG_HOTSOAK_FLTA	TOG_RUNLOSS_FLTA	ROG_RUNEX_FLTA	ROG_IDLEX_FLTA	ROG_STREX_FLTA	ROG_DIURN_FLTA
Landuse 1	2028 Annual	Trucks	0.042	0.517	0.000	0.000	0.000	0.000	0.014	0.368	0.000	0.000
Landuse2	2028 Annual	Cars	0.013	0.000	0.344	0.393	0.095	0.272	0.009	0.000	0.314	0.393
SUMMER_LU		FLEET	TOG_RUNEX_FLTS	TOG_IDLEX_FLTS	TOG_STREX_FLTS	TOG_DIURN_FLTS	TOG_HOTSOAK_FLTS	TOG_RUNLOSS_FLTS	ROG_RUNEX_FLTS	ROG_IDLEX_FLTS	ROG_STREX_FLTS	ROG_DIURN_FLTS
Landuse 1	2028 Summer	Trucks	0.042	0.541	0.000	0.000	0.000	0.000	0.014	0.390	0.000	0.000
Landuse2	2028 Summer	Cars	0.014	0.000	0.287	0.523	0.104	0.283	0.010	0.000	0.262	0.523
WINTER_LU		FLEET	TOG_RUNEX_FLTW	TOG_IDLEX_FLTW	TOG_STREX_FLTW	TOG_DIURN_FLTW	TOG_HOTSOAK_FLTW	TOG_RUNLOSS_FLTW	ROG_RUNEX_FLTW	ROG_IDLEX_FLTW	ROG_STREX_FLTW	ROG_DIURN_FLTW
Landuse 1	2028 WInter	Trucks	0.042	0.483	0.000	0.000	0.000	0.000	0.014	0.338	0.000	0.000
Landuse2	2028 WInter	Cars	0.013	0.000	0.403	0.345	0.085	0.272	0.009	0.000	0.368	0.345

907184.7408 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County and Sub-Area
Region: Tulare

Region	Calendar Year	SeasonOps	VehicleCat	ROG_HOTSOAK_A	ROG_RUNLOSS_A	NOX_RUNEX_A	NOX_IDLEX_A	NOX_STREX_A	CO_RUNEX_A	CO_IDLEX_A	CO_STREX_A	SOX_RUNEX_A	SOX_IDLEX_A	SOX_STREX_A	PM25_RUNEX_A	PM25_IDLEX_A
Tulare	2028	Annual	HHDT	0.000	0.000	1.554	4.137	2.742	0.229	5.657	0.000	0.014	0.0076	0.000	0.026	0.002
Tulare	2028	Annual	LDA	0.077	0.208	0.027	0.000	0.202	0.585	0.000	2.367	0.002	0.000	0.001	0.001	0.000
Tulare	2028	Annual	LDT1	0.228	0.6647	0.163	0.000	0.423	1.751	0.000	5.813	0.003	0.000	0.001	0.002	0.000
Tulare	2028	Annual	LDT2	0.086	0.252	0.060	0.000	0.290	0.798	0.000	3.126	0.003	0.000	0.001	0.001	0.000
Tulare	2028	Annual	LHDT1	0.027	0.151	0.992	0.088	0.319	0.851	0.156	1.596	0.007	0.000	0.000	0.023	0.001
Tulare	2028	Annual	LHDT2	0.015	0.076	1.156	0.117	0.200	0.576	0.119	0.872	0.008	0.000	0.000	0.029	0.002
Tulare	2028	Annual	MCY	3.643	4.044	0.594	0.000	0.140	13.277	0.000	8.132	0.002	0.000	0.000	0.002	0.000
Tulare	2028	Annual	MDV	0.122	0.382	0.091	0.000	0.390	0.975	0.000	3.606	0.004	0.000	0.001	0.001	0.000
Tulare	2028	Annual	MH	6.588	0.165	2.126	0.000	0.277	0.681	0.000	1.854	0.016	0.000	0.000	0.051	0.000
Tulare	2028	Annual	MHDT	0.004	0.023	0.757	0.797	1.391	0.174	0.655	0.582	0.010	0.002	0.000	0.007	0.001
Tulare	2028	Annual	OBUS	0.031	0.101	1.509	0.483	0.839	0.843	0.774	2.601	0.014	0.001	0.000	0.029	0.001
Tulare	2028	Annual	SBUS	0.012	0.233	2.047	1.036	0.454	1.316	4.360	0.522	0.008	0.002	0.000	0.010	0.001
Tulare	2028	Annual	UBUS	0.010	0.024	0.128	0.000	0.307	9.361	0.000	3.233	0.005	0.000	0.000	0.001	0.000

				ROG_HOTSOAK_S	ROG_RUNLOSS_S	NOX_RUNEX_S	NOX_IDLEX_S	NOX_STREX_S	CO_RUNEX_S	CO_IDLEX_S	CO_STREX_S	SOX_RUNEX_S	SOX_IDLEX_S	SOX_STREX_S	PM25_RUNEX_S	PM25_IDLEX_S
Tulare	2028	Summer	HHDT	0.000	0.000	1.478	3.943	2.742	0.229	5.584	0.000	0.014	0.007	0.000	0.026	0.002
Tulare	2028	Summer	LDA	0.085	0.215	0.024	0.000	0.190	0.832	0.000	1.994	0.003	0.000	0.001	0.001	0.000
Tulare	2028	Summer	LDT1	0.256	0.703	0.143	0.000	0.398	2.482	0.000	4.831	0.003	0.000	0.001	0.002	0.000
Tulare	2028	Summer	LDT2	0.094	0.262	0.053	0.000	0.274	1.135	0.000	2.619	0.003	0.000	0.001	0.001	0.000
Tulare	2028	Summer	LHDT1	0.030	0.158	0.937	0.088	0.301	0.867	0.156	1.489	0.007	0.000	0.000	0.023	0.001
Tulare	2028	Summer	LHDT2	0.017	0.079	1.096	0.117	0.189	0.582	0.119	0.814	0.008	0.000	0.000	0.029	0.002
Tulare	2028	Summer	MCY	3.886	4.341	0.517	0.000	0.129	13.605	0.000	7.192	0.002	0.000	0.000	0.002	0.000
Tulare	2028	Summer	MDV	0.133	0.394	0.080	0.000	0.367	1.382	0.000	3.016	0.004	0.000	0.001	0.001	0.000
Tulare	2028	Summer	MH	7.325	0.172	2.005	0.000	0.261	0.696	0.000	1.688	0.016	0.000	0.000	0.051	0.000
Tulare	2028	Summer	MHDT	0.004	0.025	0.718	0.770	1.389	0.176	0.625	0.541	0.010	0.002	0.000	0.007	0.001
Tulare	2028	Summer	OBUS	0.034	0.104	1.419	0.463	0.825	0.861	0.762	2.368	0.014	0.001	0.000	0.029	0.001
Tulare	2028	Summer	SBUS	0.013	0.234	1.936	1.049	0.450	1.324	4.349	0.350	0.008	0.002	0.000	0.010	0.001
Tulare	2028	Summer	UBUS	0.011	0.025	0.122	0.000	0.288	9.363	0.000	2.644	0.005	0.000	0.000	0.001	0.000

				ROG_HOTSOAK_W	ROG_RUNLOSS_W	NOX_RUNEX_W	NOX_IDLEX_W	NOX_STREX_W	CO_RUNEX_W	CO_IDLEX_W	CO_STREX_W	SOX_RUNEX_W	SOX_IDLEX_W	SOX_STREX_W	PM25_RUNEX_W	PM25_IDLEX_W
Tulare	2028	Winter	HHDT	0.000	0.000	1.583	4.405	2.742	0.229	5.757	0.000	0.014	0.008	0.000	0.026	0.002
Tulare	2028	Winter	LDA	0.070	0.206	0.030	0.000	0.223	0.499	0.000	2.881	0.002	0.000	0.001	0.001	0.000
Tulare	2028	Winter	LDT1	0.203	0.669	0.182	0.000	0.466	1.496	0.000	7.133	0.003	0.000	0.001	0.002	0.000
Tulare	2028	Winter	LDT2	0.077	0.252	0.067	0.000	0.320	0.680	0.000	3.815	0.003	0.000	0.001	0.001	0.000
Tulare	2028	Winter	LHDT1	0.024	0.152	1.015	0.088	0.340	0.835	0.156	1.724	0.007	0.000	0.000	0.023	0.001
Tulare	2028	Winter	LHDT2	0.014	0.077	1.179	0.117	0.214	0.570	0.119	0.942	0.008	0.000	0.000	0.029	0.002
Tulare	2028	Winter	MCY	3.344	4.251	0.645	0.000	0.151	13.609	0.000	9.526	0.002	0.000	0.001	0.002	0.000
Tulare	2028	Winter	MDV	0.110	0.382	0.102	0.000	0.430	0.833	0.000	4.404	0.004	0.000	0.001	0.001	0.000
Tulare	2028	Winter	MH	5.922	0.166	2.177	0.000	0.296	0.665	0.000	2.051	0.016	0.000	0.000	0.051	0.000
Tulare	2028	Winter	MHDT	0.004	0.023	0.773	0.835	1.394	0.171	0.691	0.632	0.010	0.002	0.000	0.007	0.001
Tulare	2028	Winter	OBUS	0.028	0.101	1.550	0.511	0.857	0.825	0.789	2.876	0.014	0.001	0.000	0.029	0.001
Tulare	2028	Winter	SBUS	0.011	0.233	2.095	1.018	0.458	1.308	4.374	0.707	0.008	0.002	0.000	0.010	0.001
Tulare	2028	Winter	UBUS	0.009	0.024	0.132	0.000	0.327	9.358	0.000	3.917	0.005	0.000	0.000	0.001	0.000

ANNUAL_LU	FLEET_SEASON			ROG_HOTSOAK_FLTA	ROG_RUNLOSS_FLTA	NOX_RUNEX_FLTA	NOX_IDLEX_FLTA	NOX_STREX_FLTA	CO_RUNEX_FLTA	CO_IDLEX_FLTA	CO_STREX_FLTA	SOX_RUNEX_FLTA	SOX_IDLEX_FLTA	SOX_STREX_FLTA	PM25_RUNEX_FLTA	PM25_IDLEX_FLTA
Landuse 1	2028	Annual		0.000	0.000	1.554	4.137	2.742	0.229	5.657	0.000	0.014	0.008	0.000	0.026	0.002
Landuse2	2028	Annual		0.095	0.273	0.054	0.000	0.271	0.763	0.000	2.940	0.003	0.000	0.001	0.001	0.000
SUMMER_LU				ROG_HOTSOAK_FLTS	ROG_RUNLOSS_FLTS	NOX_RUNEX_FLTS	NOX_IDLEX_FLTS	NOX_STREX_FLTS	CO_RUNEX_FLTS	CO_IDLEX_FLTS	CO_STREX_FLTS	SOX_RUNEX_FLTS	SOX_IDLEX_FLTS	SOX_STREX_FLTS	PM25_RUNEX_FLTS	PM25_IDLEX_FLTS
Landuse 1	2028	Summer		0.000	0.000	1.478	3.943	2.742	0.229	5.584	0.000	0.014	0.007	0.000	0.026	0.002
Landuse2	2028	Summer		0.104	0.283	0.047	0.000	0.255	1.084	0.000	2.466	0.003	0.000	0.001	0.001	0.000
WINTER_LU				ROG_HOTSOAK_FLTW	ROG_RUNLOSS_FLTW	NOX_RUNEX_FLTW	NOX_IDLEX_FLTW	NOX_STREX_FLTW	CO_RUNEX_FLTW	CO_IDLEX_FLTW	CO_STREX_FLTW	SOX_RUNEX_FLTW	SOX_IDLEX_FLTW	SOX_STREX_FLTW	PM25_RUNEX_FLTW	PM25_IDLEX_FLTW
Landuse 1	2028	WInter		0.000	0.000	1.583	4.405	2.742	0.229	5.757	0.000	0.014	0.008	0.000	0.026	0.002
Landuse2	2028	WInter		0.085	0.272	0.060	0.000	0.299	0.651	0.000	3.586	0.003	0.000	0.001	0.001	0.000

907184.7408 Unit Conversion grams to tons
25 GWP_CH4
298 GWP_N2O

Appendix B:
Health Risk Assessment

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Appendix B:
Health Risk Assessment

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Appendix B: Health Risk Assessment

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***Complete AERMOD output files available upon request.**

Shirk and Riggin Industrial Park Project Construction Assumptions

CalEEMod output file: Shirk and Riggin Industrial Park Project Off-site Improvements Construction - Tulare County, Annual
Time stamp: Date: 9/14/2022 4:51 PM
CalEEMod output file: 4115.0039 Shirk & Riggin Industrial Park Project - Con Site Prep and Grading Only - Tulare County, Annual
Time stamp: Date: 9/14/2022 5:00 PM
CalEEMod output file: 4115.0039 Shirk & Riggin Industrial Park Project - Construction PHASE 1 - Tulare County, Annual
Time stamp: Date: 9/14/2022 4:54 PM
CalEEMod output file: 4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 2 - Tulare County, Annual
Time stamp: Date: 9/14/2022 4:56 PM
CalEEMod output file: 4115.0039 Shirk & Riggin Industrial Park Project Construction Phase 3 - Tulare County, Annual
Time stamp: Date: 9/14/2022 4:58 PM

Project Construction

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Site Preparation and Grading Only					
Site Preparation	Site Preparation	3/14/2024	11/20/2024	5	180
Grading	Grading	11/21/2024	9/2/2026	5	465
Phase 1					
Building Construction	Building Construction	3/14/2024	3/14/2025	5	262
Paving	Paving	3/14/2024	1/15/2025	5	220
Architectural Coating	Architectural Coating	5/10/2024	3/13/2025	5	220
Phase 2					
Building Construction	Building Construction	9/12/2025	9/12/2026	5	261
Paving	Paving	9/12/2025	12/25/2025	5	75
Architectural Coating	Architectural Coating	6/1/2026	9/11/2026	5	75
Phase 3					
Building Construction	Building Construction	3/12/2028	3/12/2028	5	261
Paving	Paving	3/12/2027	8/12/2027	5	110
Architectural Coating	Architectural Coating	10/1/2027	3/10/2028	5	110
Off-site Improvements					
Paving	Paving	3/14/2024	4/10/2024	5	20
Architectural Coating	Architectural Coating	4/11/2024	5/8/2024	5	20

Off-Road Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Days
Site Preparation and Grading Only						
Site Preparation	Rubber Tired Dozers	3	8	247	0.40	180
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37	180
Grading	Excavators	2	8	158	0.38	465
Grading	Graders	1	8	187	0.41	465
Grading	Rubber Tired Dozers	1	8	247	0.40	465
Grading	Scrapers	2	8	367	0.48	465
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37	465
Phase 1						
Building Construction	Cranes	12	6.9	231	0.29	262
Building Construction	Forklifts	32	8.9	89	0.20	262
Building Construction	Generator Sets	12	7.9	84	0.74	262
Building Construction	Tractors/Loaders/Backhoes	32	7.8	97	0.37	262
Building Construction	Welders	12	7.9	46	0.45	262
Paving	Pavers	2	8	130	0.42	220
Paving	Paving Equipment	2	8	132	0.36	220
Paving	Rollers	2	8	80	0.38	220
Architectural Coating	Air Compressors	1	6	78	0.48	220
Phase 2						
Building Construction	Cranes	4	7.4	231	0.29	261
Building Construction	Forklifts	12	8.5	89	0.20	261
Building Construction	Generator Sets	4	8.5	84	0.74	261
Building Construction	Tractors/Loaders/Backhoes	12	7.4	97	0.37	261
Building Construction	Welders	4	8.4	46	0.45	261
Paving	Pavers	2	8	130	0.42	75
Paving	Paving Equipment	2	8	132	0.36	75
Paving	Rollers	2	8	80	0.38	75
Architectural Coating	Air Compressors	1	6	78	0.48	75
Phase 3						

Building Construction	Cranes	6	6.9	231	0.29	261
Building Construction	Forklifts	18	7.9	89	0.20	261
Building Construction	Generator Sets	6	7.9	84	0.74	261
Building Construction	Tractors/Loaders/Backhoes	16	7.8	97	0.37	261
Building Construction	Welders	6	7.9	46	0.45	261
Paving	Pavers	2	8	130	0.42	110
Paving	Paving Equipment	2	8	132	0.36	110
Paving	Rollers	2	8	80	0.38	110
Architectural Coating	Air Compressors	1	6	78	0.48	110
Off-site Improvements Only						
Paving	Pavers	2	8	130	0.42	20
Paving	Paving Equipment	2	8	132	0.36	20
Paving	Rollers	2	8	80	0.38	20
Architectural Coating	Air Compressors	1	6	78	0.48	20

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Site Preparation and Grading Only				9.1	7.3	20
Site Preparation	18	0	0	9.1	7.3	20
Grading	20	0	16250	9.1	7.3	20
Phase 1				9.1	7.3	20
Building Construction	2159	842	0	9.1	7.3	20
Paving	15	0	0	9.1	7.3	20
Architectural Coating	432	0	0	9.1	7.3	20
Phase 2				9.1	7.3	20
Building Construction	1207	471	0	9.1	7.3	20
Paving	15	0	0	9.1	7.3	20
Architectural Coating	241	0	0	9.1	7.3	20
Phase 3				9.1	7.3	20
Building Construction	1518	592	0	9.1	7.3	20
Paving	15	0	0	9.1	7.3	20
Architectural Coating	304	0	0	9.1	7.3	20
Off-site Improvements Only				9.1	7.3	20
Paving	15	0	0	9.1	7.3	20
Architectural Coating	50	0	0	9.1	7.3	20

StationID	WBAN #	Start Year	End Year	StationName	Elevation (m)	Anemometer Height (m)	Lat	Long	County Name	Call Sign	Type	AERMET	AERMINUTE	AERSURFACE
1	99001	2007	2011	Arvin	267	14	35.2667	118.8500	Kern		MM5			
2	23155	2012	2016	Bakersfield	150	10	35.4330	119.0500	Kern	KBFL	NCDC			
3	99002	2004	2008	Fellows	472	14	35.1833	119.5333	Kern		MM5			
4	93193	2010	2014	Fresno	100	10	36.7670	119.7170	Fresno	KFAT	NCDC			
5	53119	2010	2014	Hanford	74	10	36.3190	119.6280	Kings	KHJO	NCDC			
6	99003	2007	2011	Kettleman	174	14	35.9667	120.0000	Kern		MM5			
7	23110	2011	2013	Lemoore NAS	71	10	36.3330	119.9520	Kings /Fresno	KNLC	NCDC			
8	99004	2004	2008	Los Banos	42	15	37.0500	120.8333	Merced		MM5			
9	93242	2009	2011	Madera	77	10	36.9880	120.1100	Madera	KMAE	NCDC			
10	99005	2007	2011	Mendota	45	15	36.7500	120.3667	Fresno/ Madera		MM5			
11	23257	2010	2014	Merced	48	10	37.2850	120.5100	Merced	KMCE	NCDC			
12	99006	2004	2008	Missouri Triangle	268	15	35.4333	119.6833	Kern		MM5	18081	15272	13016
13	23258	2010	2014	Modesto	30	10	37.6260	120.9500	Stanislaus	KMOD	NCDC			
14	23149	2006	2009	Porterville	135	10	36.0330	119.0670	Tulare	KPTV	NCDC			
15	23237	2010	2014	Stockton	8	10	37.9000	121.2500	San Joaquin	KSCK	NCDC			
16	99007	2007	2011	Tipton	64	14	36.0833	119.3833	Tulare		MM5			
17	99008	2004	2008	Tracy	158	14	37.6333	121.3500	San Joaquin / Stanislaus		MM5			
18	99009	2004	2008	Turk	165	15	36.1333	120.1667	Fresno		MM5			
19	93144	2007	2010	Visalia	89	10	36.3170	119.4000	Tulare	KVIS	NCDC			
20	99010	2007	2011	Wasco	77	15	35.6000	119.4000	Kern		MM5			
21	99011	2010	2014	Coalinga	584	14	36.189189	120.4004	Fresno		MM5			
22	99012	2011	2015	Acampo	5	15	38.1893	121.2832	San Joaquin		MM5			
23	99013	2013	2017	Conner	124	14	35.1801	119.1150	Kern		MM5			

Notes:

*

AERMINUTE

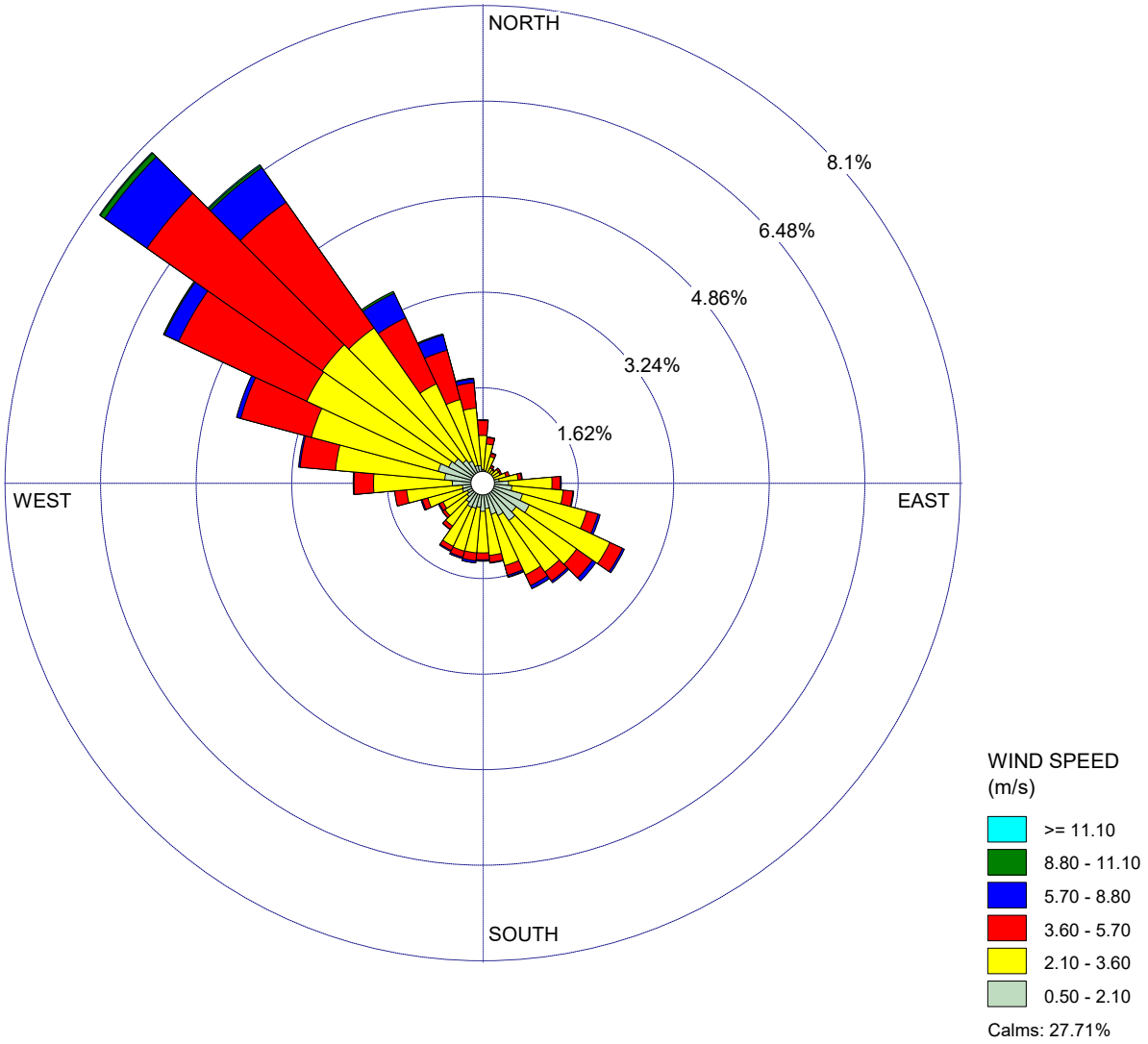
- MM5 sites do not contain 1 minute data,
- NCDC sites without 1 minute data (Porterville & Visalia)

WIND ROSE PLOT:

Wind Rose - Station #93144 – Blowing From Visalia Station – KVIS

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 1/1/2007 - 00:00** **End Date: 12/31/2010 - 23:59**		
	CALM WINDS: **27.71%**	TOTAL COUNT: **34417 hrs.**	
	AVG. WIND SPEED: **2.26 m/s**	DATE: **2/8/2023**	PROJECT NO.:

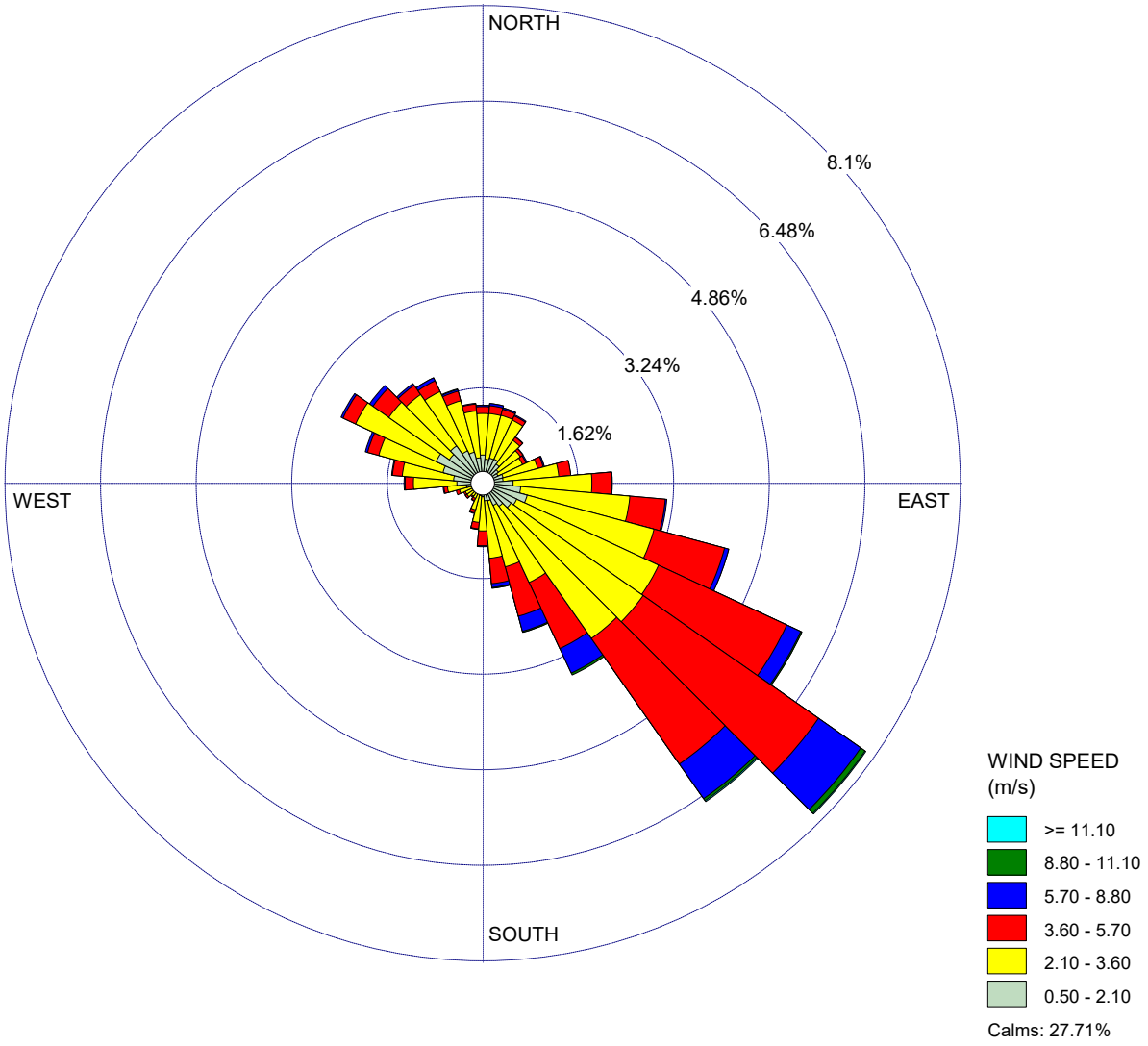
WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:

Wind Rose - Station #93144 – Blowing To Visalia Station – KVIS

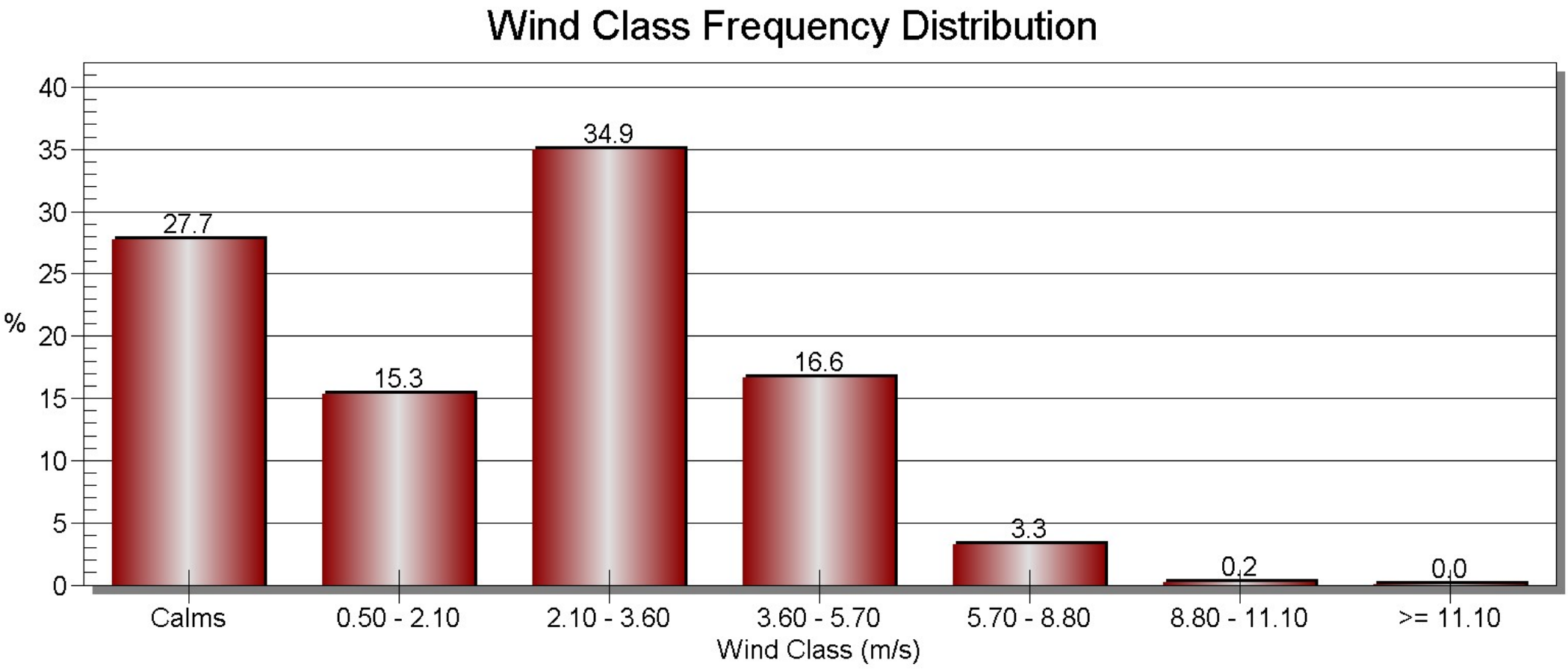
DISPLAY:

Wind Speed
Flow Vector (blowing to)



COMMENTS:	DATA PERIOD: **Start Date: 1/1/2007 - 00:00** **End Date: 12/31/2010 - 23:59**		
	CALM WINDS: **27.71%**	TOTAL COUNT: **34417 hrs.**	
	AVG. WIND SPEED: **2.26 m/s**	DATE: **2/8/2023**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software


Wind Class Frequency Distribution
40
35
30
25
20
15
10
5
0
%
27.7
15.3
34.9
16.6
3.3
0.2
0.0
Calms
0.50 - 2.10
2.10 - 3.60
3.60 - 5.70
5.70 - 8.80
8.80 - 11.10
>= 11.10
Wind Class (m/s)

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Construction—DPM)

Estimation of Annual Onsite Construction Emissions (Project Site)—DPM (Exhaust PM10)

Start of Construction	3/14/2024	
End of Construction	3/12/2028	**Total**
Number of Days	1,459	1459
Number of Hours	35,016	35,016

Size of the construction area source (entire site):	**1,151,073**	**sq-meters**
	284	**acres**

Year	**On-site Construction Activity**	**Unmitigated On-site DPM (tons)**
2024	On-site DPM (PM10 exhaust)	0.94952
2025	On-site DPM (PM10 exhaust)	0.42104
2026	On-site DPM (PM10 exhaust)	0.30423
2027	On-site DPM (PM10 exhaust)	0.35460
2028	On-site DPM (PM10 exhaust)	0.07949

Total Unmitigated DPM (On-site)	2.109E+00	tons

Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2
1 g/s used as the unit emission in AERMOD - converted to g/s/m2 in AERMOD

Average Emission (Emissions Summary for HARP2 Inputs)

Tons/Construction Period	2.109
Pounds/Construction Period	4218
Pounds/Year	1055
Years	4.0

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Construction—DPM)

Estimation of Annual Offsite Construction DPM Emissions (Project Site)

Start of Construction		3/14/2024				
End of Construction		3/12/2028				**Total**
Number of Days		1,459				1459
Number of Hours		35,016				35,016
	2024	2025	2026	2027	2028	
Construction Trip Type	Offsite	Offsite	Offsite	Offsite	Offsite	
Total	0.03648	0.02169	0.02020	0.02346	0.00558	
	(tons)	**(tons)**	**(tons)**	**(tons)**		
Total DPM	3.648E-02	0.000E+00	7.093E-02	1.074E-01		
Average Emissions						
Grams	3.312E+04	0.000E+00	6.440E+04			
Grams/sec	2.628E-04	0.000E+00	5.109E-04			
Default Distance	20	7.3	10.8	Vehicle Travel Distance Assumed in CalEEMod		
Vehicle Travel Distances in the Construction HRA (miles)						
Road Segment 1	0.50	0.50	0.50	miles		
Road Segment 2	0.50	0.50	0.50	miles		
Additional Localized	0.25	0.00	0.00	miles		
Trip Distribution (percent)						
Off-site Road Segment 1	50.0%	50.0%	50.0%	Off-site Road Segment 1		
Off-site Road Segment 2	50.0%	50.0%	50.0%	Off-site Road Segment 2		
Additional Localized	100.0%	100.0%	100.0%	(0.25 mi to account for expected increases from idle/speed)		
Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total**		
Road Segment 1	4.9269E-06	0.0000E+00	1.1827E-05	1.6754E-05	Off-site Road Segment 1	
Road Segment 2	4.9269E-06	0.0000E+00	1.1827E-05	1.6754E-05	Off-site Road Segment 2	

Average Emission (Emissions Summary for HARP2 Inputs)

	Grams/sec	Pounds/Hour	Pounds/Day	Pounds/year
Road Segment 1 (Off1)	1.6754E-05	1.3297E-04	3.1912E-03	4.66E+00
Road Segment 2 (Off2)	1.6754E-05	1.3297E-04	3.1912E-03	4.66E+00

HARP Project Summary Report 9/13/2023 11:32:37 AM

PROJECT INFORMATION
HARP Version: 22118
Project Name: CONUM
Project Output Directory: F:\Jobs\41150039\HARP\CONUM
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:3
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
Onsite	0	0	9901	DieselExhPM	1	1055	0	1
Off1	0	0	9901	DieselExhPM	1	4.66	0	1
Off2	0	0	9901	DieselExhPM	1	4.66	0	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH22013
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
9901	DieselExhPM	1.1			5		

Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	1.12E-05	11.213	0.005340

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/13/2023 10:08:35 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\CONUM\hra\ConUnmitHRAInput.hra

*HARP - HRACalc v22118 9/13/2023 10:08:35 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\CONUM\hra\ConUnmitHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLABBREV	RISK_SUM	SCENARIO
1	ALL	RESIDENT	287571.61	4026059.7	0.026702	DieselExhPM	1.12E-05	4YrCancerDerived_InhSoilDermMMilk
2	ALL	RESIDENT	287591.26	4026057.63	0.024200	DieselExhPM	1.02E-05	4YrCancerDerived_InhSoilDermMMilk
3	ALL	RESIDENT	287608.83	4026059.7	0.022724	DieselExhPM	9.54E-06	4YrCancerDerived_InhSoilDermMMilk
17	ALL	RESIDENT	287571.61	4026021.44	0.020894	DieselExhPM	8.77E-06	4YrCancerDerived_InhSoilDermMMilk
4	ALL	RESIDENT	287627.45	4026057.63	0.020846	DieselExhPM	8.75E-06	4YrCancerDerived_InhSoilDermMMilk
5	ALL	RESIDENT	287645.03	4026058.67	0.019589	DieselExhPM	8.23E-06	4YrCancerDerived_InhSoilDermMMilk
22	ALL	RESIDENT	287601.6	4026020.41	0.019148	DieselExhPM	8.04E-06	4YrCancerDerived_InhSoilDermMMilk
18	ALL	RESIDENT	287572.64	4025999.73	0.018561	DieselExhPM	7.79E-06	4YrCancerDerived_InhSoilDermMMilk
23	ALL	RESIDENT	287622.28	4026023.51	0.018241	DieselExhPM	7.66E-06	4YrCancerDerived_InhSoilDermMMilk
6	ALL	RESIDENT	287668.81	4026057.63	0.017912	DieselExhPM	7.52E-06	4YrCancerDerived_InhSoilDermMMilk
24	ALL	RESIDENT	287639.86	4026023.51	0.017277	DieselExhPM	7.26E-06	4YrCancerDerived_InhSoilDermMMilk
19	ALL	RESIDENT	287570.57	4025981.11	0.017028	DieselExhPM	7.15E-06	4YrCancerDerived_InhSoilDermMMilk
26	ALL	RESIDENT	287607.8	4025997.66	0.017019	DieselExhPM	7.15E-06	4YrCancerDerived_InhSoilDermMMilk
25	ALL	RESIDENT	287659.5	4026025.58	0.016385	DieselExhPM	6.88E-06	4YrCancerDerived_InhSoilDermMMilk
7	ALL	RESIDENT	287685.36	4026045.23	0.016169	DieselExhPM	6.79E-06	4YrCancerDerived_InhSoilDermMMilk
27	ALL	RESIDENT	287604.7	4025982.15	0.016067	DieselExhPM	6.75E-06	4YrCancerDerived_InhSoilDermMMilk
20	ALL	RESIDENT	287569.54	4025962.5	0.015703	DieselExhPM	6.59E-06	4YrCancerDerived_InhSoilDermMMilk
8	ALL	RESIDENT	287707.07	4026046.26	0.015174	DieselExhPM	6.37E-06	4YrCancerDerived_InhSoilDermMMilk
28	ALL	RESIDENT	287632.62	4025979.05	0.014949	DieselExhPM	6.28E-06	4YrCancerDerived_InhSoilDermMMilk
21	ALL	RESIDENT	287566.44	4025939.75	0.014362	DieselExhPM	6.03E-06	4YrCancerDerived_InhSoilDermMMilk
29	ALL	RESIDENT	287653.3	4025981.11	0.014352	DieselExhPM	6.03E-06	4YrCancerDerived_InhSoilDermMMilk
9	ALL	RESIDENT	287727.75	4026047.29	0.014327	DieselExhPM	6.02E-06	4YrCancerDerived_InhSoilDermMMilk
32	ALL	RESIDENT	287685.36	4025990.42	0.013653	DieselExhPM	5.73E-06	4YrCancerDerived_InhSoilDermMMilk
30	ALL	RESIDENT	287626.41	4025946.99	0.013527	DieselExhPM	5.68E-06	4YrCancerDerived_InhSoilDermMMilk
33	ALL	RESIDENT	287702.93	4025987.32	0.012957	DieselExhPM	5.44E-06	4YrCancerDerived_InhSoilDermMMilk
10	ALL	RESIDENT	287768.08	4026043.16	0.012655	DieselExhPM	5.31E-06	4YrCancerDerived_InhSoilDermMMilk
31	ALL	RESIDENT	287661.57	4025945.96	0.012634	DieselExhPM	5.31E-06	4YrCancerDerived_InhSoilDermMMilk
40	ALL	RESIDENT	287683.29	4025955.26	0.012419	DieselExhPM	5.22E-06	4YrCancerDerived_InhSoilDermMMilk
34	ALL	RESIDENT	287725.68	4025989.39	0.012319	DieselExhPM	5.17E-06	4YrCancerDerived_InhSoilDermMMilk
41	ALL	RESIDENT	287575.74	4025898.39	0.012239	DieselExhPM	5.14E-06	4YrCancerDerived_InhSoilDermMMilk
11	ALL	RESIDENT	287785.66	4026043.16	0.012092	DieselExhPM	5.08E-06	4YrCancerDerived_InhSoilDermMMilk
39	ALL	RESIDENT	287703.97	4025953.19	0.011822	DieselExhPM	4.96E-06	4YrCancerDerived_InhSoilDermMMilk
35	ALL	RESIDENT	287746.37	4025988.35	0.011688	DieselExhPM	4.91E-06	4YrCancerDerived_InhSoilDermMMilk
49	ALL	RESIDENT	287635.72	4025897.35	0.011387	DieselExhPM	4.78E-06	4YrCancerDerived_InhSoilDermMMilk
42	ALL	RESIDENT	287578.85	4025875.64	0.011330	DieselExhPM	4.76E-06	4YrCancerDerived_InhSoilDermMMilk
12	ALL	RESIDENT	287812.55	4026043.16	0.011312	DieselExhPM	4.75E-06	4YrCancerDerived_InhSoilDermMMilk
38	ALL	RESIDENT	287726.72	4025951.13	0.011210	DieselExhPM	4.71E-06	4YrCancerDerived_InhSoilDermMMilk
36	ALL	RESIDENT	287763.94	4025985.25	0.011135	DieselExhPM	4.68E-06	4YrCancerDerived_InhSoilDermMMilk
50	ALL	RESIDENT	287664.67	4025897.35	0.010930	DieselExhPM	4.59E-06	4YrCancerDerived_InhSoilDermMMilk
13	ALL	RESIDENT	287832.19	4026044.19	0.010831	DieselExhPM	4.55E-06	4YrCancerDerived_InhSoilDermMMilk
48	ALL	RESIDENT	287626.41	4025872.54	0.010710	DieselExhPM	4.50E-06	4YrCancerDerived_InhSoilDermMMilk
51	ALL	RESIDENT	287689.49	4025901.49	0.010632	DieselExhPM	4.46E-06	4YrCancerDerived_InhSoilDermMMilk
43	ALL	RESIDENT	287578.85	4025851.86	0.010532	DieselExhPM	4.42E-06	4YrCancerDerived_InhSoilDermMMilk
37	ALL	RESIDENT	287772.22	4025953.19	0.010228	DieselExhPM	4.30E-06	4YrCancerDerived_InhSoilDermMMilk
69	ALL	RESIDENT	287812.55	4025992.49	0.010100	DieselExhPM	4.24E-06	4YrCancerDerived_InhSoilDermMMilk
52	ALL	RESIDENT	287709.14	4025893.22	0.010088	DieselExhPM	4.24E-06	4YrCancerDerived_InhSoilDermMMilk
47	ALL	RESIDENT	287627.45	4025850.82	0.010060	DieselExhPM	4.22E-06	4YrCancerDerived_InhSoilDermMMilk
14	ALL	RESIDENT	287878.73	4026049.36	0.009932	DieselExhPM	4.17E-06	4YrCancerDerived_InhSoilDermMMilk
53	ALL	RESIDENT	287727.75	4025897.35	0.009876	DieselExhPM	4.15E-06	4YrCancerDerived_InhSoilDermMMilk
101	ALL	RESIDENT	287665.71	4025859.09	0.009854	DieselExhPM	4.14E-06	4YrCancerDerived_InhSoilDermMMilk
44	ALL	RESIDENT	287577.81	4025828.07	0.009835	DieselExhPM	4.13E-06	4YrCancerDerived_InhSoilDermMMilk
15	ALL	RESIDENT	287895.27	4026054.53	0.009792	DieselExhPM	4.11E-06	4YrCancerDerived_InhSoilDermMMilk
70	ALL	RESIDENT	287833.23	4025991.45	0.009625	DieselExhPM	4.04E-06	4YrCancerDerived_InhSoilDermMMilk
100	ALL	RESIDENT	287687.42	4025858.06	0.009560	DieselExhPM	4.01E-06	4YrCancerDerived_InhSoilDermMMilk
54	ALL	RESIDENT	287752.57	4025892.18	0.009361	DieselExhPM	3.93E-06	4YrCancerDerived_InhSoilDermMMilk
68	ALL	RESIDENT	287810.48	4025948.02	0.009356	DieselExhPM	3.93E-06	4YrCancerDerived_InhSoilDermMMilk
99	ALL	RESIDENT	287712.24	4025862.2	0.009332	DieselExhPM	3.92E-06	4YrCancerDerived_InhSoilDermMMilk

Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	1.12E-05	11.213	0.005340

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/13/2023 10:08:35 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\CONUM\hra\ConUnmitHRAInput.hra

*HARP - HRACalc v22118 9/13/2023 10:08:35 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\CONUM\hra\ConUnmitHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLABBREV	RISK_SUM	SCENARIO
71	ALL	RESIDENT	287852.87	4025990.42	0.009205	DieselExhPM	3.87E-06	4YrCancerDerived_InhSoilDermMMilk
45	ALL	RESIDENT	287584.02	4025805.32	0.009199	DieselExhPM	3.86E-06	4YrCancerDerived_InhSoilDermMMilk
16	ALL	RESIDENT	287914.92	4026048.33	0.009185	DieselExhPM	3.86E-06	4YrCancerDerived_InhSoilDermMMilk
55	ALL	RESIDENT	287772.22	4025896.32	0.009126	DieselExhPM	3.83E-06	4YrCancerDerived_InhSoilDermMMilk
98	ALL	RESIDENT	287730.85	4025862.2	0.009084	DieselExhPM	3.81E-06	4YrCancerDerived_InhSoilDermMMilk
46	ALL	RESIDENT	287622.28	4025810.49	0.009073	DieselExhPM	3.81E-06	4YrCancerDerived_InhSoilDermMMilk
75	ALL	RESIDENT	287643.99	4025808.42	0.008860	DieselExhPM	3.72E-06	4YrCancerDerived_InhSoilDermMMilk
97	ALL	RESIDENT	287751.54	4025864.26	0.008844	DieselExhPM	3.71E-06	4YrCancerDerived_InhSoilDermMMilk
67	ALL	RESIDENT	287837.36	4025945.96	0.008831	DieselExhPM	3.71E-06	4YrCancerDerived_InhSoilDermMMilk
56	ALL	RESIDENT	287798.07	4025899.42	0.008771	DieselExhPM	3.68E-06	4YrCancerDerived_InhSoilDermMMilk
72	ALL	RESIDENT	287876.66	4025988.35	0.008722	DieselExhPM	3.66E-06	4YrCancerDerived_InhSoilDermMMilk
76	ALL	RESIDENT	287664.67	4025808.42	0.008691	DieselExhPM	3.65E-06	4YrCancerDerived_InhSoilDermMMilk
102	ALL	RESIDENT	287962.23	4026054.51	0.008616	DieselExhPM	3.62E-06	4YrCancerDerived_InhSoilDermMMilk
96	ALL	RESIDENT	287773.25	4025863.23	0.008534	DieselExhPM	3.58E-06	4YrCancerDerived_InhSoilDermMMilk
66	ALL	RESIDENT	287855.98	4025942.85	0.008471	DieselExhPM	3.56E-06	4YrCancerDerived_InhSoilDermMMilk
77	ALL	RESIDENT	287692.59	4025809.46	0.008466	DieselExhPM	3.56E-06	4YrCancerDerived_InhSoilDermMMilk
57	ALL	RESIDENT	287817.72	4025897.35	0.008440	DieselExhPM	3.54E-06	4YrCancerDerived_InhSoilDermMMilk
73	ALL	RESIDENT	287891.13	4025986.28	0.008437	DieselExhPM	3.54E-06	4YrCancerDerived_InhSoilDermMMilk
78	ALL	RESIDENT	287709.14	4025814.63	0.008409	DieselExhPM	3.53E-06	4YrCancerDerived_InhSoilDermMMilk
103	ALL	RESIDENT	287985.57	4026052.9	0.008206	DieselExhPM	3.45E-06	4YrCancerDerived_InhSoilDermMMilk
58	ALL	RESIDENT	287837.36	4025899.42	0.008180	DieselExhPM	3.44E-06	4YrCancerDerived_InhSoilDermMMilk
79	ALL	RESIDENT	287729.82	4025812.56	0.008170	DieselExhPM	3.43E-06	4YrCancerDerived_InhSoilDermMMilk
95	ALL	RESIDENT	287793.93	4025857.03	0.008167	DieselExhPM	3.43E-06	4YrCancerDerived_InhSoilDermMMilk
65	ALL	RESIDENT	287878.73	4025943.89	0.008118	DieselExhPM	3.41E-06	4YrCancerDerived_InhSoilDermMMilk
74	ALL	RESIDENT	287916.99	4025991.45	0.008071	DieselExhPM	3.39E-06	4YrCancerDerived_InhSoilDermMMilk
64	ALL	RESIDENT	287895.27	4025950.09	0.007935	DieselExhPM	3.33E-06	4YrCancerDerived_InhSoilDermMMilk
94	ALL	RESIDENT	287815.65	4025859.09	0.007923	DieselExhPM	3.33E-06	4YrCancerDerived_InhSoilDermMMilk
80	ALL	RESIDENT	287751.54	4025810.49	0.007920	DieselExhPM	3.33E-06	4YrCancerDerived_InhSoilDermMMilk
59	ALL	RESIDENT	287857.01	4025899.42	0.007902	DieselExhPM	3.32E-06	4YrCancerDerived_InhSoilDermMMilk
104	ALL	RESIDENT	288008.12	4026049.68	0.007781	DieselExhPM	3.27E-06	4YrCancerDerived_InhSoilDermMMilk
81	ALL	RESIDENT	287771.18	4025808.42	0.007694	DieselExhPM	3.23E-06	4YrCancerDerived_InhSoilDermMMilk
93	ALL	RESIDENT	287834.26	4025857.03	0.007667	DieselExhPM	3.22E-06	4YrCancerDerived_InhSoilDermMMilk
82	ALL	RESIDENT	287790.83	4025811.53	0.007543	DieselExhPM	3.17E-06	4YrCancerDerived_InhSoilDermMMilk
63	ALL	RESIDENT	287921.12	4025948.02	0.007534	DieselExhPM	3.16E-06	4YrCancerDerived_InhSoilDermMMilk
60	ALL	RESIDENT	287881.83	4025891.15	0.007475	DieselExhPM	3.14E-06	4YrCancerDerived_InhSoilDermMMilk
105	ALL	RESIDENT	288031.47	4026048.88	0.007459	DieselExhPM	3.13E-06	4YrCancerDerived_InhSoilDermMMilk
116	ALL	RESIDENT	287966.25	4025994.93	0.007372	DieselExhPM	3.10E-06	4YrCancerDerived_InhSoilDermMMilk
92	ALL	RESIDENT	287860.11	4025854.96	0.007337	DieselExhPM	3.08E-06	4YrCancerDerived_InhSoilDermMMilk
83	ALL	RESIDENT	287816.68	4025806.36	0.007219	DieselExhPM	3.03E-06	4YrCancerDerived_InhSoilDermMMilk
61	ALL	RESIDENT	287904.58	4025893.22	0.007212	DieselExhPM	3.03E-06	4YrCancerDerived_InhSoilDermMMilk
91	ALL	RESIDENT	287878.73	4025854.96	0.007126	DieselExhPM	2.99E-06	4YrCancerDerived_InhSoilDermMMilk
117	ALL	RESIDENT	287984.77	4025994.93	0.007121	DieselExhPM	2.99E-06	4YrCancerDerived_InhSoilDermMMilk
84	ALL	RESIDENT	287838.4	4025812.56	0.007081	DieselExhPM	2.97E-06	4YrCancerDerived_InhSoilDermMMilk
106	ALL	RESIDENT	288051.6	4026043.24	0.007054	DieselExhPM	2.96E-06	4YrCancerDerived_InhSoilDermMMilk
62	ALL	RESIDENT	287923.19	4025893.22	0.006989	DieselExhPM	2.93E-06	4YrCancerDerived_InhSoilDermMMilk
135	ALL	RESIDENT	287966.25	4025949.04	0.006944	DieselExhPM	2.92E-06	4YrCancerDerived_InhSoilDermMMilk
90	ALL	RESIDENT	287899.41	4025852.89	0.006878	DieselExhPM	2.89E-06	4YrCancerDerived_InhSoilDermMMilk
118	ALL	RESIDENT	288008.92	4025997.35	0.006839	DieselExhPM	2.87E-06	4YrCancerDerived_InhSoilDermMMilk
85	ALL	RESIDENT	287862.18	4025809.46	0.006817	DieselExhPM	2.86E-06	4YrCancerDerived_InhSoilDermMMilk
107	ALL	RESIDENT	288078.16	4026044.05	0.006786	DieselExhPM	2.85E-06	4YrCancerDerived_InhSoilDermMMilk
136	ALL	RESIDENT	287985.57	4025949.04	0.006708	DieselExhPM	2.82E-06	4YrCancerDerived_InhSoilDermMMilk
89	ALL	RESIDENT	287921.12	4025852.89	0.006650	DieselExhPM	2.79E-06	4YrCancerDerived_InhSoilDermMMilk
86	ALL	RESIDENT	287879.76	4025805.32	0.006610	DieselExhPM	2.78E-06	4YrCancerDerived_InhSoilDermMMilk
119	ALL	RESIDENT	288028.25	4025996.54	0.006599	DieselExhPM	2.77E-06	4YrCancerDerived_InhSoilDermMMilk
108	ALL	RESIDENT	288092.66	4026042.44	0.006594	DieselExhPM	2.77E-06	4YrCancerDerived_InhSoilDermMMilk
109	ALL	RESIDENT	288110.37	4026045.66	0.006511	DieselExhPM	2.73E-06	4YrCancerDerived_InhSoilDermMMilk
137	ALL	RESIDENT	288009.73	4025949.85	0.006436	DieselExhPM	2.70E-06	4YrCancerDerived_InhSoilDermMMilk

Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	1.12E-05	11.213	0.005340

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/13/2023 10:08:35 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\CONUM\hra\ConUnmitHRAInput.hra

*HARP - HRACalc v22118 9/13/2023 10:08:35 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\CONUM\hra\ConUnmitHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLABBREV	RISK_SUM	SCENARIO
87	ALL	RESIDENT	287901.48	4025805.32	0.006414	DieselExhPM	2.69E-06	4YrCancerDerived_InhSoilDermMMilk
120	ALL	RESIDENT	288051.6	4025995.74	0.006330	DieselExhPM	2.66E-06	4YrCancerDerived_InhSoilDermMMilk
88	ALL	RESIDENT	287920.09	4025805.32	0.006249	DieselExhPM	2.62E-06	4YrCancerDerived_InhSoilDermMMilk
138	ALL	RESIDENT	288027.44	4025946.63	0.006221	DieselExhPM	2.61E-06	4YrCancerDerived_InhSoilDermMMilk
110	ALL	RESIDENT	288137.74	4026043.24	0.006193	DieselExhPM	2.60E-06	4YrCancerDerived_InhSoilDermMMilk
111	ALL	RESIDENT	288154.65	4026046.46	0.006141	DieselExhPM	2.58E-06	4YrCancerDerived_InhSoilDermMMilk
121	ALL	RESIDENT	288073.33	4025998.96	0.006131	DieselExhPM	2.57E-06	4YrCancerDerived_InhSoilDermMMilk
139	ALL	RESIDENT	288052.4	4025945.82	0.005961	DieselExhPM	2.50E-06	4YrCancerDerived_InhSoilDermMMilk
122	ALL	RESIDENT	288091.85	4025998.15	0.005939	DieselExhPM	2.49E-06	4YrCancerDerived_InhSoilDermMMilk
112	ALL	RESIDENT	288177.19	4026042.44	0.005841	DieselExhPM	2.45E-06	4YrCancerDerived_InhSoilDermMMilk
140	ALL	RESIDENT	288074.14	4025947.43	0.005761	DieselExhPM	2.42E-06	4YrCancerDerived_InhSoilDermMMilk
123	ALL	RESIDENT	288113.59	4025997.35	0.005727	DieselExhPM	2.40E-06	4YrCancerDerived_InhSoilDermMMilk
141	ALL	RESIDENT	288097.49	4025945.82	0.005539	DieselExhPM	2.33E-06	4YrCancerDerived_InhSoilDermMMilk
113	ALL	RESIDENT	288223.09	4026042.44	0.005493	DieselExhPM	2.31E-06	4YrCancerDerived_InhSoilDermMMilk
142	ALL	RESIDENT	288117.62	4025949.85	0.005386	DieselExhPM	2.26E-06	4YrCancerDerived_InhSoilDermMMilk
124	ALL	RESIDENT	288153.04	4025997.35	0.005384	DieselExhPM	2.26E-06	4YrCancerDerived_InhSoilDermMMilk
114	ALL	RESIDENT	288264.15	4026046.46	0.005317	DieselExhPM	2.23E-06	4YrCancerDerived_InhSoilDermMMilk
125	ALL	RESIDENT	288178	4025999.76	0.005203	DieselExhPM	2.19E-06	4YrCancerDerived_InhSoilDermMMilk
126	ALL	RESIDENT	288195.71	4025997.35	0.005049	DieselExhPM	2.12E-06	4YrCancerDerived_InhSoilDermMMilk
115	ALL	RESIDENT	288294.74	4026041.63	0.004943	DieselExhPM	2.08E-06	4YrCancerDerived_InhSoilDermMMilk
143	ALL	RESIDENT	288175.58	4025950.65	0.004932	DieselExhPM	2.07E-06	4YrCancerDerived_InhSoilDermMMilk
127	ALL	RESIDENT	288231.14	4025999.76	0.004812	DieselExhPM	2.02E-06	4YrCancerDerived_InhSoilDermMMilk
147	ALL	RESIDENT	288200.54	4025946.63	0.004736	DieselExhPM	1.99E-06	4YrCancerDerived_InhSoilDermMMilk
128	ALL	RESIDENT	288248.05	4025998.96	0.004688	DieselExhPM	1.97E-06	4YrCancerDerived_InhSoilDermMMilk
148	ALL	RESIDENT	288219.06	4025924.08	0.004530	DieselExhPM	1.90E-06	4YrCancerDerived_InhSoilDermMMilk
144	ALL	RESIDENT	288252.88	4025973.2	0.004500	DieselExhPM	1.89E-06	4YrCancerDerived_InhSoilDermMMilk
129	ALL	RESIDENT	288299.57	4026015.87	0.004485	DieselExhPM	1.88E-06	4YrCancerDerived_InhSoilDermMMilk
145	ALL	RESIDENT	288255.29	4025953.87	0.004403	DieselExhPM	1.85E-06	4YrCancerDerived_InhSoilDermMMilk
146	ALL	RESIDENT	288252.07	4025929.72	0.004340	DieselExhPM	1.82E-06	4YrCancerDerived_InhSoilDermMMilk
130	ALL	RESIDENT	288305.21	4025994.13	0.004273	DieselExhPM	1.79E-06	4YrCancerDerived_InhSoilDermMMilk
131	ALL	RESIDENT	288303.6	4025971.58	0.004172	DieselExhPM	1.75E-06	4YrCancerDerived_InhSoilDermMMilk
132	ALL	RESIDENT	288301.18	4025949.04	0.004107	DieselExhPM	1.72E-06	4YrCancerDerived_InhSoilDermMMilk
133	ALL	RESIDENT	288298.77	4025928.11	0.004061	DieselExhPM	1.71E-06	4YrCancerDerived_InhSoilDermMMilk
134	ALL	RESIDENT	288297.96	4025908.79	0.004018	DieselExhPM	1.69E-06	4YrCancerDerived_InhSoilDermMMilk

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Worst-Case Construction—DPM)

Estimation of Annual Onsite Construction Emissions (Project Site)—DPM (Exhaust PM10)

			Total
Start of Construction	3/14/2024		
End of Construction	9/2/2026		
Number of Days	902		902
Number of Hours	21,648		21,648

Size of the construction area source (entire site):	**1,151,073**	**sq-meters**
	284	**acres**

	Unmitigated On-site DPM (tons)	
Total Unmitigated DPM (On-site)	2.21E+00	tons

Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2
1 g/s used as the unit emission in AERMOD - converted to g/s/m2 in AERMOD

Average Emission (Emissions Summary for HARP2 Inputs)

Tons/Construction Period	2.210
Pounds/Construction Period	4420
Pounds/Day	4.900E+00
Pounds/Hour	2.042E-01
Pounds/Year	1789
Years	2.5

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Worst-Case Construction—DPM)

Estimation of Annual Offsite Construction DPM Emissions (Project Site)

Start of Construction	3/14/2024
End of Construction	9/2/2026
Number of Days	902
Number of Hours	21,648
Years	2.5

	tons
Total DPM - Reasonable	0.11
Total DPM - worst case	0.11

Average Emission (Emissions Summary for HARP2 Inputs)	4-year Reasonable Pounds/year	2.5 year worst case pound/year
Road Segment 1 (Off1)	4.66E+00	7.45E+00
Road Segment 2 (Off2)	4.66E+00	7.45E+00

HARP Project Summary Report 9/14/2023 9:10:03 PM

PROJECT INFORMATION
HARP Version: 22118
Project Name: ConUM_WC
Project Output Directory: F:\Jobs\41150039\HARP\ConUM_WC
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:3
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
Onsite	0	0	9901	DieselExhPM	1	1789	0	1
Off1	0	0	9901	DieselExhPM	1	7.45	0	1
Off2	0	0	9901	DieselExhPM	1	7.45	0	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH22013
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
9901	DieselExhPM	1.1			5		

Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Worst Case Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	1.63E-05	16.323	0.01

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/14/2023 9:01:34 PM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\ConUM_WC\hra\ConUnmitWCHRAInput.hra

*HARP - HRACalc v22118 9/14/2023 9:01:34 PM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\ConUM_WC\hra\ConUnmitWCHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLABBREV	RISK_SUM	SCENARIO
1	ALL	RESIDENT	287571.61	4026059.7	0.04515	DieselExhPM	1.63E-05	2.5YrCancerDerived_InhSoilDermMMilk
2	ALL	RESIDENT	287591.26	4026057.63	0.04091	DieselExhPM	1.48E-05	2.5YrCancerDerived_InhSoilDermMMilk
3	ALL	RESIDENT	287608.83	4026059.7	0.03840	DieselExhPM	1.39E-05	2.5YrCancerDerived_InhSoilDermMMilk
4	ALL	RESIDENT	287627.45	4026057.63	0.03522	DieselExhPM	1.27E-05	2.5YrCancerDerived_InhSoilDermMMilk
5	ALL	RESIDENT	287645.03	4026058.67	0.03308	DieselExhPM	1.20E-05	2.5YrCancerDerived_InhSoilDermMMilk
6	ALL	RESIDENT	287668.81	4026057.63	0.03024	DieselExhPM	1.09E-05	2.5YrCancerDerived_InhSoilDermMMilk
7	ALL	RESIDENT	287685.36	4026045.23	0.02732	DieselExhPM	9.88E-06	2.5YrCancerDerived_InhSoilDermMMilk
8	ALL	RESIDENT	287707.07	4026046.26	0.02563	DieselExhPM	9.27E-06	2.5YrCancerDerived_InhSoilDermMMilk
9	ALL	RESIDENT	287727.75	4026047.29	0.02419	DieselExhPM	8.75E-06	2.5YrCancerDerived_InhSoilDermMMilk
10	ALL	RESIDENT	287768.08	4026043.16	0.02136	DieselExhPM	7.72E-06	2.5YrCancerDerived_InhSoilDermMMilk
11	ALL	RESIDENT	287785.66	4026043.16	0.02041	DieselExhPM	7.38E-06	2.5YrCancerDerived_InhSoilDermMMilk
12	ALL	RESIDENT	287812.55	4026043.16	0.01908	DieselExhPM	6.90E-06	2.5YrCancerDerived_InhSoilDermMMilk
13	ALL	RESIDENT	287832.19	4026044.19	0.01826	DieselExhPM	6.60E-06	2.5YrCancerDerived_InhSoilDermMMilk
14	ALL	RESIDENT	287878.73	4026049.36	0.01673	DieselExhPM	6.05E-06	2.5YrCancerDerived_InhSoilDermMMilk
15	ALL	RESIDENT	287895.27	4026054.53	0.01647	DieselExhPM	5.96E-06	2.5YrCancerDerived_InhSoilDermMMilk
16	ALL	RESIDENT	287914.92	4026048.33	0.01546	DieselExhPM	5.59E-06	2.5YrCancerDerived_InhSoilDermMMilk
17	ALL	RESIDENT	287571.61	4026021.44	0.03537	DieselExhPM	1.28E-05	2.5YrCancerDerived_InhSoilDermMMilk
18	ALL	RESIDENT	287572.64	4025999.73	0.03143	DieselExhPM	1.14E-05	2.5YrCancerDerived_InhSoilDermMMilk
19	ALL	RESIDENT	287570.57	4025981.11	0.02884	DieselExhPM	1.04E-05	2.5YrCancerDerived_InhSoilDermMMilk
20	ALL	RESIDENT	287569.54	4025962.5	0.02660	DieselExhPM	9.62E-06	2.5YrCancerDerived_InhSoilDermMMilk
21	ALL	RESIDENT	287566.44	4025939.75	0.02433	DieselExhPM	8.80E-06	2.5YrCancerDerived_InhSoilDermMMilk
22	ALL	RESIDENT	287601.6	4026020.41	0.03241	DieselExhPM	1.17E-05	2.5YrCancerDerived_InhSoilDermMMilk
23	ALL	RESIDENT	287622.28	4026023.51	0.03087	DieselExhPM	1.12E-05	2.5YrCancerDerived_InhSoilDermMMilk
24	ALL	RESIDENT	287639.86	4026023.51	0.02923	DieselExhPM	1.06E-05	2.5YrCancerDerived_InhSoilDermMMilk
25	ALL	RESIDENT	287659.5	4026025.58	0.02772	DieselExhPM	1.00E-05	2.5YrCancerDerived_InhSoilDermMMilk
26	ALL	RESIDENT	287607.8	4025997.66	0.02881	DieselExhPM	1.04E-05	2.5YrCancerDerived_InhSoilDermMMilk
27	ALL	RESIDENT	287604.7	4025982.15	0.02721	DieselExhPM	9.84E-06	2.5YrCancerDerived_InhSoilDermMMilk
28	ALL	RESIDENT	287632.62	4025979.05	0.02531	DieselExhPM	9.15E-06	2.5YrCancerDerived_InhSoilDermMMilk
29	ALL	RESIDENT	287653.3	4025981.11	0.02430	DieselExhPM	8.79E-06	2.5YrCancerDerived_InhSoilDermMMilk
30	ALL	RESIDENT	287626.41	4025946.99	0.02291	DieselExhPM	8.28E-06	2.5YrCancerDerived_InhSoilDermMMilk
31	ALL	RESIDENT	287661.57	4025945.96	0.02139	DieselExhPM	7.74E-06	2.5YrCancerDerived_InhSoilDermMMilk
32	ALL	RESIDENT	287685.36	4025990.42	0.02311	DieselExhPM	8.36E-06	2.5YrCancerDerived_InhSoilDermMMilk
33	ALL	RESIDENT	287702.93	4025987.32	0.02193	DieselExhPM	7.93E-06	2.5YrCancerDerived_InhSoilDermMMilk
34	ALL	RESIDENT	287725.68	4025989.39	0.02085	DieselExhPM	7.54E-06	2.5YrCancerDerived_InhSoilDermMMilk
35	ALL	RESIDENT	287746.37	4025988.35	0.01978	DieselExhPM	7.15E-06	2.5YrCancerDerived_InhSoilDermMMilk
36	ALL	RESIDENT	287763.94	4025985.25	0.01884	DieselExhPM	6.81E-06	2.5YrCancerDerived_InhSoilDermMMilk
37	ALL	RESIDENT	287772.22	4025953.19	0.01731	DieselExhPM	6.26E-06	2.5YrCancerDerived_InhSoilDermMMilk
38	ALL	RESIDENT	287726.72	4025951.13	0.01898	DieselExhPM	6.86E-06	2.5YrCancerDerived_InhSoilDermMMilk
39	ALL	RESIDENT	287703.97	4025953.19	0.02002	DieselExhPM	7.24E-06	2.5YrCancerDerived_InhSoilDermMMilk
40	ALL	RESIDENT	287683.29	4025955.26	0.02103	DieselExhPM	7.60E-06	2.5YrCancerDerived_InhSoilDermMMilk
41	ALL	RESIDENT	287575.74	4025898.39	0.02073	DieselExhPM	7.50E-06	2.5YrCancerDerived_InhSoilDermMMilk
42	ALL	RESIDENT	287578.85	4025875.64	0.01920	DieselExhPM	6.94E-06	2.5YrCancerDerived_InhSoilDermMMilk
43	ALL	RESIDENT	287578.85	4025851.86	0.01784	DieselExhPM	6.45E-06	2.5YrCancerDerived_InhSoilDermMMilk
44	ALL	RESIDENT	287577.81	4025828.07	0.01666	DieselExhPM	6.02E-06	2.5YrCancerDerived_InhSoilDermMMilk
45	ALL	RESIDENT	287584.02	4025805.32	0.01559	DieselExhPM	5.64E-06	2.5YrCancerDerived_InhSoilDermMMilk
46	ALL	RESIDENT	287622.28	4025810.49	0.01537	DieselExhPM	5.56E-06	2.5YrCancerDerived_InhSoilDermMMilk
47	ALL	RESIDENT	287627.45	4025850.82	0.01704	DieselExhPM	6.16E-06	2.5YrCancerDerived_InhSoilDermMMilk
48	ALL	RESIDENT	287626.41	4025872.54	0.01814	DieselExhPM	6.56E-06	2.5YrCancerDerived_InhSoilDermMMilk
49	ALL	RESIDENT	287635.72	4025897.35	0.01929	DieselExhPM	6.97E-06	2.5YrCancerDerived_InhSoilDermMMilk
50	ALL	RESIDENT	287664.67	4025897.35	0.01851	DieselExhPM	6.69E-06	2.5YrCancerDerived_InhSoilDermMMilk
51	ALL	RESIDENT	287689.49	4025901.49	0.01801	DieselExhPM	6.51E-06	2.5YrCancerDerived_InhSoilDermMMilk
52	ALL	RESIDENT	287709.14	4025893.22	0.01709	DieselExhPM	6.18E-06	2.5YrCancerDerived_InhSoilDermMMilk
53	ALL	RESIDENT	287727.75	4025897.35	0.01673	DieselExhPM	6.05E-06	2.5YrCancerDerived_InhSoilDermMMilk
54	ALL	RESIDENT	287752.57	4025892.18	0.01585	DieselExhPM	5.73E-06	2.5YrCancerDerived_InhSoilDermMMilk
55	ALL	RESIDENT	287772.22	4025896.32	0.01545	DieselExhPM	5.59E-06	2.5YrCancerDerived_InhSoilDermMMilk
56	ALL	RESIDENT	287798.07	4025899.42	0.01485	DieselExhPM	5.37E-06	2.5YrCancerDerived_InhSoilDermMMilk
57	ALL	RESIDENT	287817.72	4025897.35	0.01429	DieselExhPM	5.17E-06	2.5YrCancerDerived_InhSoilDermMMilk
58	ALL	RESIDENT	287837.36	4025899.42	0.01385	DieselExhPM	5.01E-06	2.5YrCancerDerived_InhSoilDermMMilk
59	ALL	RESIDENT	287857.01	4025899.42	0.01338	DieselExhPM	4.84E-06	2.5YrCancerDerived_InhSoilDermMMilk

Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Worst Case Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	1.63E-05	16.323	0.01

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/14/2023 9:01:34 PM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\ConUM_WC\hra\ConUnmitWCHRAInput.hra

60	ALL	RESIDENT	287881.83	4025891.15	0.01266	DieselExhPM	4.58E-06	2.5YrCancerDerived_InhSoilDermMMilk
61	ALL	RESIDENT	287904.58	4025893.22	0.01221	DieselExhPM	4.41E-06	2.5YrCancerDerived_InhSoilDermMMilk
62	ALL	RESIDENT	287923.19	4025893.22	0.01183	DieselExhPM	4.28E-06	2.5YrCancerDerived_InhSoilDermMMilk
63	ALL	RESIDENT	287921.12	4025948.02	0.01275	DieselExhPM	4.61E-06	2.5YrCancerDerived_InhSoilDermMMilk
64	ALL	RESIDENT	287895.27	4025950.09	0.01343	DieselExhPM	4.85E-06	2.5YrCancerDerived_InhSoilDermMMilk
65	ALL	RESIDENT	287878.73	4025943.89	0.01374	DieselExhPM	4.97E-06	2.5YrCancerDerived_InhSoilDermMMilk
66	ALL	RESIDENT	287855.98	4025942.85	0.01434	DieselExhPM	5.18E-06	2.5YrCancerDerived_InhSoilDermMMilk
67	ALL	RESIDENT	287837.36	4025945.96	0.01495	DieselExhPM	5.40E-06	2.5YrCancerDerived_InhSoilDermMMilk
68	ALL	RESIDENT	287810.48	4025948.02	0.01584	DieselExhPM	5.73E-06	2.5YrCancerDerived_InhSoilDermMMilk
69	ALL	RESIDENT	287812.55	4025992.49	0.01708	DieselExhPM	6.18E-06	2.5YrCancerDerived_InhSoilDermMMilk
70	ALL	RESIDENT	287833.23	4025991.45	0.01628	DieselExhPM	5.89E-06	2.5YrCancerDerived_InhSoilDermMMilk
71	ALL	RESIDENT	287852.87	4025990.42	0.01557	DieselExhPM	5.63E-06	2.5YrCancerDerived_InhSoilDermMMilk
72	ALL	RESIDENT	287876.66	4025988.35	0.01475	DieselExhPM	5.33E-06	2.5YrCancerDerived_InhSoilDermMMilk
73	ALL	RESIDENT	287891.13	4025986.28	0.01427	DieselExhPM	5.16E-06	2.5YrCancerDerived_InhSoilDermMMilk
74	ALL	RESIDENT	287916.99	4025991.45	0.01364	DieselExhPM	4.93E-06	2.5YrCancerDerived_InhSoilDermMMilk
75	ALL	RESIDENT	287643.99	4025808.42	0.01501	DieselExhPM	5.43E-06	2.5YrCancerDerived_InhSoilDermMMilk
76	ALL	RESIDENT	287664.67	4025808.42	0.01473	DieselExhPM	5.32E-06	2.5YrCancerDerived_InhSoilDermMMilk
77	ALL	RESIDENT	287692.59	4025809.46	0.01434	DieselExhPM	5.19E-06	2.5YrCancerDerived_InhSoilDermMMilk
78	ALL	RESIDENT	287709.14	4025814.63	0.01425	DieselExhPM	5.15E-06	2.5YrCancerDerived_InhSoilDermMMilk
79	ALL	RESIDENT	287729.82	4025812.56	0.01384	DieselExhPM	5.00E-06	2.5YrCancerDerived_InhSoilDermMMilk
80	ALL	RESIDENT	287751.54	4025810.49	0.01342	DieselExhPM	4.85E-06	2.5YrCancerDerived_InhSoilDermMMilk
81	ALL	RESIDENT	287771.18	4025808.42	0.01303	DieselExhPM	4.71E-06	2.5YrCancerDerived_InhSoilDermMMilk
82	ALL	RESIDENT	287790.83	4025811.53	0.01278	DieselExhPM	4.62E-06	2.5YrCancerDerived_InhSoilDermMMilk
83	ALL	RESIDENT	287816.68	4025806.36	0.01223	DieselExhPM	4.42E-06	2.5YrCancerDerived_InhSoilDermMMilk
84	ALL	RESIDENT	287838.4	4025812.56	0.01199	DieselExhPM	4.34E-06	2.5YrCancerDerived_InhSoilDermMMilk
85	ALL	RESIDENT	287862.18	4025809.46	0.01155	DieselExhPM	4.17E-06	2.5YrCancerDerived_InhSoilDermMMilk
86	ALL	RESIDENT	287879.76	4025805.32	0.01120	DieselExhPM	4.05E-06	2.5YrCancerDerived_InhSoilDermMMilk
87	ALL	RESIDENT	287901.48	4025805.32	0.01086	DieselExhPM	3.93E-06	2.5YrCancerDerived_InhSoilDermMMilk
88	ALL	RESIDENT	287920.09	4025805.32	0.01058	DieselExhPM	3.83E-06	2.5YrCancerDerived_InhSoilDermMMilk
89	ALL	RESIDENT	287921.12	4025852.89	0.01126	DieselExhPM	4.07E-06	2.5YrCancerDerived_InhSoilDermMMilk
90	ALL	RESIDENT	287899.41	4025852.89	0.01165	DieselExhPM	4.21E-06	2.5YrCancerDerived_InhSoilDermMMilk
91	ALL	RESIDENT	287878.73	4025854.96	0.01207	DieselExhPM	4.36E-06	2.5YrCancerDerived_InhSoilDermMMilk
92	ALL	RESIDENT	287860.11	4025854.96	0.01243	DieselExhPM	4.49E-06	2.5YrCancerDerived_InhSoilDermMMilk
93	ALL	RESIDENT	287834.26	4025857.03	0.01298	DieselExhPM	4.69E-06	2.5YrCancerDerived_InhSoilDermMMilk
94	ALL	RESIDENT	287815.65	4025859.09	0.01342	DieselExhPM	4.85E-06	2.5YrCancerDerived_InhSoilDermMMilk
95	ALL	RESIDENT	287793.93	4025857.03	0.01383	DieselExhPM	5.00E-06	2.5YrCancerDerived_InhSoilDermMMilk
96	ALL	RESIDENT	287773.25	4025863.23	0.01445	DieselExhPM	5.23E-06	2.5YrCancerDerived_InhSoilDermMMilk
97	ALL	RESIDENT	287751.54	4025864.26	0.01498	DieselExhPM	5.42E-06	2.5YrCancerDerived_InhSoilDermMMilk
98	ALL	RESIDENT	287730.85	4025862.2	0.01539	DieselExhPM	5.56E-06	2.5YrCancerDerived_InhSoilDermMMilk
99	ALL	RESIDENT	287712.24	4025862.2	0.01581	DieselExhPM	5.72E-06	2.5YrCancerDerived_InhSoilDermMMilk
100	ALL	RESIDENT	287687.42	4025858.06	0.01620	DieselExhPM	5.86E-06	2.5YrCancerDerived_InhSoilDermMMilk
101	ALL	RESIDENT	287665.71	4025859.09	0.01669	DieselExhPM	6.04E-06	2.5YrCancerDerived_InhSoilDermMMilk
102	ALL	RESIDENT	287962.23	4026054.51	0.01447	DieselExhPM	5.23E-06	2.5YrCancerDerived_InhSoilDermMMilk
103	ALL	RESIDENT	287985.57	4026052.9	0.01378	DieselExhPM	4.98E-06	2.5YrCancerDerived_InhSoilDermMMilk
104	ALL	RESIDENT	288008.12	4026049.68	0.01307	DieselExhPM	4.73E-06	2.5YrCancerDerived_InhSoilDermMMilk
105	ALL	RESIDENT	288031.47	4026048.88	0.01253	DieselExhPM	4.53E-06	2.5YrCancerDerived_InhSoilDermMMilk
106	ALL	RESIDENT	288051.6	4026043.24	0.01185	DieselExhPM	4.29E-06	2.5YrCancerDerived_InhSoilDermMMilk
107	ALL	RESIDENT	288078.16	4026044.05	0.01140	DieselExhPM	4.12E-06	2.5YrCancerDerived_InhSoilDermMMilk
108	ALL	RESIDENT	288092.66	4026042.44	0.01108	DieselExhPM	4.00E-06	2.5YrCancerDerived_InhSoilDermMMilk
109	ALL	RESIDENT	288110.37	4026045.66	0.01093	DieselExhPM	3.95E-06	2.5YrCancerDerived_InhSoilDermMMilk
110	ALL	RESIDENT	288137.74	4026043.24	0.01039	DieselExhPM	3.76E-06	2.5YrCancerDerived_InhSoilDermMMilk
111	ALL	RESIDENT	288154.65	4026046.46	0.01030	DieselExhPM	3.72E-06	2.5YrCancerDerived_InhSoilDermMMilk
112	ALL	RESIDENT	288177.19	4026042.44	0.00980	DieselExhPM	3.54E-06	2.5YrCancerDerived_InhSoilDermMMilk
113	ALL	RESIDENT	288223.09	4026042.44	0.00921	DieselExhPM	3.33E-06	2.5YrCancerDerived_InhSoilDermMMilk
114	ALL	RESIDENT	288264.15	4026046.46	0.00890	DieselExhPM	3.22E-06	2.5YrCancerDerived_InhSoilDermMMilk
115	ALL	RESIDENT	288294.74	4026041.63	0.00828	DieselExhPM	2.99E-06	2.5YrCancerDerived_InhSoilDermMMilk
116	ALL	RESIDENT	287966.25	4025994.93	0.01245	DieselExhPM	4.50E-06	2.5YrCancerDerived_InhSoilDermMMilk
117	ALL	RESIDENT	287984.77	4025994.93	0.01203	DieselExhPM	4.35E-06	2.5YrCancerDerived_InhSoilDermMMilk
118	ALL	RESIDENT	288008.92	4025997.35	0.01155	DieselExhPM	4.17E-06	2.5YrCancerDerived_InhSoilDermMMilk
119	ALL	RESIDENT	288028.25	4025996.54	0.01114	DieselExhPM	4.03E-06	2.5YrCancerDerived_InhSoilDermMMilk
120	ALL	RESIDENT	288051.6	4025995.74	0.01069	DieselExhPM	3.86E-06	2.5YrCancerDerived_InhSoilDermMMilk
121	ALL	RESIDENT	288073.33	4025998.96	0.01035	DieselExhPM	3.74E-06	2.5YrCancerDerived_InhSoilDermMMilk

Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Unmitigated Worst Case Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	1.63E-05	16.323	0.01

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/14/2023 9:01:34 PM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\ConUM_WC\hra\ConUnmitWCHRAInput.hra

122	ALL	RESIDENT	288091.85	4025998.15	0.01002	DieselExhPM	3.62E-06	2.5YrCancerDerived_InhSoilDermMMilk
123	ALL	RESIDENT	288113.59	4025997.35	0.00966	DieselExhPM	3.49E-06	2.5YrCancerDerived_InhSoilDermMMilk
124	ALL	RESIDENT	288153.04	4025997.35	0.00908	DieselExhPM	3.28E-06	2.5YrCancerDerived_InhSoilDermMMilk
125	ALL	RESIDENT	288178	4025999.76	0.00877	DieselExhPM	3.17E-06	2.5YrCancerDerived_InhSoilDermMMilk
126	ALL	RESIDENT	288195.71	4025997.35	0.00851	DieselExhPM	3.08E-06	2.5YrCancerDerived_InhSoilDermMMilk
127	ALL	RESIDENT	288231.14	4025999.76	0.00811	DieselExhPM	2.93E-06	2.5YrCancerDerived_InhSoilDermMMilk
128	ALL	RESIDENT	288248.05	4025998.96	0.00790	DieselExhPM	2.86E-06	2.5YrCancerDerived_InhSoilDermMMilk
129	ALL	RESIDENT	288299.57	4026015.87	0.00755	DieselExhPM	2.73E-06	2.5YrCancerDerived_InhSoilDermMMilk
130	ALL	RESIDENT	288305.21	4025994.13	0.00720	DieselExhPM	2.60E-06	2.5YrCancerDerived_InhSoilDermMMilk
131	ALL	RESIDENT	288303.6	4025971.58	0.00704	DieselExhPM	2.55E-06	2.5YrCancerDerived_InhSoilDermMMilk
132	ALL	RESIDENT	288301.18	4025949.04	0.00694	DieselExhPM	2.51E-06	2.5YrCancerDerived_InhSoilDermMMilk
133	ALL	RESIDENT	288298.77	4025928.11	0.00686	DieselExhPM	2.48E-06	2.5YrCancerDerived_InhSoilDermMMilk
134	ALL	RESIDENT	288297.96	4025908.79	0.00679	DieselExhPM	2.46E-06	2.5YrCancerDerived_InhSoilDermMMilk
135	ALL	RESIDENT	287966.25	4025949.04	0.01174	DieselExhPM	4.25E-06	2.5YrCancerDerived_InhSoilDermMMilk
136	ALL	RESIDENT	287985.57	4025949.04	0.01135	DieselExhPM	4.10E-06	2.5YrCancerDerived_InhSoilDermMMilk
137	ALL	RESIDENT	288009.73	4025949.85	0.01088	DieselExhPM	3.93E-06	2.5YrCancerDerived_InhSoilDermMMilk
138	ALL	RESIDENT	288027.44	4025946.63	0.01052	DieselExhPM	3.80E-06	2.5YrCancerDerived_InhSoilDermMMilk
139	ALL	RESIDENT	288052.4	4025945.82	0.01008	DieselExhPM	3.64E-06	2.5YrCancerDerived_InhSoilDermMMilk
140	ALL	RESIDENT	288074.14	4025947.43	0.00974	DieselExhPM	3.52E-06	2.5YrCancerDerived_InhSoilDermMMilk
141	ALL	RESIDENT	288097.49	4025945.82	0.00936	DieselExhPM	3.39E-06	2.5YrCancerDerived_InhSoilDermMMilk
142	ALL	RESIDENT	288117.62	4025949.85	0.00910	DieselExhPM	3.29E-06	2.5YrCancerDerived_InhSoilDermMMilk
143	ALL	RESIDENT	288175.58	4025950.65	0.00833	DieselExhPM	3.01E-06	2.5YrCancerDerived_InhSoilDermMMilk
144	ALL	RESIDENT	288252.88	4025973.2	0.00760	DieselExhPM	2.75E-06	2.5YrCancerDerived_InhSoilDermMMilk
145	ALL	RESIDENT	288255.29	4025953.87	0.00744	DieselExhPM	2.69E-06	2.5YrCancerDerived_InhSoilDermMMilk
146	ALL	RESIDENT	288252.07	4025929.72	0.00734	DieselExhPM	2.65E-06	2.5YrCancerDerived_InhSoilDermMMilk
147	ALL	RESIDENT	288200.54	4025946.63	0.00800	DieselExhPM	2.89E-06	2.5YrCancerDerived_InhSoilDermMMilk
148	ALL	RESIDENT	288219.06	4025924.08	0.00766	DieselExhPM	2.77E-06	2.5YrCancerDerived_InhSoilDermMMilk

City of Visalia–Shirk & and Riggin Industrial Park Project (Tier 4 Construction—DPM)

Estimation of Annual Onsite Construction Emissions (Project Site)—DPM (Exhaust PM10)

Start of Construction	3/14/2024	
End of Construction	3/12/2028	**Total**
Number of Days	1,459	1459
Number of Hours	35,016	35,016

Size of the construction area source (entire site):	**1,151,073.0**	**sq-meters**
	284	**acres**

Year	On-site Construction Activity	Tier 4 On-site DPM (tons)
2024	On-site DPM (PM10 exhaust)	0.11741
2025	On-site DPM (PM10 exhaust)	0.05281
2026	On-site DPM (PM10 exhaust)	0.03923
2027	On-site DPM (PM10 exhaust)	0.05149
2028	On-site DPM (PM10 exhaust)	0.01180

Total Unmitigated DPM (On-site)	2.727E-01	tons

Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2
1 g/s used as the unit emission in AERMOD - converted to g/s/m2 in AERMOD

Average Emission (Emissions Summary for HARP2 Inputs)	2.476E+05	grams
	1.965E-03	grams/sec
	1.707E-09	grams/m2-sec

Tons/Construction Period	2.727E-01
Pounds/Construction Period	5.455E+02
Pounds/Day	3.739E-01
Pounds/Hour	1.558E-02
Pounds/Year	136.5
Years	4.0

City of Visalia–Shirk & and Riggin Industrial Park Project (Tier 4 Construction—DPM)

Estimation of Annual Offsite Construction DPM Emissions (Project Site) - No Change Compared to Unmitigated Scenario

Start of Construction		3/14/2024				
End of Construction		3/12/2028				**Total**
Number of Days		1,459				1459
Number of Hours		35,016				35,016
	2024	2025	2026	2027	2028	
Construction Trip Type	Offsite	Offsite	Offsite	Offsite	Offsite	
Total	0.03648	0.02169	0.02020	0.02346	0.00558	
	(tons)	**(tons)**	**(tons)**	**(tons)**		
Total DPM	3.648E-02	0.000E+00	7.093E-02	1.074E-01		
Average Emissions						
Grams	3.312E+04	0.000E+00	6.440E+04			
Grams/sec	2.628E-04	0.000E+00	5.109E-04			
Default Distance	20	7.3	10.8	Vehicle Travel Distance Assumed in CalEEMod		
Vehicle Travel Distances in the Construction HRA (miles)						
Road Segment 1	0.50	0.50	0.50	miles		
Road Segment 2	0.50	0.50	0.50	miles		
Additional Localized	0.25	0.00	0.00	miles		
Trip Distribution (percent)						
Off-site Road Segment 1	50.0%	50.0%	50.0%	Off-site Road Segment 1		
Off-site Road Segment 2	50.0%	50.0%	50.0%	Off-site Road Segment 2		
Additional Localized	100.0%	100.0%	100.0%	(0.25 mi to account for expected increases from idle/speed)		
Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total**		
Road Segment 1	4.9269E-06	0.0000E+00	1.1827E-05	1.6754E-05	Off-site Road Segment 1	
Road Segment 2	4.9269E-06	0.0000E+00	1.1827E-05	1.6754E-05	Off-site Road Segment 2	

Average Emission (Emissions Summary for HARP2 Inputs)

	Grams/sec	Pounds/Hour	Pounds/Day	Pounds/year	Tons/year	Max Pounds/Hour
Road Segment 1 (Off1)	1.6754E-05	1.3297E-04	3.1912E-03	4.6560E+00	2.3280E-03	3.9890E-04
Road Segment 2 (Off2)	1.6754E-05	1.3297E-04	3.1912E-03	4.6560E+00	2.3280E-03	3.9890E-04

HARP Project Summary Report 9/13/2023 11:35:24 AM

PROJECT INFORMATION
HARP Version: 22118
Project Name: CONMIT
Project Output Directory: F:\Jobs\41150039\HARP\CONMIT
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:3
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
Onsite	0	0	9901	DieselExhPM	1	136.5	0	1
Off1	0	0	9901	DieselExhPM	1	4.66	0	1
Off2	0	0	9901	DieselExhPM	1	4.66	0	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH22013
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
9901	DieselExhPM	1.1			5		

Health Risk Summary - Mitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Tier 4 Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	1.95E-06	1.947	0.002

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/13/2023 11:12:57 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\CONMIT\hra\ConMitHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLABBREV	RISK_SUM	SCENARIO
1	ALL	RESIDENT	287571.61	4026059.7	0.004635578	DieselExhPM	1.95E-06	4YrCancerDerived_Inh
2	ALL	RESIDENT	287591.26	4026057.63	0.004261907	DieselExhPM	1.79E-06	4YrCancerDerived_Inh
3	ALL	RESIDENT	287608.83	4026059.7	0.004141014	DieselExhPM	1.74E-06	4YrCancerDerived_Inh
4	ALL	RESIDENT	287627.45	4026057.63	0.003845504	DieselExhPM	1.61E-06	4YrCancerDerived_Inh
5	ALL	RESIDENT	287645.03	4026058.67	0.003724045	DieselExhPM	1.56E-06	4YrCancerDerived_Inh
6	ALL	RESIDENT	287668.81	4026057.63	0.00348807	DieselExhPM	1.46E-06	4YrCancerDerived_Inh
7	ALL	RESIDENT	287685.36	4026045.23	0.002976516	DieselExhPM	1.25E-06	4YrCancerDerived_Inh
8	ALL	RESIDENT	287707.07	4026046.26	0.002874409	DieselExhPM	1.21E-06	4YrCancerDerived_Inh
9	ALL	RESIDENT	287727.75	4026047.29	0.002792394	DieselExhPM	1.17E-06	4YrCancerDerived_Inh
10	ALL	RESIDENT	287768.08	4026043.16	0.002509315	DieselExhPM	1.05E-06	4YrCancerDerived_Inh
11	ALL	RESIDENT	287785.66	4026043.16	0.002441764	DieselExhPM	1.03E-06	4YrCancerDerived_Inh
12	ALL	RESIDENT	287812.55	4026043.16	0.002348883	DieselExhPM	9.86E-07	4YrCancerDerived_Inh
13	ALL	RESIDENT	287832.19	4026044.19	0.002312134	DieselExhPM	9.71E-07	4YrCancerDerived_Inh
14	ALL	RESIDENT	287878.73	4026049.36	0.002325162	DieselExhPM	9.76E-07	4YrCancerDerived_Inh
15	ALL	RESIDENT	287895.27	4026054.53	0.002456695	DieselExhPM	1.03E-06	4YrCancerDerived_Inh
16	ALL	RESIDENT	287914.92	4026048.33	0.002217548	DieselExhPM	9.31E-07	4YrCancerDerived_Inh
17	ALL	RESIDENT	287571.61	4026021.44	0.003266533	DieselExhPM	1.37E-06	4YrCancerDerived_Inh
18	ALL	RESIDENT	287572.64	4025999.73	0.002823911	DieselExhPM	1.19E-06	4YrCancerDerived_Inh
19	ALL	RESIDENT	287570.57	4025981.11	0.002547496	DieselExhPM	1.07E-06	4YrCancerDerived_Inh
20	ALL	RESIDENT	287569.54	4025962.5	0.002320394	DieselExhPM	9.74E-07	4YrCancerDerived_Inh
21	ALL	RESIDENT	287566.44	4025939.75	0.002097701	DieselExhPM	8.81E-07	4YrCancerDerived_Inh
22	ALL	RESIDENT	287601.6	4026020.41	0.003036296	DieselExhPM	1.28E-06	4YrCancerDerived_Inh
23	ALL	RESIDENT	287622.28	4026023.51	0.002948732	DieselExhPM	1.24E-06	4YrCancerDerived_Inh
24	ALL	RESIDENT	287639.86	4026023.51	0.002826624	DieselExhPM	1.19E-06	4YrCancerDerived_Inh
25	ALL	RESIDENT	287659.5	4026025.58	0.002733895	DieselExhPM	1.15E-06	4YrCancerDerived_Inh
26	ALL	RESIDENT	287607.8	4025997.66	0.002617015	DieselExhPM	1.10E-06	4YrCancerDerived_Inh
27	ALL	RESIDENT	287604.7	4025982.15	0.002428718	DieselExhPM	1.02E-06	4YrCancerDerived_Inh
28	ALL	RESIDENT	287632.62	4025979.05	0.002274607	DieselExhPM	9.55E-07	4YrCancerDerived_Inh
29	ALL	RESIDENT	287653.3	4025981.11	0.00220574	DieselExhPM	9.26E-07	4YrCancerDerived_Inh
30	ALL	RESIDENT	287626.41	4025946.99	0.002005283	DieselExhPM	8.42E-07	4YrCancerDerived_Inh
31	ALL	RESIDENT	287661.57	4025945.96	0.001888571	DieselExhPM	7.93E-07	4YrCancerDerived_Inh
32	ALL	RESIDENT	287685.36	4025990.42	0.002153872	DieselExhPM	9.04E-07	4YrCancerDerived_Inh
33	ALL	RESIDENT	287702.93	4025987.32	0.002051902	DieselExhPM	8.62E-07	4YrCancerDerived_Inh
34	ALL	RESIDENT	287725.68	4025989.39	0.001979358	DieselExhPM	8.31E-07	4YrCancerDerived_Inh
35	ALL	RESIDENT	287746.37	4025988.35	0.001894595	DieselExhPM	7.96E-07	4YrCancerDerived_Inh
36	ALL	RESIDENT	287763.94	4025985.25	0.001811322	DieselExhPM	7.61E-07	4YrCancerDerived_Inh
37	ALL	RESIDENT	287772.22	4025953.19	0.001596179	DieselExhPM	6.70E-07	4YrCancerDerived_Inh
38	ALL	RESIDENT	287726.72	4025951.13	0.001717247	DieselExhPM	7.21E-07	4YrCancerDerived_Inh
39	ALL	RESIDENT	287703.97	4025953.19	0.001800461	DieselExhPM	7.56E-07	4YrCancerDerived_Inh
40	ALL	RESIDENT	287683.29	4025955.26	0.001881826	DieselExhPM	7.90E-07	4YrCancerDerived_Inh
41	ALL	RESIDENT	287575.74	4025898.39	0.00176415	DieselExhPM	7.41E-07	4YrCancerDerived_Inh
42	ALL	RESIDENT	287578.85	4025875.64	0.001624148	DieselExhPM	6.82E-07	4YrCancerDerived_Inh
43	ALL	RESIDENT	287578.85	4025851.86	0.00150217	DieselExhPM	6.31E-07	4YrCancerDerived_Inh
44	ALL	RESIDENT	287577.81	4025828.07	0.001396851	DieselExhPM	5.87E-07	4YrCancerDerived_Inh
45	ALL	RESIDENT	287584.02	4025805.32	0.001302557	DieselExhPM	5.47E-07	4YrCancerDerived_Inh
46	ALL	RESIDENT	287622.28	4025810.49	0.00128896	DieselExhPM	5.41E-07	4YrCancerDerived_Inh
47	ALL	RESIDENT	287627.45	4025850.82	0.001440781	DieselExhPM	6.05E-07	4YrCancerDerived_Inh
48	ALL	RESIDENT	287626.41	4025872.54	0.001541636	DieselExhPM	6.47E-07	4YrCancerDerived_Inh
49	ALL	RESIDENT	287635.72	4025897.35	0.001653642	DieselExhPM	6.94E-07	4YrCancerDerived_Inh
50	ALL	RESIDENT	287664.67	4025897.35	0.001594832	DieselExhPM	6.70E-07	4YrCancerDerived_Inh
51	ALL	RESIDENT	287689.49	4025901.49	0.001561255	DieselExhPM	6.56E-07	4YrCancerDerived_Inh
52	ALL	RESIDENT	287709.14	4025893.22	0.001481872	DieselExhPM	6.22E-07	4YrCancerDerived_Inh
53	ALL	RESIDENT	287727.75	4025897.35	0.001459179	DieselExhPM	6.13E-07	4YrCancerDerived_Inh
54	ALL	RESIDENT	287752.57	4025892.18	0.001387169	DieselExhPM	5.83E-07	4YrCancerDerived_Inh
55	ALL	RESIDENT	287772.22	4025896.32	0.001361396	DieselExhPM	5.72E-07	4YrCancerDerived_Inh
56	ALL	RESIDENT	287798.07	4025899.42	0.001319228	DieselExhPM	5.54E-07	4YrCancerDerived_Inh
57	ALL	RESIDENT	287817.72	4025897.35	0.001274167	DieselExhPM	5.35E-07	4YrCancerDerived_Inh

Health Risk Summary - Mitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Tier 4 Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	1.95E-06	1.947	0.002

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/13/2023 11:12:57 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\CONMIT\hra\ConMitHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLABBREV	RISK_SUM	SCENARIO
58	ALL	RESIDENT	287837.36	4025899.42	0.001243122	DieselExhPM	5.22E-07	4YrCancerDerived_Inh
59	ALL	RESIDENT	287857.01	4025899.42	0.001207184	DieselExhPM	5.07E-07	4YrCancerDerived_Inh
60	ALL	RESIDENT	287881.83	4025891.15	0.00114279	DieselExhPM	4.80E-07	4YrCancerDerived_Inh
61	ALL	RESIDENT	287904.58	4025893.22	0.001111056	DieselExhPM	4.67E-07	4YrCancerDerived_Inh
62	ALL	RESIDENT	287923.19	4025893.22	0.001082127	DieselExhPM	4.54E-07	4YrCancerDerived_Inh
63	ALL	RESIDENT	287921.12	4025948.02	0.001239108	DieselExhPM	5.20E-07	4YrCancerDerived_Inh
64	ALL	RESIDENT	287895.27	4025950.09	0.001295186	DieselExhPM	5.44E-07	4YrCancerDerived_Inh
65	ALL	RESIDENT	287878.73	4025943.89	0.001305099	DieselExhPM	5.48E-07	4YrCancerDerived_Inh
66	ALL	RESIDENT	287855.98	4025942.85	0.001348189	DieselExhPM	5.66E-07	4YrCancerDerived_Inh
67	ALL	RESIDENT	287837.36	4025945.96	0.001400935	DieselExhPM	5.88E-07	4YrCancerDerived_Inh
68	ALL	RESIDENT	287810.48	4025948.02	0.001472609	DieselExhPM	6.18E-07	4YrCancerDerived_Inh
69	ALL	RESIDENT	287812.55	4025992.49	0.001711814	DieselExhPM	7.19E-07	4YrCancerDerived_Inh
70	ALL	RESIDENT	287833.23	4025991.45	0.001646804	DieselExhPM	6.92E-07	4YrCancerDerived_Inh
71	ALL	RESIDENT	287852.87	4025990.42	0.001588875	DieselExhPM	6.67E-07	4YrCancerDerived_Inh
72	ALL	RESIDENT	287876.66	4025988.35	0.001518426	DieselExhPM	6.38E-07	4YrCancerDerived_Inh
73	ALL	RESIDENT	287891.13	4025986.28	0.001473311	DieselExhPM	6.19E-07	4YrCancerDerived_Inh
74	ALL	RESIDENT	287916.99	4025991.45	0.001450651	DieselExhPM	6.09E-07	4YrCancerDerived_Inh
75	ALL	RESIDENT	287643.99	4025808.42	0.001260513	DieselExhPM	5.29E-07	4YrCancerDerived_Inh
76	ALL	RESIDENT	287664.67	4025808.42	0.001238718	DieselExhPM	5.20E-07	4YrCancerDerived_Inh
77	ALL	RESIDENT	287692.59	4025809.46	0.001210209	DieselExhPM	5.08E-07	4YrCancerDerived_Inh
78	ALL	RESIDENT	287709.14	4025814.63	0.001205537	DieselExhPM	5.06E-07	4YrCancerDerived_Inh
79	ALL	RESIDENT	287729.82	4025812.56	0.001173507	DieselExhPM	4.93E-07	4YrCancerDerived_Inh
80	ALL	RESIDENT	287751.54	4025810.49	0.001140207	DieselExhPM	4.79E-07	4YrCancerDerived_Inh
81	ALL	RESIDENT	287771.18	4025808.42	0.001109891	DieselExhPM	4.66E-07	4YrCancerDerived_Inh
82	ALL	RESIDENT	287790.83	4025811.53	0.001091914	DieselExhPM	4.59E-07	4YrCancerDerived_Inh
83	ALL	RESIDENT	287816.68	4025806.36	0.001047468	DieselExhPM	4.40E-07	4YrCancerDerived_Inh
84	ALL	RESIDENT	287838.4	4025812.56	0.001032753	DieselExhPM	4.34E-07	4YrCancerDerived_Inh
85	ALL	RESIDENT	287862.18	4025809.46	0.000996896	DieselExhPM	4.19E-07	4YrCancerDerived_Inh
86	ALL	RESIDENT	287879.76	4025805.32	0.00096808	DieselExhPM	4.07E-07	4YrCancerDerived_Inh
87	ALL	RESIDENT	287901.48	4025805.32	0.000942554	DieselExhPM	3.96E-07	4YrCancerDerived_Inh
88	ALL	RESIDENT	287920.09	4025805.32	0.000921177	DieselExhPM	3.87E-07	4YrCancerDerived_Inh
89	ALL	RESIDENT	287921.12	4025852.89	0.001001792	DieselExhPM	4.21E-07	4YrCancerDerived_Inh
90	ALL	RESIDENT	287899.41	4025852.89	0.001031407	DieselExhPM	4.33E-07	4YrCancerDerived_Inh
91	ALL	RESIDENT	287878.73	4025854.96	0.001064954	DieselExhPM	4.47E-07	4YrCancerDerived_Inh
92	ALL	RESIDENT	287860.11	4025854.96	0.001092351	DieselExhPM	4.59E-07	4YrCancerDerived_Inh
93	ALL	RESIDENT	287834.26	4025857.03	0.001136533	DieselExhPM	4.77E-07	4YrCancerDerived_Inh
94	ALL	RESIDENT	287815.65	4025859.09	0.001171222	DieselExhPM	4.92E-07	4YrCancerDerived_Inh
95	ALL	RESIDENT	287793.93	4025857.03	0.001201154	DieselExhPM	5.04E-07	4YrCancerDerived_Inh
96	ALL	RESIDENT	287773.25	4025863.23	0.001253434	DieselExhPM	5.26E-07	4YrCancerDerived_Inh
97	ALL	RESIDENT	287751.54	4025864.26	0.001294288	DieselExhPM	5.44E-07	4YrCancerDerived_Inh
98	ALL	RESIDENT	287730.85	4025862.2	0.001323512	DieselExhPM	5.56E-07	4YrCancerDerived_Inh
99	ALL	RESIDENT	287712.24	4025862.2	0.001355571	DieselExhPM	5.69E-07	4YrCancerDerived_Inh
100	ALL	RESIDENT	287687.42	4025858.06	0.001381708	DieselExhPM	5.80E-07	4YrCancerDerived_Inh
101	ALL	RESIDENT	287665.71	4025859.09	0.001420334	DieselExhPM	5.96E-07	4YrCancerDerived_Inh
102	ALL	RESIDENT	287962.23	4026054.51	0.002337833	DieselExhPM	9.82E-07	4YrCancerDerived_Inh
103	ALL	RESIDENT	287985.57	4026052.9	0.00224454	DieselExhPM	9.43E-07	4YrCancerDerived_Inh
104	ALL	RESIDENT	288008.12	4026049.68	0.002106267	DieselExhPM	8.85E-07	4YrCancerDerived_Inh
105	ALL	RESIDENT	288031.47	4026048.88	0.002052334	DieselExhPM	8.62E-07	4YrCancerDerived_Inh
106	ALL	RESIDENT	288051.6	4026043.24	0.001871474	DieselExhPM	7.86E-07	4YrCancerDerived_Inh
107	ALL	RESIDENT	288078.16	4026044.05	0.001862434	DieselExhPM	7.82E-07	4YrCancerDerived_Inh
108	ALL	RESIDENT	288092.66	4026042.44	0.001805716	DieselExhPM	7.58E-07	4YrCancerDerived_Inh
109	ALL	RESIDENT	288110.37	4026045.66	0.001873876	DieselExhPM	7.87E-07	4YrCancerDerived_Inh
110	ALL	RESIDENT	288137.74	4026043.24	0.001782474	DieselExhPM	7.49E-07	4YrCancerDerived_Inh
111	ALL	RESIDENT	288154.65	4026046.46	0.001858551	DieselExhPM	7.80E-07	4YrCancerDerived_Inh
112	ALL	RESIDENT	288177.19	4026042.44	0.001725896	DieselExhPM	7.25E-07	4YrCancerDerived_Inh
113	ALL	RESIDENT	288223.09	4026042.44	0.001682122	DieselExhPM	7.06E-07	4YrCancerDerived_Inh
114	ALL	RESIDENT	288264.15	4026046.46	0.00174709	DieselExhPM	7.34E-07	4YrCancerDerived_Inh

Health Risk Summary - Mitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Tier 4 Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	1.95E-06	1.947	0.002

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/13/2023 11:12:57 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\CONMIT\hra\ConMitHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLABBREV	RISK_SUM	SCENARIO
115	ALL	RESIDENT	288294.74	4026041.63	0.001538319	DieselExhPM	6.46E-07	4YrCancerDerived_Inh
116	ALL	RESIDENT	287966.25	4025994.93	0.001380274	DieselExhPM	5.80E-07	4YrCancerDerived_Inh
117	ALL	RESIDENT	287984.77	4025994.93	0.001348757	DieselExhPM	5.66E-07	4YrCancerDerived_Inh
118	ALL	RESIDENT	288008.92	4025997.35	0.001326505	DieselExhPM	5.57E-07	4YrCancerDerived_Inh
119	ALL	RESIDENT	288028.25	4025996.54	0.001291967	DieselExhPM	5.43E-07	4YrCancerDerived_Inh
120	ALL	RESIDENT	288051.6	4025995.74	0.001253618	DieselExhPM	5.26E-07	4YrCancerDerived_Inh
121	ALL	RESIDENT	288073.33	4025998.96	0.001246854	DieselExhPM	5.24E-07	4YrCancerDerived_Inh
122	ALL	RESIDENT	288091.85	4025998.15	0.001217727	DieselExhPM	5.11E-07	4YrCancerDerived_Inh
123	ALL	RESIDENT	288113.59	4025997.35	0.001185867	DieselExhPM	4.98E-07	4YrCancerDerived_Inh
124	ALL	RESIDENT	288153.04	4025997.35	0.00114093	DieselExhPM	4.79E-07	4YrCancerDerived_Inh
125	ALL	RESIDENT	288178	4025999.76	0.001130806	DieselExhPM	4.75E-07	4YrCancerDerived_Inh
126	ALL	RESIDENT	288195.71	4025997.35	0.001094635	DieselExhPM	4.60E-07	4YrCancerDerived_Inh
127	ALL	RESIDENT	288231.14	4025999.76	0.001072727	DieselExhPM	4.50E-07	4YrCancerDerived_Inh
128	ALL	RESIDENT	288248.05	4025998.96	0.001047185	DieselExhPM	4.40E-07	4YrCancerDerived_Inh
129	ALL	RESIDENT	288299.57	4026015.87	0.001109775	DieselExhPM	4.66E-07	4YrCancerDerived_Inh
130	ALL	RESIDENT	288305.21	4025994.13	0.000932702	DieselExhPM	3.92E-07	4YrCancerDerived_Inh
131	ALL	RESIDENT	288303.6	4025971.58	0.000833492	DieselExhPM	3.50E-07	4YrCancerDerived_Inh
132	ALL	RESIDENT	288301.18	4025949.04	0.000769266	DieselExhPM	3.23E-07	4YrCancerDerived_Inh
133	ALL	RESIDENT	288298.77	4025928.11	0.00072677	DieselExhPM	3.05E-07	4YrCancerDerived_Inh
134	ALL	RESIDENT	288297.96	4025908.79	0.000695166	DieselExhPM	2.92E-07	4YrCancerDerived_Inh
135	ALL	RESIDENT	287966.25	4025949.04	0.001165548	DieselExhPM	4.89E-07	4YrCancerDerived_Inh
136	ALL	RESIDENT	287985.57	4025949.04	0.001135239	DieselExhPM	4.77E-07	4YrCancerDerived_Inh
137	ALL	RESIDENT	288009.73	4025949.85	0.001101986	DieselExhPM	4.63E-07	4YrCancerDerived_Inh
138	ALL	RESIDENT	288027.44	4025946.63	0.001066904	DieselExhPM	4.48E-07	4YrCancerDerived_Inh
139	ALL	RESIDENT	288052.4	4025945.82	0.001031266	DieselExhPM	4.33E-07	4YrCancerDerived_Inh
140	ALL	RESIDENT	288074.14	4025947.43	0.001008718	DieselExhPM	4.24E-07	4YrCancerDerived_Inh
141	ALL	RESIDENT	288097.49	4025945.82	0.000975992	DieselExhPM	4.10E-07	4YrCancerDerived_Inh
142	ALL	RESIDENT	288117.62	4025949.85	0.000964897	DieselExhPM	4.05E-07	4YrCancerDerived_Inh
143	ALL	RESIDENT	288175.58	4025950.65	0.000904992	DieselExhPM	3.80E-07	4YrCancerDerived_Inh
144	ALL	RESIDENT	288252.88	4025973.2	0.00090294	DieselExhPM	3.79E-07	4YrCancerDerived_Inh
145	ALL	RESIDENT	288255.29	4025953.87	0.000833305	DieselExhPM	3.50E-07	4YrCancerDerived_Inh
146	ALL	RESIDENT	288252.07	4025929.72	0.00077664	DieselExhPM	3.26E-07	4YrCancerDerived_Inh
147	ALL	RESIDENT	288200.54	4025946.63	0.000868046	DieselExhPM	3.65E-07	4YrCancerDerived_Inh
148	ALL	RESIDENT	288219.06	4025924.08	0.000796445	DieselExhPM	3.34E-07	4YrCancerDerived_Inh

City of Visalia–Shirk & and Riggin Industrial Park Project (Tier 4 Construction Worst Case—DPM)

Estimation of Annual Onsite Construction Emissions (Project Site)—DPM (Exhaust PM10)

Start of Construction	3/14/2024	
End of Construction	9/2/2026	
Number of Days	902	
Number of Hours	21,648	
Size of the construction area source (entire site):	**1,151,073.0**	**sq-meters**
	284	**acres**
	Tier 4 On-site DPM	
Total Unmitigated DPM (On-site)	0.27	tons

Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2
1 g/s used as the unit emission in AERMOD - converted to g/s/m2 in AERMOD

Average Emission (Emissions Summary for HARP2 Inputs)

Tons/Construction Period	2.710E-01
Pounds/Construction Period	5.420E+02
Pounds/Day	6.009E-01
Pounds/Hour	2.504E-02
Pounds/Year	219.3
Years	2.5

City of Visalia–Shirk and Riggin Industrial Park Project (Tier 4 Construction Worst Case—DPM)

Estimation of Annual Offsite Construction DPM Emissions (Project Site)

Start of Construction	3/14/2024
End of Construction	9/2/2026
Number of Days	902
Number of Hours	21,648
Years	2.5

	tons
Total DPM - Reasonable	0.11
Total DPM - worst case	0.11

Average Emission (Emissions Summary for HARP2 Inputs)	4-year Reasonable Pounds/year	2.5 year worst case pound/year
Road Segment 1 (Off1)	4.66E+00	7.45E+00
Road Segment 2 (Off2)	4.66E+00	7.45E+00

HARP Project Summary Report 9/14/2023 9:09:25 PM

PROJECT INFORMATION
HARP Version: 22118
Project Name: ConMit_WC
Project Output Directory: F:\Jobs\41150039\HARP\ConMit_WC
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:3
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
Onsite	0	0	9901	DieselExhPM	1	219.3	0	1
Off1	0	0	9901	DieselExhPM	1	7.45	0	1
Off2	0	0	9901	DieselExhPM	1	7.45	0	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH22013
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
9901	DieselExhPM	1.1			5		

Health Risk Summary - Mitigated Construction (Summary of HARP2 Results)

City of Visalia–Shirk and Riggin Industrial Park Project (Tier 4 Construction—DPM)

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic
Maximum Risk	2.69E-06	2.689	0.001

	X	Y
MIR UTM	287571.61	4026059.70
Receptor Type	RESIDENT	
Receptor #	1	

*HARP - HRACalc v22118 9/14/2023 9:07:28 PM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\ConMit_WC\hra\ConMitWorstCaseHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLABBREV	RISK_SUM	SCENARIO
1	ALL	RESIDENT	287571.61	4026059.7	0.007436799	DieselExhPM	2.69E-06	2.5YrCancerDerived_Inh
2	ALL	RESIDENT	287591.26	4026057.63	0.006836916	DieselExhPM	2.47E-06	2.5YrCancerDerived_Inh
3	ALL	RESIDENT	287608.83	4026059.7	0.006642055	DieselExhPM	2.40E-06	2.5YrCancerDerived_Inh
4	ALL	RESIDENT	287627.45	4026057.63	0.006167766	DieselExhPM	2.23E-06	2.5YrCancerDerived_Inh
5	ALL	RESIDENT	287645.03	4026058.67	0.005972257	DieselExhPM	2.16E-06	2.5YrCancerDerived_Inh
6	ALL	RESIDENT	287668.81	4026057.63	0.005593314	DieselExhPM	2.02E-06	2.5YrCancerDerived_Inh
7	ALL	RESIDENT	287685.36	4026045.23	0.004774045	DieselExhPM	1.73E-06	2.5YrCancerDerived_Inh
8	ALL	RESIDENT	287707.07	4026046.26	0.004609758	DieselExhPM	1.67E-06	2.5YrCancerDerived_Inh
9	ALL	RESIDENT	287727.75	4026047.29	0.004477744	DieselExhPM	1.62E-06	2.5YrCancerDerived_Inh
10	ALL	RESIDENT	287768.08	4026043.16	0.004023557	DieselExhPM	1.45E-06	2.5YrCancerDerived_Inh
11	ALL	RESIDENT	287785.66	4026043.16	0.003914981	DieselExhPM	1.42E-06	2.5YrCancerDerived_Inh
12	ALL	RESIDENT	287812.55	4026043.16	0.003765686	DieselExhPM	1.36E-06	2.5YrCancerDerived_Inh
13	ALL	RESIDENT	287832.19	4026044.19	0.003706415	DieselExhPM	1.34E-06	2.5YrCancerDerived_Inh
14	ALL	RESIDENT	287878.73	4026049.36	0.003726174	DieselExhPM	1.35E-06	2.5YrCancerDerived_Inh
15	ALL	RESIDENT	287895.27	4026054.53	0.003936139	DieselExhPM	1.42E-06	2.5YrCancerDerived_Inh
16	ALL	RESIDENT	287914.92	4026048.33	0.003553381	DieselExhPM	1.28E-06	2.5YrCancerDerived_Inh
17	ALL	RESIDENT	287571.61	4026021.44	0.005242893	DieselExhPM	1.90E-06	2.5YrCancerDerived_Inh
18	ALL	RESIDENT	287572.64	4025999.73	0.004533053	DieselExhPM	1.64E-06	2.5YrCancerDerived_Inh
19	ALL	RESIDENT	287570.57	4025981.11	0.004089674	DieselExhPM	1.48E-06	2.5YrCancerDerived_Inh
20	ALL	RESIDENT	287569.54	4025962.5	0.003725316	DieselExhPM	1.35E-06	2.5YrCancerDerived_Inh
21	ALL	RESIDENT	287566.44	4025939.75	0.003367986	DieselExhPM	1.22E-06	2.5YrCancerDerived_Inh
22	ALL	RESIDENT	287601.6	4026020.41	0.004873035	DieselExhPM	1.76E-06	2.5YrCancerDerived_Inh
23	ALL	RESIDENT	287622.28	4026023.51	0.004732085	DieselExhPM	1.71E-06	2.5YrCancerDerived_Inh
24	ALL	RESIDENT	287639.86	4026023.51	0.004535883	DieselExhPM	1.64E-06	2.5YrCancerDerived_Inh
25	ALL	RESIDENT	287659.5	4026025.58	0.004386701	DieselExhPM	1.59E-06	2.5YrCancerDerived_Inh
26	ALL	RESIDENT	287607.8	4025997.66	0.004200723	DieselExhPM	1.52E-06	2.5YrCancerDerived_Inh
27	ALL	RESIDENT	287604.7	4025982.15	0.003898796	DieselExhPM	1.41E-06	2.5YrCancerDerived_Inh
28	ALL	RESIDENT	287632.62	4025979.05	0.003651286	DieselExhPM	1.32E-06	2.5YrCancerDerived_Inh
29	ALL	RESIDENT	287653.3	4025981.11	0.00354057	DieselExhPM	1.28E-06	2.5YrCancerDerived_Inh
30	ALL	RESIDENT	287626.41	4025946.99	0.003219366	DieselExhPM	1.16E-06	2.5YrCancerDerived_Inh
31	ALL	RESIDENT	287661.57	4025945.96	0.003031867	DieselExhPM	1.10E-06	2.5YrCancerDerived_Inh
32	ALL	RESIDENT	287685.36	4025990.42	0.00345689	DieselExhPM	1.25E-06	2.5YrCancerDerived_Inh
33	ALL	RESIDENT	287702.93	4025987.32	0.003293173	DieselExhPM	1.19E-06	2.5YrCancerDerived_Inh
34	ALL	RESIDENT	287725.68	4025989.39	0.003176535	DieselExhPM	1.15E-06	2.5YrCancerDerived_Inh
35	ALL	RESIDENT	287746.37	4025988.35	0.003040382	DieselExhPM	1.10E-06	2.5YrCancerDerived_Inh
36	ALL	RESIDENT	287763.94	4025985.25	0.002906703	DieselExhPM	1.05E-06	2.5YrCancerDerived_Inh
37	ALL	RESIDENT	287772.22	4025953.19	0.002561942	DieselExhPM	9.26E-07	2.5YrCancerDerived_Inh
38	ALL	RESIDENT	287726.72	4025951.13	0.002756502	DieselExhPM	9.97E-07	2.5YrCancerDerived_Inh
39	ALL	RESIDENT	287703.97	4025953.19	0.002890157	DieselExhPM	1.04E-06	2.5YrCancerDerived_Inh
40	ALL	RESIDENT	287683.29	4025955.26	0.00302084	DieselExhPM	1.09E-06	2.5YrCancerDerived_Inh
41	ALL	RESIDENT	287575.74	4025898.39	0.002832637	DieselExhPM	1.02E-06	2.5YrCancerDerived_Inh
42	ALL	RESIDENT	287578.85	4025875.64	0.002607914	DieselExhPM	9.43E-07	2.5YrCancerDerived_Inh
43	ALL	RESIDENT	287578.85	4025851.86	0.002412113	DieselExhPM	8.72E-07	2.5YrCancerDerived_Inh
44	ALL	RESIDENT	287577.81	4025828.07	0.002243047	DieselExhPM	8.11E-07	2.5YrCancerDerived_Inh
45	ALL	RESIDENT	287584.02	4025805.32	0.002091662	DieselExhPM	7.56E-07	2.5YrCancerDerived_Inh
46	ALL	RESIDENT	287622.28	4025810.49	0.002069793	DieselExhPM	7.48E-07	2.5YrCancerDerived_Inh
47	ALL	RESIDENT	287627.45	4025850.82	0.002313489	DieselExhPM	8.36E-07	2.5YrCancerDerived_Inh
48	ALL	RESIDENT	287626.41	4025872.54	0.002475371	DieselExhPM	8.95E-07	2.5YrCancerDerived_Inh
49	ALL	RESIDENT	287635.72	4025897.35	0.002655098	DieselExhPM	9.60E-07	2.5YrCancerDerived_Inh
50	ALL	RESIDENT	287664.67	4025897.35	0.002560612	DieselExhPM	9.26E-07	2.5YrCancerDerived_Inh
51	ALL	RESIDENT	287689.49	4025901.49	0.002506621	DieselExhPM	9.06E-07	2.5YrCancerDerived_Inh
52	ALL	RESIDENT	287709.14	4025893.22	0.002379166	DieselExhPM	8.60E-07	2.5YrCancerDerived_Inh
53	ALL	RESIDENT	287727.75	4025897.35	0.002342665	DieselExhPM	8.47E-07	2.5YrCancerDerived_Inh
54	ALL	RESIDENT	287752.57	4025892.18	0.002227024	DieselExhPM	8.05E-07	2.5YrCancerDerived_Inh
55	ALL	RESIDENT	287772.22	4025896.32	0.002185574	DieselExhPM	7.90E-07	2.5YrCancerDerived_Inh
56	ALL	RESIDENT	287798.07	4025899.42	0.002117793	DieselExhPM	7.66E-07	2.5YrCancerDerived_Inh
57	ALL	RESIDENT	287817.72	4025897.35	0.002045419	DieselExhPM	7.40E-07	2.5YrCancerDerived_Inh

58	ALL	RESIDENT	287837.36	4025899.42	0.001995519	DieselExhPM	7.21E-07	2.5YrCancerDerived_Inh
59	ALL	RESIDENT	287857.01	4025899.42	0.00193778	DieselExhPM	7.01E-07	2.5YrCancerDerived_Inh
60	ALL	RESIDENT	287881.83	4025891.15	0.001834409	DieselExhPM	6.63E-07	2.5YrCancerDerived_Inh
61	ALL	RESIDENT	287904.58	4025893.22	0.001783405	DieselExhPM	6.45E-07	2.5YrCancerDerived_Inh
62	ALL	RESIDENT	287923.19	4025893.22	0.001736927	DieselExhPM	6.28E-07	2.5YrCancerDerived_Inh
63	ALL	RESIDENT	287921.12	4025948.02	0.00198835	DieselExhPM	7.19E-07	2.5YrCancerDerived_Inh
64	ALL	RESIDENT	287895.27	4025950.09	0.002078407	DieselExhPM	7.51E-07	2.5YrCancerDerived_Inh
65	ALL	RESIDENT	287878.73	4025943.89	0.002094458	DieselExhPM	7.57E-07	2.5YrCancerDerived_Inh
66	ALL	RESIDENT	287855.98	4025942.85	0.002163708	DieselExhPM	7.82E-07	2.5YrCancerDerived_Inh
67	ALL	RESIDENT	287837.36	4025945.96	0.002248394	DieselExhPM	8.13E-07	2.5YrCancerDerived_Inh
68	ALL	RESIDENT	287810.48	4025948.02	0.002363511	DieselExhPM	8.55E-07	2.5YrCancerDerived_Inh
69	ALL	RESIDENT	287812.55	4025992.49	0.002746523	DieselExhPM	9.93E-07	2.5YrCancerDerived_Inh
70	ALL	RESIDENT	287833.23	4025991.45	0.00264211	DieselExhPM	9.55E-07	2.5YrCancerDerived_Inh
71	ALL	RESIDENT	287852.87	4025990.42	0.002549075	DieselExhPM	9.22E-07	2.5YrCancerDerived_Inh
72	ALL	RESIDENT	287876.66	4025988.35	0.002435964	DieselExhPM	8.81E-07	2.5YrCancerDerived_Inh
73	ALL	RESIDENT	287891.13	4025986.28	0.002363556	DieselExhPM	8.55E-07	2.5YrCancerDerived_Inh
74	ALL	RESIDENT	287916.99	4025991.45	0.002326928	DieselExhPM	8.41E-07	2.5YrCancerDerived_Inh
75	ALL	RESIDENT	287643.99	4025808.42	0.002024099	DieselExhPM	7.32E-07	2.5YrCancerDerived_Inh
76	ALL	RESIDENT	287664.67	4025808.42	0.001989082	DieselExhPM	7.19E-07	2.5YrCancerDerived_Inh
77	ALL	RESIDENT	287692.59	4025809.46	0.001943274	DieselExhPM	7.03E-07	2.5YrCancerDerived_Inh
78	ALL	RESIDENT	287709.14	4025814.63	0.001935744	DieselExhPM	7.00E-07	2.5YrCancerDerived_Inh
79	ALL	RESIDENT	287729.82	4025812.56	0.001884295	DieselExhPM	6.81E-07	2.5YrCancerDerived_Inh
80	ALL	RESIDENT	287751.54	4025810.49	0.001830803	DieselExhPM	6.62E-07	2.5YrCancerDerived_Inh
81	ALL	RESIDENT	287771.18	4025808.42	0.001782108	DieselExhPM	6.44E-07	2.5YrCancerDerived_Inh
82	ALL	RESIDENT	287790.83	4025811.53	0.001753212	DieselExhPM	6.34E-07	2.5YrCancerDerived_Inh
83	ALL	RESIDENT	287816.68	4025806.36	0.001681828	DieselExhPM	6.08E-07	2.5YrCancerDerived_Inh
84	ALL	RESIDENT	287838.4	4025812.56	0.001658159	DieselExhPM	6.00E-07	2.5YrCancerDerived_Inh
85	ALL	RESIDENT	287862.18	4025809.46	0.001600566	DieselExhPM	5.79E-07	2.5YrCancerDerived_Inh
86	ALL	RESIDENT	287879.76	4025805.32	0.001554289	DieselExhPM	5.62E-07	2.5YrCancerDerived_Inh
87	ALL	RESIDENT	287901.48	4025805.32	0.001513281	DieselExhPM	5.47E-07	2.5YrCancerDerived_Inh
88	ALL	RESIDENT	287920.09	4025805.32	0.001478937	DieselExhPM	5.35E-07	2.5YrCancerDerived_Inh
89	ALL	RESIDENT	287921.12	4025852.89	0.001608192	DieselExhPM	5.81E-07	2.5YrCancerDerived_Inh
90	ALL	RESIDENT	287899.41	4025852.89	0.001655771	DieselExhPM	5.99E-07	2.5YrCancerDerived_Inh
91	ALL	RESIDENT	287878.73	4025854.96	0.001709653	DieselExhPM	6.18E-07	2.5YrCancerDerived_Inh
92	ALL	RESIDENT	287860.11	4025854.96	0.001753669	DieselExhPM	6.34E-07	2.5YrCancerDerived_Inh
93	ALL	RESIDENT	287834.26	4025857.03	0.001824638	DieselExhPM	6.60E-07	2.5YrCancerDerived_Inh
94	ALL	RESIDENT	287815.65	4025859.09	0.001880354	DieselExhPM	6.80E-07	2.5YrCancerDerived_Inh
95	ALL	RESIDENT	287793.93	4025857.03	0.001928458	DieselExhPM	6.97E-07	2.5YrCancerDerived_Inh
96	ALL	RESIDENT	287773.25	4025863.23	0.002012408	DieselExhPM	7.28E-07	2.5YrCancerDerived_Inh
97	ALL	RESIDENT	287751.54	4025864.26	0.002078037	DieselExhPM	7.51E-07	2.5YrCancerDerived_Inh
98	ALL	RESIDENT	287730.85	4025862.2	0.002125004	DieselExhPM	7.68E-07	2.5YrCancerDerived_Inh
99	ALL	RESIDENT	287712.24	4025862.2	0.00217651	DieselExhPM	7.87E-07	2.5YrCancerDerived_Inh
100	ALL	RESIDENT	287687.42	4025858.06	0.002218532	DieselExhPM	8.02E-07	2.5YrCancerDerived_Inh
101	ALL	RESIDENT	287665.71	4025859.09	0.002280582	DieselExhPM	8.25E-07	2.5YrCancerDerived_Inh
102	ALL	RESIDENT	287962.23	4026054.51	0.003744876	DieselExhPM	1.35E-06	2.5YrCancerDerived_Inh
103	ALL	RESIDENT	287985.57	4026052.9	0.003595356	DieselExhPM	1.30E-06	2.5YrCancerDerived_Inh
104	ALL	RESIDENT	288008.12	4026049.68	0.003373961	DieselExhPM	1.22E-06	2.5YrCancerDerived_Inh
105	ALL	RESIDENT	288031.47	4026048.88	0.003287424	DieselExhPM	1.19E-06	2.5YrCancerDerived_Inh
106	ALL	RESIDENT	288051.6	4026043.24	0.002998019	DieselExhPM	1.08E-06	2.5YrCancerDerived_Inh
107	ALL	RESIDENT	288078.16	4026044.05	0.002983264	DieselExhPM	1.08E-06	2.5YrCancerDerived_Inh
108	ALL	RESIDENT	288092.66	4026042.44	0.002892429	DieselExhPM	1.05E-06	2.5YrCancerDerived_Inh
109	ALL	RESIDENT	288110.37	4026045.66	0.003001221	DieselExhPM	1.09E-06	2.5YrCancerDerived_Inh
110	ALL	RESIDENT	288137.74	4026043.24	0.002854828	DieselExhPM	1.03E-06	2.5YrCancerDerived_Inh
111	ALL	RESIDENT	288154.65	4026046.46	0.002976304	DieselExhPM	1.08E-06	2.5YrCancerDerived_Inh
112	ALL	RESIDENT	288177.19	4026042.44	0.002764032	DieselExhPM	9.99E-07	2.5YrCancerDerived_Inh
113	ALL	RESIDENT	288223.09	4026042.44	0.002693694	DieselExhPM	9.74E-07	2.5YrCancerDerived_Inh
114	ALL	RESIDENT	288264.15	4026046.46	0.002797276	DieselExhPM	1.01E-06	2.5YrCancerDerived_Inh
115	ALL	RESIDENT	288294.74	4026041.63	0.002463317	DieselExhPM	8.91E-07	2.5YrCancerDerived_Inh
116	ALL	RESIDENT	287966.25	4025994.93	0.00221368	DieselExhPM	8.00E-07	2.5YrCancerDerived_Inh
117	ALL	RESIDENT	287984.77	4025994.93	0.002163036	DieselExhPM	7.82E-07	2.5YrCancerDerived_Inh
118	ALL	RESIDENT	288008.92	4025997.35	0.002127156	DieselExhPM	7.69E-07	2.5YrCancerDerived_Inh
119	ALL	RESIDENT	288028.25	4025996.54	0.002071701	DieselExhPM	7.49E-07	2.5YrCancerDerived_Inh
120	ALL	RESIDENT	288051.6	4025995.74	0.00201012	DieselExhPM	7.27E-07	2.5YrCancerDerived_Inh
121	ALL	RESIDENT	288073.33	4025998.96	0.001999081	DieselExhPM	7.23E-07	2.5YrCancerDerived_Inh
122	ALL	RESIDENT	288091.85	4025998.15	0.001952325	DieselExhPM	7.06E-07	2.5YrCancerDerived_Inh
123	ALL	RESIDENT	288113.59	4025997.35	0.001901178	DieselExhPM	6.87E-07	2.5YrCancerDerived_Inh
124	ALL	RESIDENT	288153.04	4025997.35	0.001828988	DieselExhPM	6.61E-07	2.5YrCancerDerived_Inh
125	ALL	RESIDENT	288178	4025999.76	0.001812604	DieselExhPM	6.55E-07	2.5YrCancerDerived_Inh
126	ALL	RESIDENT	288195.71	4025997.35	0.001754637	DieselExhPM	6.34E-07	2.5YrCancerDerived_Inh
127	ALL	RESIDENT	288231.14	4025999.76	0.001719361	DieselExhPM	6.22E-07	2.5YrCancerDerived_Inh
128	ALL	RESIDENT	288248.05	4025998.96	0.001678412	DieselExhPM	6.07E-07	2.5YrCancerDerived_Inh
129	ALL	RESIDENT	288299.57	4026015.87	0.001778164	DieselExhPM	6.43E-07	2.5YrCancerDerived_Inh
130	ALL	RESIDENT	288305.21	4025994.13	0.001495034	DieselExhPM	5.41E-07	2.5YrCancerDerived_Inh

131	ALL	RESIDENT	288303.6	4025971.58	0.001336424	DieselExhPM	4.83E-07	2.5YrCancerDerived_Inh
132	ALL	RESIDENT	288301.18	4025949.04	0.001233743	DieselExhPM	4.46E-07	2.5YrCancerDerived_Inh
133	ALL	RESIDENT	288298.77	4025928.11	0.001165801	DieselExhPM	4.22E-07	2.5YrCancerDerived_Inh
134	ALL	RESIDENT	288297.96	4025908.79	0.001115261	DieselExhPM	4.03E-07	2.5YrCancerDerived_Inh
135	ALL	RESIDENT	287966.25	4025949.04	0.001870144	DieselExhPM	6.76E-07	2.5YrCancerDerived_Inh
136	ALL	RESIDENT	287985.57	4025949.04	0.001821448	DieselExhPM	6.59E-07	2.5YrCancerDerived_Inh
137	ALL	RESIDENT	288009.73	4025949.85	0.001768005	DieselExhPM	6.39E-07	2.5YrCancerDerived_Inh
138	ALL	RESIDENT	288027.44	4025946.63	0.001711709	DieselExhPM	6.19E-07	2.5YrCancerDerived_Inh
139	ALL	RESIDENT	288052.4	4025945.82	0.001654471	DieselExhPM	5.98E-07	2.5YrCancerDerived_Inh
140	ALL	RESIDENT	288074.14	4025947.43	0.001618215	DieselExhPM	5.85E-07	2.5YrCancerDerived_Inh
141	ALL	RESIDENT	288097.49	4025945.82	0.001565675	DieselExhPM	5.66E-07	2.5YrCancerDerived_Inh
142	ALL	RESIDENT	288117.62	4025949.85	0.001547771	DieselExhPM	5.60E-07	2.5YrCancerDerived_Inh
143	ALL	RESIDENT	288175.58	4025950.65	0.001451538	DieselExhPM	5.25E-07	2.5YrCancerDerived_Inh
144	ALL	RESIDENT	288252.88	4025973.2	0.001447754	DieselExhPM	5.23E-07	2.5YrCancerDerived_Inh
145	ALL	RESIDENT	288255.29	4025953.87	0.001336395	DieselExhPM	4.83E-07	2.5YrCancerDerived_Inh
146	ALL	RESIDENT	288252.07	4025929.72	0.001245798	DieselExhPM	4.50E-07	2.5YrCancerDerived_Inh
147	ALL	RESIDENT	288200.54	4025946.63	0.001392286	DieselExhPM	5.03E-07	2.5YrCancerDerived_Inh
148	ALL	RESIDENT	288219.06	4025924.08	0.001277659	DieselExhPM	4.62E-07	2.5YrCancerDerived_Inh

Control Pathway

Dispersion Options

Titles

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Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Rural

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours: ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Option not available

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Construction.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: ONSITE

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
90.88	5.00	8.69E-7	1.40	8	285937.16	4026132.67
		8.69E-7			285935.37	4026128.82
		8.69E-7			287533.33	4026099.12
		8.69E-7			287546.89	4026747.30
		8.69E-7			286859.53	4026760.17
		8.69E-7			286614.71	4026910.68
		8.69E-7			285953.38	4026923.93
		8.69E-7			285951.18	4026924.09

Line Volume Sources

Source Type: LINE VOLUME

Source: OFF1 (HAUL1)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
27.00	1.00000		286734.94	4026109.56	92.45	3.10
			287382.01	4026098.52	93.14	3.10
			287710.06	4026092.58	93.64	3.10
			288338.20	4026081.22	94.33	3.40

Source Type: LINE VOLUME

Source: OFF2

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
27.00	1.00000		286731.71	4026112.54	92.46	3.10
			285935.30	4026115.53	90.88	3.10
			285135.91	4026137.90	89.78	3.10

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF2	L0000939	286718.21	4026112.59	92.45	3.10	0.01695	27.00		12.56	3.16
	L0000940	286691.21	4026112.69	92.43	3.10	0.01695	27.00		12.56	3.16
	L0000941	286664.21	4026112.80	92.42	3.10	0.01695	27.00		12.56	3.16
	L0000942	286637.21	4026112.90	92.40	3.10	0.01695	27.00		12.56	3.16
	L0000943	286610.21	4026113.00	92.38	3.10	0.01695	27.00		12.56	3.16
	L0000944	286583.21	4026113.10	92.35	3.10	0.01695	27.00		12.56	3.16
	L0000945	286556.21	4026113.20	92.32	3.10	0.01695	27.00		12.56	3.16
	L0000946	286529.21	4026113.30	92.29	3.10	0.01695	27.00		12.56	3.16
	L0000947	286502.21	4026113.40	92.27	3.10	0.01695	27.00		12.56	3.16
	L0000948	286475.21	4026113.50	92.21	3.10	0.01695	27.00		12.56	3.16
	L0000949	286448.21	4026113.60	92.16	3.10	0.01695	27.00		12.56	3.16
	L0000950	286421.21	4026113.71	92.10	3.10	0.01695	27.00		12.56	3.16
	L0000951	286394.21	4026113.81	92.04	3.10	0.01695	27.00		12.56	3.16
	L0000952	286367.21	4026113.91	91.99	3.10	0.01695	27.00		12.56	3.16
	L0000953	286340.21	4026114.01	91.95	3.10	0.01695	27.00		12.56	3.16
	L0000954	286313.21	4026114.11	91.89	3.10	0.01695	27.00		12.56	3.16
	L0000955	286286.21	4026114.21	91.84	3.10	0.01695	27.00		12.56	3.16
	L0000956	286259.22	4026114.31	91.78	3.10	0.01695	27.00		12.56	3.16
	L0000957	286232.22	4026114.41	91.73	3.10	0.01695	27.00		12.56	3.16
	L0000958	286205.22	4026114.51	91.66	3.10	0.01695	27.00		12.56	3.16
	L0000959	286178.22	4026114.62	91.59	3.10	0.01695	27.00		12.56	3.16
	L0000960	286151.22	4026114.72	91.51	3.10	0.01695	27.00		12.56	3.16
	L0000961	286124.22	4026114.82	91.42	3.10	0.01695	27.00		12.56	3.16
	L0000962	286097.22	4026114.92	91.35	3.10	0.01695	27.00		12.56	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF2	L0000963	286070.22	4026115.02	91.26	3.10	0.01695	27.00		12.56	3.16
	L0000964	286043.22	4026115.12	91.17	3.10	0.01695	27.00		12.56	3.16
	L0000965	286016.22	4026115.22	91.09	3.10	0.01695	27.00		12.56	3.16
	L0000966	285989.22	4026115.32	91.02	3.10	0.01695	27.00		12.56	3.16
	L0000967	285962.22	4026115.42	90.94	3.10	0.01695	27.00		12.56	3.16
	L0000968	285935.22	4026115.53	90.88	3.10	0.01695	27.00		12.56	3.16
	L0000969	285908.23	4026116.28	90.83	3.10	0.01695	27.00		12.56	3.16
	L0000970	285881.24	4026117.04	90.77	3.10	0.01695	27.00		12.56	3.16
	L0000971	285854.25	4026117.79	90.73	3.10	0.01695	27.00		12.56	3.16
	L0000972	285827.26	4026118.55	90.69	3.10	0.01695	27.00		12.56	3.16
	L0000973	285800.27	4026119.30	90.67	3.10	0.01695	27.00		12.56	3.16
	L0000974	285773.28	4026120.06	90.65	3.10	0.01695	27.00		12.56	3.16
	L0000975	285746.29	4026120.81	90.63	3.10	0.01695	27.00		12.56	3.16
	L0000976	285719.30	4026121.57	90.60	3.10	0.01695	27.00		12.56	3.16
	L0000977	285692.31	4026122.33	90.58	3.10	0.01695	27.00		12.56	3.16
	L0000978	285665.32	4026123.08	90.54	3.10	0.01695	27.00		12.56	3.16
	L0000979	285638.33	4026123.84	90.52	3.10	0.01695	27.00		12.56	3.16
	L0000980	285611.34	4026124.59	90.50	3.10	0.01695	27.00		12.56	3.16
	L0000981	285584.35	4026125.35	90.48	3.10	0.01695	27.00		12.56	3.16
	L0000982	285557.37	4026126.10	90.46	3.10	0.01695	27.00		12.56	3.16
	L0000983	285530.38	4026126.86	90.45	3.10	0.01695	27.00		12.56	3.16
	L0000984	285503.39	4026127.61	90.44	3.10	0.01695	27.00		12.56	3.16
	L0000985	285476.40	4026128.37	90.42	3.10	0.01695	27.00		12.56	3.16
	L0000986	285449.41	4026129.12	90.42	3.10	0.01695	27.00		12.56	3.16
	L0000987	285422.42	4026129.88	90.42	3.10	0.01695	27.00		12.56	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF2	L0000988	285395.43	4026130.63	90.41	3.10	0.01695	27.00		12.56	3.16
	L0000989	285368.44	4026131.39	90.40	3.10	0.01695	27.00		12.56	3.16
	L0000990	285341.45	4026132.14	90.38	3.10	0.01695	27.00		12.56	3.16
	L0000991	285314.46	4026132.90	90.32	3.10	0.01695	27.00		12.56	3.16
	L0000992	285287.47	4026133.65	90.25	3.10	0.01695	27.00		12.56	3.16
	L0000993	285260.48	4026134.41	90.16	3.10	0.01695	27.00		12.56	3.16
	L0000994	285233.49	4026135.17	90.07	3.10	0.01695	27.00		12.56	3.16
	L0000995	285206.50	4026135.92	89.98	3.10	0.01695	27.00		12.56	3.16
	L0000996	285179.51	4026136.68	89.90	3.10	0.01695	27.00		12.56	3.16
	L0000997	285152.52	4026137.43	89.82	3.10	0.01695	27.00		12.56	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF1	L0000998	286748.44	4026109.33	92.46	3.10	0.01695	27.00		12.56	3.16
	L0000999	286775.44	4026108.87	92.48	3.10	0.01695	27.00		12.56	3.16
	L0001000	286802.43	4026108.41	92.50	3.10	0.01695	27.00		12.56	3.16
	L0001001	286829.43	4026107.95	92.50	3.10	0.01695	27.00		12.56	3.16
	L0001002	286856.43	4026107.49	92.52	3.10	0.01695	27.00		12.56	3.16
	L0001003	286883.42	4026107.03	92.53	3.10	0.01695	27.00		12.56	3.16
	L0001004	286910.42	4026106.57	92.54	3.10	0.01695	27.00		12.56	3.16
	L0001005	286937.41	4026106.10	92.56	3.10	0.01695	27.00		12.56	3.16
	L0001006	286964.41	4026105.64	92.58	3.10	0.01695	27.00		12.56	3.16
	L0001007	286991.41	4026105.18	92.59	3.10	0.01695	27.00		12.56	3.16
	L0001008	287018.40	4026104.72	92.60	3.10	0.01695	27.00		12.56	3.16
	L0001009	287045.40	4026104.26	92.62	3.10	0.01695	27.00		12.56	3.16
	L0001010	287072.40	4026103.80	92.65	3.10	0.01695	27.00		12.56	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF1	L0001011	287099.39	4026103.34	92.69	3.10	0.01695	27.00		12.56	3.16
	L0001012	287126.39	4026102.88	92.73	3.10	0.01695	27.00		12.56	3.16
	L0001013	287153.38	4026102.42	92.77	3.10	0.01695	27.00		12.56	3.16
	L0001014	287180.38	4026101.96	92.82	3.10	0.01695	27.00		12.56	3.16
	L0001015	287207.38	4026101.50	92.87	3.10	0.01695	27.00		12.56	3.16
	L0001016	287234.37	4026101.04	92.91	3.10	0.01695	27.00		12.56	3.16
	L0001017	287261.37	4026100.58	92.95	3.10	0.01695	27.00		12.56	3.16
	L0001018	287288.36	4026100.12	93.00	3.10	0.01695	27.00		12.56	3.16
	L0001019	287315.36	4026099.65	93.04	3.10	0.01695	27.00		12.56	3.16
	L0001020	287342.36	4026099.19	93.08	3.10	0.01695	27.00		12.56	3.16
	L0001021	287369.35	4026098.73	93.12	3.10	0.01695	27.00		12.56	3.16
	L0001022	287396.35	4026098.26	93.17	3.10	0.01695	27.00		12.56	3.16
	L0001023	287423.34	4026097.77	93.23	3.10	0.01695	27.00		12.56	3.16
	L0001024	287450.34	4026097.28	93.27	3.10	0.01695	27.00		12.56	3.16
	L0001025	287477.33	4026096.79	93.32	3.10	0.01695	27.00		12.56	3.16
	L0001026	287504.33	4026096.31	93.37	3.10	0.01695	27.00		12.56	3.16
	L0001027	287531.33	4026095.82	93.42	3.10	0.01695	27.00		12.56	3.16
	L0001028	287558.32	4026095.33	93.45	3.10	0.01695	27.00		12.56	3.16
	L0001029	287585.32	4026094.84	93.49	3.10	0.01695	27.00		12.56	3.16
	L0001030	287612.31	4026094.35	93.52	3.10	0.01695	27.00		12.56	3.16
	L0001031	287639.31	4026093.86	93.55	3.10	0.01695	27.00		12.56	3.16
	L0001032	287666.30	4026093.38	93.60	3.10	0.01695	27.00		12.56	3.16
	L0001033	287693.30	4026092.89	93.63	3.10	0.01695	27.00		12.56	3.16
	L0001034	287720.29	4026092.40	93.64	3.10	0.01695	27.00		12.56	3.16
	L0001035	287747.29	4026091.91	93.67	3.12	0.01695	27.00		12.56	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF1	L0001036	287774.29	4026091.42	93.69	3.13	0.01695	27.00		12.56	3.16
	L0001037	287801.28	4026090.93	93.72	3.14	0.01695	27.00		12.56	3.16
	L0001038	287828.28	4026090.45	93.75	3.16	0.01695	27.00		12.56	3.16
	L0001039	287855.27	4026089.96	93.78	3.17	0.01695	27.00		12.56	3.16
	L0001040	287882.27	4026089.47	93.82	3.18	0.01695	27.00		12.56	3.16
	L0001041	287909.26	4026088.98	93.85	3.20	0.01695	27.00		12.56	3.16
	L0001042	287936.26	4026088.49	93.88	3.21	0.01695	27.00		12.56	3.16
	L0001043	287963.25	4026088.00	93.91	3.22	0.01695	27.00		12.56	3.16
	L0001044	287990.25	4026087.52	93.94	3.23	0.01695	27.00		12.56	3.16
	L0001045	288017.25	4026087.03	93.96	3.25	0.01695	27.00		12.56	3.16
	L0001046	288044.24	4026086.54	93.99	3.26	0.01695	27.00		12.56	3.16
	L0001047	288071.24	4026086.05	94.01	3.27	0.01695	27.00		12.56	3.16
	L0001048	288098.23	4026085.56	94.03	3.29	0.01695	27.00		12.56	3.16
	L0001049	288125.23	4026085.08	94.05	3.30	0.01695	27.00		12.56	3.16
	L0001050	288152.22	4026084.59	94.07	3.31	0.01695	27.00		12.56	3.16
	L0001051	288179.22	4026084.10	94.11	3.32	0.01695	27.00		12.56	3.16
	L0001052	288206.22	4026083.61	94.14	3.34	0.01695	27.00		12.56	3.16
	L0001053	288233.21	4026083.12	94.18	3.35	0.01695	27.00		12.56	3.16
	L0001054	288260.21	4026082.63	94.21	3.36	0.01695	27.00		12.56	3.16
	L0001055	288287.20	4026082.15	94.26	3.38	0.01695	27.00		12.56	3.16
	L0001056	288314.20	4026081.66	94.29	3.39	0.01695	27.00		12.56	3.16

Source Pathway

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Source Groups

Source Group ID:	List of Sources in Group (Source Range or Single Sources)
ONSITE	ONSITE
OFF2	OFF2
OFF1	OFF1
ALL	All Sources Included

Variable Emissions

Hour-of-Day / Day-of-Week Emission Rate Variation

Scenario: Scenario 1

Source ID: ONSITE

Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	4.20	4.20	4.20	4.20	4.20
	13 - 18	4.20	4.20	4.20	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	4.20	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: OFF1

Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	4.20	4.20	4.20	4.20	4.20
	13 - 18	4.20	4.20	4.20	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	4.20	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: OFF2

Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	4.20	4.20	4.20	4.20	4.20
	13 - 18	4.20	4.20	4.20	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	4.20	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	287571.61	4026059.70	RES	93.46	
2	287591.26	4026057.63	RES	93.47	
3	287608.83	4026059.70	RES	93.49	
4	287627.45	4026057.63	RES	93.51	
5	287645.03	4026058.67	RES	93.54	
6	287668.81	4026057.63	RES	93.58	
7	287685.36	4026045.23	RES	93.59	
8	287707.07	4026046.26	RES	93.61	
9	287727.75	4026047.29	RES	93.62	
10	287768.08	4026043.16	RES	93.66	
11	287785.66	4026043.16	RES	93.68	
12	287812.55	4026043.16	RES	93.72	
13	287832.19	4026044.19	RES	93.74	
14	287878.73	4026049.36	RES	93.80	
15	287895.27	4026054.53	RES	93.82	
16	287914.92	4026048.33	RES	93.84	
17	287571.61	4026021.44	RES	93.43	
18	287572.64	4025999.73	RES	93.42	
19	287570.57	4025981.11	RES	93.40	
20	287569.54	4025962.50	RES	93.39	
21	287566.44	4025939.75	RES	93.38	
22	287601.60	4026020.41	RES	93.46	
23	287622.28	4026023.51	RES	93.49	
24	287639.86	4026023.51	RES	93.51	
25	287659.50	4026025.58	RES	93.54	
26	287607.80	4025997.66	RES	93.45	
27	287604.70	4025982.15	RES	93.44	
28	287632.62	4025979.05	RES	93.47	
29	287653.30	4025981.11	RES	93.51	
30	287626.41	4025946.99	RES	93.45	

31	287661.57	4025945.96	RES	93.50
32	287685.36	4025990.42	RES	93.55
33	287702.93	4025987.32	RES	93.57
34	287725.68	4025989.39	RES	93.59
35	287746.37	4025988.35	RES	93.61
36	287763.94	4025985.25	RES	93.63
37	287772.22	4025953.19	RES	93.62
38	287726.72	4025951.13	RES	93.57
39	287703.97	4025953.19	RES	93.55
40	287683.29	4025955.26	RES	93.53
41	287575.74	4025898.39	RES	93.37
42	287578.85	4025875.64	RES	93.37
43	287578.85	4025851.86	RES	93.37
44	287577.81	4025828.07	RES	93.37
45	287584.02	4025805.32	RES	93.38
46	287622.28	4025810.49	RES	93.42
47	287627.45	4025850.82	RES	93.42
48	287626.41	4025872.54	RES	93.42
49	287635.72	4025897.35	RES	93.45
50	287664.67	4025897.35	RES	93.48
51	287689.49	4025901.49	RES	93.51
52	287709.14	4025893.22	RES	93.53
53	287727.75	4025897.35	RES	93.55
54	287752.57	4025892.18	RES	93.57
55	287772.22	4025896.32	RES	93.60
56	287798.07	4025899.42	RES	93.64
57	287817.72	4025897.35	RES	93.66
58	287837.36	4025899.42	RES	93.69
59	287857.01	4025899.42	RES	93.71
60	287881.83	4025891.15	RES	93.73
61	287904.58	4025893.22	RES	93.74
62	287923.19	4025893.22	RES	93.75
63	287921.12	4025948.02	RES	93.80
64	287895.27	4025950.09	RES	93.79
65	287878.73	4025943.89	RES	93.77
66	287855.98	4025942.85	RES	93.74
67	287837.36	4025945.96	RES	93.72
68	287810.48	4025948.02	RES	93.68

69	287812.55	4025992.49	RES	93.70
70	287833.23	4025991.45	RES	93.73
71	287852.87	4025990.42	RES	93.76
72	287876.66	4025988.35	RES	93.79
73	287891.13	4025986.28	RES	93.81
74	287916.99	4025991.45	RES	93.83
75	287643.99	4025808.42	RES	93.44
76	287664.67	4025808.42	RES	93.46
77	287692.59	4025809.46	RES	93.50
78	287709.14	4025814.63	RES	93.51
79	287729.82	4025812.56	RES	93.52
80	287751.54	4025810.49	RES	93.54
81	287771.18	4025808.42	RES	93.56
82	287790.83	4025811.53	RES	93.58
83	287816.68	4025806.36	RES	93.60
84	287838.40	4025812.56	RES	93.62
85	287862.18	4025809.46	RES	93.64
86	287879.76	4025805.32	RES	93.65
87	287901.48	4025805.32	RES	93.66
88	287920.09	4025805.32	RES	93.68
89	287921.12	4025852.89	RES	93.72
90	287899.41	4025852.89	RES	93.70
91	287878.73	4025854.96	RES	93.69
92	287860.11	4025854.96	RES	93.67
93	287834.26	4025857.03	RES	93.66
94	287815.65	4025859.09	RES	93.64
95	287793.93	4025857.03	RES	93.61
96	287773.25	4025863.23	RES	93.59
97	287751.54	4025864.26	RES	93.56
98	287730.85	4025862.20	RES	93.54
99	287712.24	4025862.20	RES	93.52
100	287687.42	4025858.06	RES	93.50
101	287665.71	4025859.09	RES	93.48
102	287962.23	4026054.51	RES	93.90
103	287985.57	4026052.90	RES	93.92
104	288008.12	4026049.68	RES	93.93
105	288031.47	4026048.88	RES	93.95
106	288051.60	4026043.24	RES	93.97

107	288078.16	4026044.05	RES	93.99
108	288092.66	4026042.44	RES	94.00
109	288110.37	4026045.66	RES	94.01
110	288137.74	4026043.24	RES	94.04
111	288154.65	4026046.46	RES	94.06
112	288177.19	4026042.44	RES	94.09
113	288223.09	4026042.44	RES	94.15
114	288264.15	4026046.46	RES	94.22
115	288294.74	4026041.63	RES	94.27
116	287966.25	4025994.93	RES	93.87
117	287984.77	4025994.93	RES	93.88
118	288008.92	4025997.35	RES	93.90
119	288028.25	4025996.54	RES	93.91
120	288051.60	4025995.74	RES	93.92
121	288073.33	4025998.96	RES	93.95
122	288091.85	4025998.15	RES	93.96
123	288113.59	4025997.35	RES	93.99
124	288153.04	4025997.35	RES	94.04
125	288178.00	4025999.76	RES	94.08
126	288195.71	4025997.35	RES	94.11
127	288231.14	4025999.76	RES	94.16
128	288248.05	4025998.96	RES	94.19
129	288299.57	4026015.87	RES	94.28
130	288305.21	4025994.13	RES	94.29
131	288303.60	4025971.58	RES	94.29
132	288301.18	4025949.04	RES	94.28
133	288298.77	4025928.11	RES	94.26
134	288297.96	4025908.79	RES	94.25
135	287966.25	4025949.04	RES	93.83
136	287985.57	4025949.04	RES	93.84
137	288009.73	4025949.85	RES	93.86
138	288027.44	4025946.63	RES	93.87
139	288052.40	4025945.82	RES	93.89
140	288074.14	4025947.43	RES	93.92
141	288097.49	4025945.82	RES	93.95
142	288117.62	4025949.85	RES	93.97
143	288175.58	4025950.65	RES	94.07
144	288252.88	4025973.20	RES	94.20

145	288255.29	4025953.87	RES	94.20
146	288252.07	4025929.72	RES	94.19
147	288200.54	4025946.63	RES	94.11
148	288219.06	4025924.08	RES	94.13
149	285750.00	4025350.00	UCART1	90.33
150	285850.00	4025350.00	UCART1	90.39
151	285950.00	4025350.00	UCART1	90.47
152	286050.00	4025350.00	UCART1	90.61
153	286150.00	4025350.00	UCART1	90.74
154	286250.00	4025350.00	UCART1	90.90
155	286350.00	4025350.00	UCART1	91.03
156	286450.00	4025350.00	UCART1	91.15
157	286550.00	4025350.00	UCART1	91.37
158	286650.00	4025350.00	UCART1	91.61
159	286750.00	4025350.00	UCART1	91.85
160	286850.00	4025350.00	UCART1	92.05
161	286950.00	4025350.00	UCART1	92.23
162	287050.00	4025350.00	UCART1	92.40
163	287150.00	4025350.00	UCART1	92.60
164	287250.00	4025350.00	UCART1	92.81
165	287350.00	4025350.00	UCART1	93.01
166	287450.00	4025350.00	UCART1	93.21
167	287550.00	4025350.00	UCART1	93.43
168	287650.00	4025350.00	UCART1	93.65
169	287750.00	4025350.00	UCART1	93.82
170	285550.00	4025450.00	UCART1	90.19
171	285650.00	4025450.00	UCART1	90.30
172	285750.00	4025450.00	UCART1	90.37
173	285850.00	4025450.00	UCART1	90.45
174	285950.00	4025450.00	UCART1	90.51
175	286050.00	4025450.00	UCART1	90.59
176	286150.00	4025450.00	UCART1	90.70
177	286250.00	4025450.00	UCART1	90.78
178	286350.00	4025450.00	UCART1	90.89
179	286450.00	4025450.00	UCART1	91.10
180	286550.00	4025450.00	UCART1	91.40
181	286650.00	4025450.00	UCART1	91.68
182	286750.00	4025450.00	UCART1	91.91

183	286850.00	4025450.00	UCART1	92.08
184	286950.00	4025450.00	UCART1	92.27
185	287050.00	4025450.00	UCART1	92.43
186	287150.00	4025450.00	UCART1	92.61
187	287250.00	4025450.00	UCART1	92.81
188	287350.00	4025450.00	UCART1	93.01
189	287450.00	4025450.00	UCART1	93.21
190	287550.00	4025450.00	UCART1	93.42
191	287650.00	4025450.00	UCART1	93.61
192	287750.00	4025450.00	UCART1	93.76
193	287850.00	4025450.00	UCART1	93.81
194	287950.00	4025450.00	UCART1	93.84
195	285450.00	4025550.00	UCART1	90.02
196	285550.00	4025550.00	UCART1	90.26
197	285650.00	4025550.00	UCART1	90.40
198	285750.00	4025550.00	UCART1	90.47
199	285850.00	4025550.00	UCART1	90.55
200	285950.00	4025550.00	UCART1	90.64
201	286050.00	4025550.00	UCART1	90.65
202	286150.00	4025550.00	UCART1	90.67
203	286250.00	4025550.00	UCART1	90.69
204	286350.00	4025550.00	UCART1	90.80
205	286450.00	4025550.00	UCART1	91.15
206	286550.00	4025550.00	UCART1	91.48
207	286650.00	4025550.00	UCART1	91.74
208	286750.00	4025550.00	UCART1	91.93
209	286850.00	4025550.00	UCART1	92.10
210	286950.00	4025550.00	UCART1	92.29
211	287050.00	4025550.00	UCART1	92.45
212	287150.00	4025550.00	UCART1	92.62
213	287250.00	4025550.00	UCART1	92.80
214	287350.00	4025550.00	UCART1	93.01
215	287450.00	4025550.00	UCART1	93.19
216	287550.00	4025550.00	UCART1	93.40
217	287650.00	4025550.00	UCART1	93.55
218	287750.00	4025550.00	UCART1	93.65
219	287850.00	4025550.00	UCART1	93.69
220	287950.00	4025550.00	UCART1	93.73

221	288050.00	4025550.00	UCART1	93.82
222	285350.00	4025650.00	UCART1	89.63
223	285450.00	4025650.00	UCART1	90.15
224	285550.00	4025650.00	UCART1	90.41
225	285650.00	4025650.00	UCART1	90.50
226	285750.00	4025650.00	UCART1	90.56
227	285850.00	4025650.00	UCART1	90.63
228	285950.00	4025650.00	UCART1	90.73
229	286050.00	4025650.00	UCART1	90.86
230	286150.00	4025650.00	UCART1	90.88
231	286250.00	4025650.00	UCART1	90.94
232	286350.00	4025650.00	UCART1	90.98
233	286450.00	4025650.00	UCART1	91.25
234	286550.00	4025650.00	UCART1	91.57
235	286650.00	4025650.00	UCART1	91.80
236	286750.00	4025650.00	UCART1	91.98
237	286850.00	4025650.00	UCART1	92.11
238	286950.00	4025650.00	UCART1	92.28
239	287050.00	4025650.00	UCART1	92.46
240	287150.00	4025650.00	UCART1	92.63
241	287250.00	4025650.00	UCART1	92.81
242	287350.00	4025650.00	UCART1	92.99
243	287450.00	4025650.00	UCART1	93.19
244	287550.00	4025650.00	UCART1	93.37
245	287650.00	4025650.00	UCART1	93.49
246	287750.00	4025650.00	UCART1	93.55
247	287850.00	4025650.00	UCART1	93.60
248	287950.00	4025650.00	UCART1	93.68
249	288050.00	4025650.00	UCART1	93.79
250	288150.00	4025650.00	UCART1	93.93
251	285250.00	4025750.00	UCART1	89.37
252	285350.00	4025750.00	UCART1	89.91
253	285450.00	4025750.00	UCART1	90.40
254	285550.00	4025750.00	UCART1	90.59
255	285650.00	4025750.00	UCART1	90.66
256	285750.00	4025750.00	UCART1	90.70
257	285850.00	4025750.00	UCART1	90.75
258	285950.00	4025750.00	UCART1	90.86

259	286050.00	4025750.00	UCART1	91.03
260	286150.00	4025750.00	UCART1	91.15
261	286250.00	4025750.00	UCART1	91.23
262	286350.00	4025750.00	UCART1	91.34
263	286450.00	4025750.00	UCART1	91.51
264	286550.00	4025750.00	UCART1	91.73
265	286650.00	4025750.00	UCART1	91.87
266	286750.00	4025750.00	UCART1	91.99
267	286850.00	4025750.00	UCART1	92.12
268	286950.00	4025750.00	UCART1	92.28
269	287050.00	4025750.00	UCART1	92.46
270	287150.00	4025750.00	UCART1	92.64
271	287250.00	4025750.00	UCART1	92.81
272	287350.00	4025750.00	UCART1	93.00
273	287450.00	4025750.00	UCART1	93.18
274	287550.00	4025750.00	UCART1	93.34
275	287650.00	4025750.00	UCART1	93.45
276	287750.00	4025750.00	UCART1	93.53
277	287850.00	4025750.00	UCART1	93.60
278	287950.00	4025750.00	UCART1	93.67
279	288050.00	4025750.00	UCART1	93.77
280	288150.00	4025750.00	UCART1	93.93
281	288250.00	4025750.00	UCART1	94.12
282	285250.00	4025850.00	UCART1	89.83
283	285350.00	4025850.00	UCART1	90.30
284	285450.00	4025850.00	UCART1	90.60
285	285550.00	4025850.00	UCART1	90.68
286	285650.00	4025850.00	UCART1	90.77
287	285750.00	4025850.00	UCART1	90.86
288	285850.00	4025850.00	UCART1	90.92
289	285950.00	4025850.00	UCART1	91.02
290	286050.00	4025850.00	UCART1	91.15
291	286150.00	4025850.00	UCART1	91.30
292	286250.00	4025850.00	UCART1	91.43
293	286350.00	4025850.00	UCART1	91.61
294	286450.00	4025850.00	UCART1	91.76
295	286550.00	4025850.00	UCART1	91.91
296	286650.00	4025850.00	UCART1	92.01

297	286750.00	4025850.00	UCART1	92.05
298	286850.00	4025850.00	UCART1	92.14
299	286950.00	4025850.00	UCART1	92.29
300	287050.00	4025850.00	UCART1	92.47
301	287150.00	4025850.00	UCART1	92.65
302	287250.00	4025850.00	UCART1	92.83
303	287350.00	4025850.00	UCART1	93.00
304	287450.00	4025850.00	UCART1	93.17
305	287950.00	4025850.00	UCART1	93.73
306	288050.00	4025850.00	UCART1	93.83
307	288150.00	4025850.00	UCART1	93.97
308	288250.00	4025850.00	UCART1	94.14
309	285150.00	4025950.00	UCART1	89.59
310	285250.00	4025950.00	UCART1	90.08
311	285350.00	4025950.00	UCART1	90.60
312	285450.00	4025950.00	UCART1	90.75
313	285550.00	4025950.00	UCART1	90.75
314	285650.00	4025950.00	UCART1	90.77
315	285750.00	4025950.00	UCART1	90.81
316	285850.00	4025950.00	UCART1	90.93
317	285950.00	4025950.00	UCART1	91.02
318	286050.00	4025950.00	UCART1	91.16
319	286150.00	4025950.00	UCART1	91.37
320	286250.00	4025950.00	UCART1	91.58
321	286350.00	4025950.00	UCART1	91.79
322	286450.00	4025950.00	UCART1	91.98
323	286550.00	4025950.00	UCART1	92.12
324	286650.00	4025950.00	UCART1	92.16
325	286750.00	4025950.00	UCART1	92.20
326	286850.00	4025950.00	UCART1	92.23
327	286950.00	4025950.00	UCART1	92.33
328	287050.00	4025950.00	UCART1	92.50
329	287150.00	4025950.00	UCART1	92.69
330	287250.00	4025950.00	UCART1	92.87
331	287350.00	4025950.00	UCART1	93.04
332	287450.00	4025950.00	UCART1	93.20
333	285150.00	4026050.00	UCART1	89.64
334	285250.00	4026050.00	UCART1	90.13

335	285350.00	4026050.00	UCART1	90.60
336	285450.00	4026050.00	UCART1	90.59
337	285550.00	4026050.00	UCART1	90.57
338	285650.00	4026050.00	UCART1	90.61
339	285750.00	4026050.00	UCART1	90.69
340	285850.00	4026050.00	UCART1	90.82
341	285950.00	4026050.00	UCART1	90.95
342	286050.00	4026050.00	UCART1	91.16
343	286150.00	4026050.00	UCART1	91.44
344	286250.00	4026050.00	UCART1	91.70
345	286350.00	4026050.00	UCART1	91.92
346	286450.00	4026050.00	UCART1	92.12
347	286550.00	4026050.00	UCART1	92.27
348	286650.00	4026050.00	UCART1	92.33
349	286750.00	4026050.00	UCART1	92.38
350	286850.00	4026050.00	UCART1	92.41
351	286950.00	4026050.00	UCART1	92.47
352	287050.00	4026050.00	UCART1	92.57
353	287150.00	4026050.00	UCART1	92.74
354	287250.00	4026050.00	UCART1	92.92
355	287350.00	4026050.00	UCART1	93.08
356	287450.00	4026050.00	UCART1	93.25
357	285150.00	4026150.00	UCART1	89.84
358	285250.00	4026150.00	UCART1	90.13
359	285350.00	4026150.00	UCART1	90.37
360	285450.00	4026150.00	UCART1	90.39
361	285550.00	4026150.00	UCART1	90.44
362	285650.00	4026150.00	UCART1	90.50
363	285750.00	4026150.00	UCART1	90.60
364	285850.00	4026150.00	UCART1	90.71
365	287650.00	4026150.00	UCART1	93.61
366	287750.00	4026150.00	UCART1	93.71
367	287850.00	4026150.00	UCART1	93.81
368	287950.00	4026150.00	UCART1	93.92
369	288050.00	4026150.00	UCART1	94.03
370	288150.00	4026150.00	UCART1	94.11
371	288250.00	4026150.00	UCART1	94.21
372	285150.00	4026250.00	UCART1	90.00

373	285250.00	4026250.00	UCART1	90.19
374	285350.00	4026250.00	UCART1	90.31
375	285450.00	4026250.00	UCART1	90.37
376	285550.00	4026250.00	UCART1	90.42
377	285650.00	4026250.00	UCART1	90.48
378	285750.00	4026250.00	UCART1	90.59
379	285850.00	4026250.00	UCART1	90.73
380	287650.00	4026250.00	UCART1	93.70
381	287750.00	4026250.00	UCART1	93.80
382	287850.00	4026250.00	UCART1	93.89
383	287950.00	4026250.00	UCART1	93.98
384	288050.00	4026250.00	UCART1	94.06
385	288150.00	4026250.00	UCART1	94.15
386	288250.00	4026250.00	UCART1	94.24
387	285150.00	4026350.00	UCART1	90.13
388	285250.00	4026350.00	UCART1	90.27
389	285350.00	4026350.00	UCART1	90.37
390	285450.00	4026350.00	UCART1	90.44
391	285550.00	4026350.00	UCART1	90.52
392	285650.00	4026350.00	UCART1	90.58
393	285750.00	4026350.00	UCART1	90.66
394	285850.00	4026350.00	UCART1	90.81
395	287650.00	4026350.00	UCART1	93.76
396	287750.00	4026350.00	UCART1	93.84
397	287850.00	4026350.00	UCART1	93.89
398	287950.00	4026350.00	UCART1	93.97
399	288050.00	4026350.00	UCART1	94.05
400	288150.00	4026350.00	UCART1	94.13
401	288250.00	4026350.00	UCART1	94.24
402	285150.00	4026450.00	UCART1	90.28
403	285250.00	4026450.00	UCART1	90.41
404	285350.00	4026450.00	UCART1	90.52
405	285450.00	4026450.00	UCART1	90.58
406	285550.00	4026450.00	UCART1	90.67
407	285650.00	4026450.00	UCART1	90.72
408	285750.00	4026450.00	UCART1	90.81
409	285850.00	4026450.00	UCART1	90.93
410	287650.00	4026450.00	UCART1	93.65

411	287750.00	4026450.00	UCART1	93.75
412	287850.00	4026450.00	UCART1	93.84
413	287950.00	4026450.00	UCART1	93.93
414	288050.00	4026450.00	UCART1	94.02
415	288150.00	4026450.00	UCART1	94.11
416	288250.00	4026450.00	UCART1	94.21
417	285150.00	4026550.00	UCART1	90.48
418	285250.00	4026550.00	UCART1	90.60
419	285350.00	4026550.00	UCART1	90.67
420	285450.00	4026550.00	UCART1	90.73
421	285550.00	4026550.00	UCART1	90.79
422	285650.00	4026550.00	UCART1	90.86
423	285750.00	4026550.00	UCART1	90.92
424	285850.00	4026550.00	UCART1	91.00
425	287650.00	4026550.00	UCART1	93.57
426	287750.00	4026550.00	UCART1	93.65
427	287850.00	4026550.00	UCART1	93.78
428	287950.00	4026550.00	UCART1	93.86
429	288050.00	4026550.00	UCART1	93.98
430	288150.00	4026550.00	UCART1	94.09
431	288250.00	4026550.00	UCART1	94.16
432	285150.00	4026650.00	UCART1	90.60
433	285250.00	4026650.00	UCART1	90.75
434	285350.00	4026650.00	UCART1	90.81
435	285450.00	4026650.00	UCART1	90.87
436	285550.00	4026650.00	UCART1	90.90
437	285650.00	4026650.00	UCART1	90.97
438	285750.00	4026650.00	UCART1	91.04
439	285850.00	4026650.00	UCART1	91.13
440	287650.00	4026650.00	UCART1	93.65
441	287750.00	4026650.00	UCART1	93.66
442	287850.00	4026650.00	UCART1	93.72
443	287950.00	4026650.00	UCART1	93.83
444	288050.00	4026650.00	UCART1	93.98
445	288150.00	4026650.00	UCART1	94.06
446	288250.00	4026650.00	UCART1	94.10
447	285150.00	4026750.00	UCART1	90.67
448	285250.00	4026750.00	UCART1	90.81

449	285350.00	4026750.00	UCART1	90.90
450	285450.00	4026750.00	UCART1	90.96
451	285550.00	4026750.00	UCART1	91.03
452	285650.00	4026750.00	UCART1	91.07
453	285750.00	4026750.00	UCART1	91.10
454	285850.00	4026750.00	UCART1	91.17
455	287650.00	4026750.00	UCART1	93.76
456	287750.00	4026750.00	UCART1	93.78
457	287850.00	4026750.00	UCART1	93.81
458	287950.00	4026750.00	UCART1	93.92
459	288050.00	4026750.00	UCART1	93.99
460	288150.00	4026750.00	UCART1	94.00
461	288250.00	4026750.00	UCART1	93.99
462	285150.00	4026850.00	UCART1	90.63
463	285250.00	4026850.00	UCART1	90.79
464	285350.00	4026850.00	UCART1	90.88
465	285450.00	4026850.00	UCART1	90.99
466	285550.00	4026850.00	UCART1	91.05
467	285650.00	4026850.00	UCART1	91.06
468	285750.00	4026850.00	UCART1	91.07
469	285850.00	4026850.00	UCART1	91.16
470	286750.00	4026850.00	UCART1	92.25
471	286850.00	4026850.00	UCART1	92.33
472	286950.00	4026850.00	UCART1	92.45
473	287050.00	4026850.00	UCART1	92.55
474	287150.00	4026850.00	UCART1	92.68
475	287250.00	4026850.00	UCART1	92.86
476	287350.00	4026850.00	UCART1	93.16
477	287450.00	4026850.00	UCART1	93.51
478	287550.00	4026850.00	UCART1	93.82
479	287650.00	4026850.00	UCART1	93.84
480	287750.00	4026850.00	UCART1	93.88
481	287850.00	4026850.00	UCART1	93.92
482	287950.00	4026850.00	UCART1	93.94
483	288050.00	4026850.00	UCART1	93.95
484	288150.00	4026850.00	UCART1	93.89
485	288250.00	4026850.00	UCART1	93.84
486	285150.00	4026950.00	UCART1	90.54

487	285250.00	4026950.00	UCART1	90.75
488	285350.00	4026950.00	UCART1	90.86
489	285450.00	4026950.00	UCART1	90.94
490	285550.00	4026950.00	UCART1	90.95
491	285650.00	4026950.00	UCART1	90.92
492	285750.00	4026950.00	UCART1	90.96
493	285850.00	4026950.00	UCART1	91.10
494	285950.00	4026950.00	UCART1	91.20
495	286050.00	4026950.00	UCART1	91.32
496	286150.00	4026950.00	UCART1	91.45
497	286250.00	4026950.00	UCART1	91.57
498	286350.00	4026950.00	UCART1	91.69
499	286450.00	4026950.00	UCART1	91.82
500	286550.00	4026950.00	UCART1	91.93
501	286650.00	4026950.00	UCART1	92.04
502	286750.00	4026950.00	UCART1	92.13
503	286850.00	4026950.00	UCART1	92.24
504	286950.00	4026950.00	UCART1	92.35
505	287050.00	4026950.00	UCART1	92.51
506	287150.00	4026950.00	UCART1	92.58
507	287250.00	4026950.00	UCART1	92.62
508	287350.00	4026950.00	UCART1	92.83
509	287450.00	4026950.00	UCART1	93.16
510	287550.00	4026950.00	UCART1	93.42
511	287650.00	4026950.00	UCART1	93.61
512	287750.00	4026950.00	UCART1	93.79
513	287850.00	4026950.00	UCART1	93.84
514	287950.00	4026950.00	UCART1	93.81
515	288050.00	4026950.00	UCART1	93.82
516	288150.00	4026950.00	UCART1	93.79
517	288250.00	4026950.00	UCART1	93.82
518	285150.00	4027050.00	UCART1	90.46
519	285250.00	4027050.00	UCART1	90.72
520	285350.00	4027050.00	UCART1	90.84
521	285450.00	4027050.00	UCART1	90.85
522	285550.00	4027050.00	UCART1	90.73
523	285650.00	4027050.00	UCART1	90.75
524	285750.00	4027050.00	UCART1	90.89

525	285850.00	4027050.00	UCART1	91.03
526	285950.00	4027050.00	UCART1	91.13
527	286050.00	4027050.00	UCART1	91.26
528	286150.00	4027050.00	UCART1	91.38
529	286250.00	4027050.00	UCART1	91.51
530	286350.00	4027050.00	UCART1	91.62
531	286450.00	4027050.00	UCART1	91.73
532	286550.00	4027050.00	UCART1	91.84
533	286650.00	4027050.00	UCART1	91.96
534	286750.00	4027050.00	UCART1	92.05
535	286850.00	4027050.00	UCART1	92.14
536	286950.00	4027050.00	UCART1	92.29
537	287050.00	4027050.00	UCART1	92.42
538	287150.00	4027050.00	UCART1	92.41
539	287250.00	4027050.00	UCART1	92.38
540	287350.00	4027050.00	UCART1	92.50
541	287450.00	4027050.00	UCART1	92.63
542	287550.00	4027050.00	UCART1	92.80
543	287650.00	4027050.00	UCART1	92.74
544	287750.00	4027050.00	UCART1	92.75
545	287850.00	4027050.00	UCART1	92.72
546	287950.00	4027050.00	UCART1	92.84
547	288050.00	4027050.00	UCART1	93.77
548	288150.00	4027050.00	UCART1	93.82
549	288250.00	4027050.00	UCART1	93.92
550	285250.00	4027150.00	UCART1	90.61
551	285350.00	4027150.00	UCART1	90.76
552	285450.00	4027150.00	UCART1	90.71
553	285550.00	4027150.00	UCART1	90.59
554	285650.00	4027150.00	UCART1	90.73
555	285750.00	4027150.00	UCART1	90.87
556	285850.00	4027150.00	UCART1	90.97
557	285950.00	4027150.00	UCART1	91.05
558	286050.00	4027150.00	UCART1	91.17
559	286150.00	4027150.00	UCART1	91.31
560	286250.00	4027150.00	UCART1	91.44
561	286350.00	4027150.00	UCART1	91.56
562	286450.00	4027150.00	UCART1	91.67

563	286550.00	4027150.00	UCART1	91.77
564	286650.00	4027150.00	UCART1	91.89
565	286750.00	4027150.00	UCART1	91.98
566	286850.00	4027150.00	UCART1	92.10
567	286950.00	4027150.00	UCART1	92.25
568	287050.00	4027150.00	UCART1	92.33
569	287150.00	4027150.00	UCART1	92.26
570	287250.00	4027150.00	UCART1	92.31
571	287350.00	4027150.00	UCART1	92.30
572	287450.00	4027150.00	UCART1	92.30
573	287550.00	4027150.00	UCART1	92.28
574	287650.00	4027150.00	UCART1	92.36
575	287750.00	4027150.00	UCART1	92.41
576	287850.00	4027150.00	UCART1	92.52
577	287950.00	4027150.00	UCART1	93.04
578	288050.00	4027150.00	UCART1	93.83
579	288150.00	4027150.00	UCART1	93.90
580	288250.00	4027150.00	UCART1	94.01
581	285250.00	4027250.00	UCART1	90.38
582	285350.00	4027250.00	UCART1	90.50
583	285450.00	4027250.00	UCART1	90.49
584	285550.00	4027250.00	UCART1	90.52
585	285650.00	4027250.00	UCART1	90.71
586	285750.00	4027250.00	UCART1	90.83
587	285850.00	4027250.00	UCART1	90.84
588	285950.00	4027250.00	UCART1	90.92
589	286050.00	4027250.00	UCART1	91.07
590	286150.00	4027250.00	UCART1	91.25
591	286250.00	4027250.00	UCART1	91.40
592	286350.00	4027250.00	UCART1	91.51
593	286450.00	4027250.00	UCART1	91.60
594	286550.00	4027250.00	UCART1	91.69
595	286650.00	4027250.00	UCART1	91.81
596	286750.00	4027250.00	UCART1	91.92
597	286850.00	4027250.00	UCART1	92.07
598	286950.00	4027250.00	UCART1	92.20
599	287050.00	4027250.00	UCART1	92.28
600	287150.00	4027250.00	UCART1	92.35

601	287250.00	4027250.00	UCART1	92.41
602	287350.00	4027250.00	UCART1	92.43
603	287450.00	4027250.00	UCART1	92.41
604	287550.00	4027250.00	UCART1	92.47
605	287650.00	4027250.00	UCART1	92.66
606	287750.00	4027250.00	UCART1	92.87
607	287850.00	4027250.00	UCART1	93.11
608	287950.00	4027250.00	UCART1	93.44
609	288050.00	4027250.00	UCART1	93.78
610	288150.00	4027250.00	UCART1	93.89
611	285350.00	4027350.00	UCART1	90.28
612	285450.00	4027350.00	UCART1	90.46
613	285550.00	4027350.00	UCART1	90.52
614	285650.00	4027350.00	UCART1	90.62
615	285750.00	4027350.00	UCART1	90.69
616	285850.00	4027350.00	UCART1	90.71
617	285950.00	4027350.00	UCART1	90.83
618	286050.00	4027350.00	UCART1	91.03
619	286150.00	4027350.00	UCART1	91.19
620	286250.00	4027350.00	UCART1	91.34
621	286350.00	4027350.00	UCART1	91.44
622	286450.00	4027350.00	UCART1	91.51
623	286550.00	4027350.00	UCART1	91.60
624	286650.00	4027350.00	UCART1	91.73
625	286750.00	4027350.00	UCART1	91.86
626	286850.00	4027350.00	UCART1	91.98
627	286950.00	4027350.00	UCART1	92.08
628	287050.00	4027350.00	UCART1	92.21
629	287150.00	4027350.00	UCART1	92.34
630	287250.00	4027350.00	UCART1	92.41
631	287350.00	4027350.00	UCART1	92.48
632	287450.00	4027350.00	UCART1	92.50
633	287550.00	4027350.00	UCART1	92.62
634	287650.00	4027350.00	UCART1	92.82
635	287750.00	4027350.00	UCART1	93.05
636	287850.00	4027350.00	UCART1	93.29
637	287950.00	4027350.00	UCART1	93.47
638	288050.00	4027350.00	UCART1	93.68

639	285350.00	4027450.00	UCART1	90.09
640	285450.00	4027450.00	UCART1	90.52
641	285550.00	4027450.00	UCART1	90.74
642	285650.00	4027450.00	UCART1	90.75
643	285750.00	4027450.00	UCART1	90.74
644	285850.00	4027450.00	UCART1	90.75
645	285950.00	4027450.00	UCART1	90.93
646	286050.00	4027450.00	UCART1	91.07
647	286150.00	4027450.00	UCART1	91.18
648	286250.00	4027450.00	UCART1	91.28
649	286350.00	4027450.00	UCART1	91.35
650	286450.00	4027450.00	UCART1	91.39
651	286550.00	4027450.00	UCART1	91.48
652	286650.00	4027450.00	UCART1	91.65
653	286750.00	4027450.00	UCART1	91.81
654	286850.00	4027450.00	UCART1	91.91
655	286950.00	4027450.00	UCART1	92.02
656	287050.00	4027450.00	UCART1	92.12
657	287150.00	4027450.00	UCART1	92.23
658	287250.00	4027450.00	UCART1	92.37
659	287350.00	4027450.00	UCART1	92.50
660	287450.00	4027450.00	UCART1	92.61
661	285450.00	4027550.00	UCART1	90.45
662	285550.00	4027550.00	UCART1	90.74
663	285650.00	4027550.00	UCART1	90.83
664	285750.00	4027550.00	UCART1	90.87
665	285850.00	4027550.00	UCART1	90.94
666	285950.00	4027550.00	UCART1	91.02
667	286050.00	4027550.00	UCART1	91.08
668	286150.00	4027550.00	UCART1	91.15
669	286250.00	4027550.00	UCART1	91.21
670	286350.00	4027550.00	UCART1	91.24
671	286450.00	4027550.00	UCART1	91.24
672	286550.00	4027550.00	UCART1	91.31
673	286650.00	4027550.00	UCART1	91.53
674	286750.00	4027550.00	UCART1	91.79
675	286850.00	4027550.00	UCART1	91.95
676	286950.00	4027550.00	UCART1	92.01

677	287050.00	4027550.00	UCART1	92.09
678	287150.00	4027550.00	UCART1	92.22
679	287250.00	4027550.00	UCART1	92.37
680	287350.00	4027550.00	UCART1	92.55
681	287450.00	4027550.00	UCART1	92.69
682	285650.00	4027650.00	UCART1	90.81
683	285750.00	4027650.00	UCART1	90.89
684	285850.00	4027650.00	UCART1	90.94
685	285950.00	4027650.00	UCART1	90.98
686	286050.00	4027650.00	UCART1	91.01
687	286150.00	4027650.00	UCART1	91.05
688	286250.00	4027650.00	UCART1	91.09
689	286350.00	4027650.00	UCART1	91.08
690	286450.00	4027650.00	UCART1	91.02
691	286550.00	4027650.00	UCART1	91.01
692	286650.00	4027650.00	UCART1	91.38
693	286750.00	4027650.00	UCART1	91.82
694	286850.00	4027650.00	UCART1	92.01
695	286950.00	4027650.00	UCART1	92.07

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	UCART1	Receptors generated from Uniform Cartesian Grid
3	RES	Resident

Meteorology Pathway

Met Input Data

Surface Met Data

Filename: ..\Visalia_93144\Visalia_2007-2010.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: ..\Visalia_93144\Visalia_2007-2010.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 89.90 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface Upper Air		2007 2007			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2007 Start Hour: 1 End Date: 12/31/2010 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: CONSTRUCTION.AD

Averaging Period	Source Group ID	High Value	File Name
1	ONSITE	1st	ONSITE_01.PLT
Period	ONSITE		ONSITE_PE.PLT
Period	OFF1		OFF1_PE.PLT
Period	OFF2		OFF2_PE.PLT
1	OFF2	1st	OFF2_01.PLT
1	OFF1	1st	OFF1_01.PLT

Shirk & Riggin Industrial Park Project
Operational Health Risk Assessment -Truck Diesel Particulate Matter Emissions

Source	Daily One-Way Trips	Idle Duration per Day (min)	Average One-Way Distance (mi)	PM10 Running Exhaust (g/mi)	PM10 Idle Exhaust (g/veh-hr)	DPM Emissions (g/trip)	DPM Emissions (lb/day)	DPM Emissions (lb/year)
On-Site Running Exhaust[1] - On-Site Travel	2,034	0	0.5	0.0103	-	0.005	0.023	8.41
Off-Site Running Exhaust[2] -Riggin Ave, East of Shirk Rd	509	0	1.0	0.0087	-	0.009	0.010	3.51
Off-Site Running Exhaust[2] -Riggin Ave , West of Shirk Rd	1,526	0	1.5	0.0087	-	0.013	0.044	15.89
Off-Site Running Exhaust[2] -Shirk Rd , North of Riggin Ave	407	0	1.0	0.0087	-	0.009	0.008	2.83
On-Site Idle[3] at Driveways	2,034	10	0.0	-	0.01221	0.002	0.009	3.33
On-Site Idle[3] at Docks/Truck Parking	2,034	10	0.0	-	0.01221	0.002	0.009	3.33

Notes:
All Truck Emission Factors for Buildout Year 2028 for HHDT Diesel Fueled Trucks for Tulare County using EMFAC Project Level Emission Factors (see Raw Results Below)

1 On-Site Running Exhast are for average of speeds <15 mph
2 Off-Site Running Exhaust in Project Area (along Riggin and Shirk) are based on average of speeds <=25 mph
3 Idling accounts for incidences upon entering, egressing in driveways as well as maneuvering at loading docks and in parking stalls.
Assuming 5 minutes per occurance, idling times are assigned 10 minutes for driveway idling points and 10 minutes for dock/parking area sources - for a total of 20 minutes per truck visit.

EMFAC2021 - Project Level (PL) Web Tool Results (EMFAC2021 v.1.0.2)

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative _humidity	process	speed_time	pollutant	emission_rate
2028	Annual	Tulare (SJV)	HHDT	Dsl	60	50	RUNEX	5	PM10	0.01256477
2028	Annual	Tulare (SJV)	HHDT	Dsl	60	50	RUNEX	10	PM10	0.010405099
2028	Annual	Tulare (SJV)	HHDT	Dsl	60	50	RUNEX	15	PM10	0.008023515
2028	Annual	Tulare (SJV)	HHDT	Dsl	60	50	RUNEX	20	PM10	0.006739972
2028	Annual	Tulare (SJV)	HHDT	Dsl	60	50	RUNEX	25	PM10	0.005886805
2028	Annual	Tulare (SJV)	HHDT	Dsl			IDLEX		PM10	0.012207354

Note: Units from EMFAC2021 PM Emission Factors are g/mi for Running Exhaust (RUNEX) and g/veh-hr for Idling Exhaust (IDLEX)

Shirk & Riggin Industrial Park Project
Modeled Source Parameters - Point Sources

Source Type	Source ID	Source Group ID	Stack Ht (m)	Stack Diameter (m)	Exit Temperature (K)	Exit Velocity (m/s)	Emission Rate (g/s)
Truck Idling - Driveway 1	DRIVE_01	IDLE_DVW	3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 2	DRIVE_02		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 3	DRIVE_03		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 4	DRIVE_04		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 5	DRIVE_05		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 6	DRIVE_06		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 7	DRIVE_07		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 8	DRIVE_08		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 9	DRIVE_09		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 10	DRIVE_10		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 11	DRIVE_11		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 12	DRIVE_12		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 13	DRIVE_13		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 14	DRIVE_14		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 15	DRIVE_15		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 16	DRIVE_16		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 17	DRIVE_17		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 18	DRIVE_18		3.84	0.10	366	51.71	0.05263
Truck Idling - Driveway 19	DRIVE_19		3.84	0.10	366	51.71	0.05263
Gas Station - Loading	GAS_LOAD	LOAD	3.66	0.0508	291	0.001	1
Gas Station - Breathing	GAS_BREATH	BREATHE	3.66	0.0508	289	0.001	1

Notes:
Exhaust Parameters for Idling Trucks from San Joaquin Valley APCD, Guidance for Air Dispersion Modeling, Working Draft, January 2007.
Location for Driveways from the Shirk & Riggin Industrial Park Traffic Analysis, July 2022.

Exhaust Parameters for Gas Station Vent from the California Air Resources Board and California Air Pollution Control Officers Association Gasoline Service Station Industrywide Risk Assessment Technical Guidance February 18, 2022.

Shirk & Riggin Industrial Project
Modeled Source Parameters - Volume Sources

Source Type	High Dock Doors	Location	Source ID	Source Group ID	Truck Exhaust Height (m)	Plume Height (m)	Release Height (m)	Source Width (m)	Initial Lateral Dimensions (Sigma Y)	Initial Vertical Dimensions (Sigma Z)	Emission Rate (g/s)
Off-Site Truck Travel -Riggin Ave, East of Shirk (max 25%)		Off-Site Roadways	RIGGIN_E	RIGGIN_E	3.84	6.53	3.26	16.00	7.44	**3.04**	**1**
Off-Site Truck Travel -Riggin Ave, West of Shirk (max 75%)		Off-Site Roadways	RIGGIN_W	RIGGIN_W	3.84	6.53	3.26	16.00	7.44	**3.04**	**1**
Off-Site Truck Travel - Shirk Rd, North of Riggin (max 20%)		Off-Site Roadways	SHIRK_N	SHIRK_NO	3.84	6.53	3.26	16.00	7.44	**3.04**	**1**
Truck Idling - Docks/Parking Stalls	82	Building 1 - Northside	PARK_1N	IDLE_DOC	3.84	6.53	3.265	20	9.30	3.02	0.10074
Truck Idling - Docks/Parking Stalls	89	Building 1 - Southside	PARK_1S								0.10934
Truck Idling - Docks/Parking Stalls	107	Building 2 - Northside	PARK_2N								0.13145
Truck Idling - Docks/Parking Stalls	107	Building 2 - Southside	PARK_2S								0.13145
Truck Idling - Docks/Parking Stalls	43	Building 3	PARK_3								0.05283
Truck Idling - Docks/Parking Stalls	54	Building 4	PARK_4								0.06634
Truck Idling - Docks/Parking Stalls	47	Building 5	PARK_5								0.05774
Truck Idling - Docks/Parking Stalls	29	Building 6	PARK_6								0.03563
Truck Idling - Docks/Parking Stalls	64	Building 7 - West	PARK_7W								0.07862
Truck Idling - Docks/Parking Stalls	64	Building 7 - East	PARK_7E								0.07862
Truck Idling - Docks/Parking Stalls	64	Building 8 - West	PARK_8W								0.07862
Truck Idling - Docks/Parking Stalls	64	Building 8 - East	PARK_8E								0.07862
Gas Station - Fueling		Gas Station Pump Area	GAS_FUEL	GAS_REFU		4	1.5	28.0	6.51	1.86	1
Gas Station - Spillage		Gas Station Pump Area	GAS_SPILL	GAS_SPIL		4	1.0	28.0	6.51	1.86	1
Gas Station - Hose Permeation		Gas Station Pump Area	GAS_HOSE	GAS_HOSE		4	1.0	28.0	6.51	1.86	1

Notes: Truck Idling Emissions apportioned by High-Dock Doors
Truck Plume Height = 1.7 x Exhaust Release Height
Release Height for Truck Exhaust = Plume Height/2

Source and Release Height For Gas Stations fromGasoline Service Station Industrywide Risk Assessment Technical Guidance February 18, 2022.

Initial Lateral Dimension Sigma Y = Length (m)/4.3
Initial Vertical Dimension SigmaZ = Height (m)/2.15

Shirk & Riggin Industrial Project
Modeled Source Parameters - Area Sources

Description	Location	Source ID	Source Group ID	Area (m2)	Release Height (m)	Initial Vertical Dimensions (Sigma Z)	Emission Rate (g/s)
On-Site Truck Travel	Sitewide - All Roads	ONSITE_RUN	ONSITE_RUNEX	1,151,073	5.00	1.40	1

On-site roadway travel treated similar to on-site construction exhaust from vehicles, assuming a release height of 5 meters to account for plume rise

Control Pathway

Dispersion Options

Titles

Shirk & Riggin Industrial Project
Operational HRA

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Rural

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Option not available

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Operations.err

Source Pathway - Source Inputs

Point Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Gas Exit Temp. [K]	Gas Exit Velocity [m/s]	Stack Inside Diameter [m]
POINT	GAS_LOAD	287363.23 Gas station Vent	4026149.43	93.14	1.00	1.00000	291.00	0.00	0.05
POINT	GAS_BREATH	287363.23 Gas station Vent	4026149.43	93.14	1.00	1.00000	289.00	0.00	0.05
POINT	DRIVE_01	285957.42 Driveway 1	4026874.12	91.25	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_03	285953.97 Driveway 3	4026603.51	91.21	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_05	285951.67 Driveway 5	4026304.19	90.96	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_15	287120.12 Driveway 15	4026131.03	92.73	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_13	286752.68 Driveway 13	4026433.90	92.40	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_08	286711.94 Driveway 8	4026591.25	92.27	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_18	287513.90 Driveway 18	4026509.92	93.48	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_19	287508.04 Driveway 19	4026283.31	93.46	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_16	287431.02 Driveway 16	4026124.59	93.24	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_07	286711.41 Driveway 7	4026739.86	92.33	3.84	0.05263	366.00	51.71	0.10

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Gas Exit Temp. [K]	Gas Exit Velocity [m/s]	Stack Inside Diameter [m]
POINT	DRIVE_17	287512.43 Driveway 17	4026685.48	93.75	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_02	285953.22 Driveway 2	4026748.71	91.29	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_04	285948.44 Driveway 4	4026450.46	91.06	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_06	286321.84 Driveway 6	4026152.22	91.94	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_09	286708.37 Driveway 9	4026436.15	92.35	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_10	286697.63 Driveway 10	4026281.06	92.52	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_11	286752.51 Driveway 11	4026739.16	92.37	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_12	286757.28 Driveway 12	4026588.85	92.34	3.84	0.05263	366.00	51.71	0.10
POINT	DRIVE_14	286747.73 Driveway 14	4026282.26	92.56	3.84	0.05263	366.00	51.71	0.10

Source Pathway - Source Inputs

Volume Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	GAS_FUEL	287382.41 Gas Station Pumps	4026140.23	93.16	1.50	1.00000	28.00	Surface-Based	6.51	1.86
VOLUME	GAS_SPILL	287382.41 Gas Station Spill	4026140.23	93.16	1.00	1.00000	28.00	Surface-Based	6.51	1.86
VOLUME	GAS_HOSE	287382.41 Gas Station - Hose	4026140.23	93.16	1.00	1.00000	28.00	Surface-Based	6.51	1.86

Polygon Area Sources

Source Type: AREA POLY

Source: ONSITE_RUN (On-Site Running Exhaust (0-10 mph))

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
90.88	5.00	8.69E-7	1.40	8	285937.16	4026132.67
		8.69E-7			285935.37	4026128.82
		8.69E-7			287533.33	4026099.12
		8.69E-7			287546.89	4026747.30
		8.69E-7			286859.53	4026760.17
		8.69E-7			286614.71	4026910.68
		8.69E-7			285953.38	4026923.93
		8.69E-7			285951.18	4026924.09

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME
Source: PARK_01N (Bldg 1 Docks - Northside)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.10074	Surface-Based	286093.10	4026846.20	91.42	3.26
			286493.06	4026840.39	91.95	3.26

Source Type: LINE VOLUME
Source: PARK_01S (Building 1 Docks and Parking South)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.10934	Surface-Based	286083.00	4026633.97	91.51	3.26
			286517.00	4026631.59	92.06	3.26

Source Type: LINE VOLUME
Source: PARK_02N (Building 2 Docks and Parking North)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.13145	Surface-Based	286097.00	4026558.46	91.55	3.26
			286619.00	4026552.55	92.16	3.26

Source Type: LINE VOLUME
Source: PARK_02S (Building 2 Docks and Parking - South)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.13145	Surface-Based	286089.60	4026336.09	91.46	3.26
			286611.50	4026327.24	92.46	3.26

Source Pathway - Source Inputs

AERMOD

Source Type: LINE VOLUME
Source: PARK_03 (Building 3 Docks and Parking)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.05283	Surface-Based	286084.16	4026258.56	91.41	3.26
			286296.21	4026249.77	92.02	3.26

Source Type: LINE VOLUME
Source: PARK_04 (Building 4 Docks and Parking)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.06634	Surface-Based	286360.00	4026249.57	92.11	3.26
			286622.00	4026245.53	92.45	3.26

Source Type: LINE VOLUME
Source: PARK_05 (Building 5 Docks and Parking)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.05774	Surface-Based	286858.88	4026242.63	92.59	3.26
			287087.85	4026237.85	92.76	3.26

Source Type: LINE VOLUME
Source: PARK_06 (Building 6 Docks and Parking)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.03563	Surface-Based	287145.00	4026233.06	92.82	3.26
			287286.00	4026235.45	93.05	3.26

Source Type: LINE VOLUME
Source: PARK_07E (Building 7 Docks and Parking East)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.07862	Surface-Based	286997.50	4026646.83	92.63	3.26
			286997.36	4026343.70	92.72	3.26

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: PARK_07W (Building 7 Docks and Parking - West)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.07862	Surface-Based	286776.72	4026657.20	92.39	3.26
			286774.32	4026363.18	92.51	3.26

Source Type: LINE VOLUME
Source: PARK_08E (Building 8 Docks and Parking East)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.07862	Surface-Based	287310.97	4026654.27	93.19	3.26
			287311.30	4026575.40	93.18	3.26
			287312.34	4026342.27	93.12	3.26

Source Type: LINE VOLUME
Source: PARK_08W (Building 8 Docks and Parking West)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.07862	Surface-Based	287085.09	4026658.12	92.72	3.26
			287084.07	4026346.12	92.81	3.26

Source Type: LINE VOLUME
Source: RIGGIN_EAST (Offsite Trucks - along Riggin - East of Shirk)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.00	1.00000	Surface-Based	289132.22	4026066.17	95.40	0.00
			288192.85	4026079.21	94.12	0.00
			287727.03	4026086.70	93.63	0.00
			287543.68	4026090.88	93.44	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: RIGGIN_WEST (Offsite Trucks- Riggin Rd from Road 80 to Shirk)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.00	1.00000		285147.83	4026140.49	89.82	0.00
			285149.92	4026132.36	89.80	0.00
			285861.53	4026125.94	90.73	0.00
			287528.20	4026089.44	93.40	0.00

Source Type: LINE VOLUME
Source: SHIRK_NOR (Off-Site Trucks - Shirk Rd N of Riggin Adjacent to Site)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.00	1.00000		287569.19	4027698.22	92.95	10.71
			287565.15	4027290.41	92.56	10.71
			287549.50	4026636.02	93.67	10.71
			287539.65	4026101.84	93.43	10.71

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_04	L0004370	286370.00	4026249.42	92.12	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004371	286390.00	4026249.11	92.14	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004372	286409.99	4026248.80	92.17	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004373	286429.99	4026248.49	92.19	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004374	286449.99	4026248.18	92.22	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004375	286469.99	4026247.88	92.24	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004376	286489.98	4026247.57	92.27	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004377	286509.98	4026247.26	92.29	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004378	286529.98	4026246.95	92.32	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004379	286549.98	4026246.64	92.34	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004380	286569.98	4026246.34	92.37	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004381	286589.97	4026246.03	92.40	3.26	0.00510	20.00	Surface-Based	9.30	1.52
	L0004382	286609.97	4026245.72	92.43	3.26	0.00510	20.00	Surface-Based	9.30	1.52

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_07E	L0004424	286997.49	4026636.83	92.63	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004425	286997.48	4026616.83	92.64	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004426	286997.48	4026596.83	92.65	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004427	286997.47	4026576.83	92.65	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004428	286997.46	4026556.83	92.66	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004429	286997.45	4026536.83	92.67	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004430	286997.44	4026516.83	92.68	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004431	286997.43	4026496.83	92.68	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004432	286997.42	4026476.83	92.69	3.26	0.00524	20.00	Surface-Based	9.30	3.04

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_07E	L0004433	286997.41	4026456.83	92.69	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004434	286997.40	4026436.83	92.71	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004435	286997.39	4026416.83	92.71	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004436	286997.38	4026396.83	92.71	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004437	286997.37	4026376.83	92.72	3.26	0.00524	20.00	Surface-Based	9.30	3.04
	L0004438	286997.36	4026356.83	92.72	3.26	0.00524	20.00	Surface-Based	9.30	3.04

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_07W	L0004439	286776.64	4026647.20	92.40	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004440	286776.47	4026627.20	92.39	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004441	286776.31	4026607.20	92.37	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004442	286776.15	4026587.20	92.36	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004443	286775.98	4026567.20	92.36	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004444	286775.82	4026547.20	92.36	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004445	286775.66	4026527.20	92.36	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004446	286775.50	4026507.21	92.37	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004447	286775.33	4026487.21	92.38	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004448	286775.17	4026467.21	92.40	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004449	286775.01	4026447.21	92.41	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004450	286774.84	4026427.21	92.43	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004451	286774.68	4026407.21	92.45	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004452	286774.52	4026387.21	92.48	3.26	0.00524	20.00	Surface-Based	9.30	1.52
	L0004453	286774.36	4026367.21	92.51	3.26	0.00524	20.00	Surface-Based	9.30	1.52

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_08E	L0004470	287311.01	4026644.27	93.19	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004471	287311.10	4026624.27	93.19	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004472	287311.18	4026604.27	93.19	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004473	287311.27	4026584.27	93.18	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004474	287311.35	4026564.27	93.18	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004475	287311.44	4026544.27	93.17	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004476	287311.53	4026524.27	93.16	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004477	287311.62	4026504.27	93.15	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004478	287311.71	4026484.27	93.14	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004479	287311.80	4026464.27	93.14	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004480	287311.89	4026444.27	93.14	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004481	287311.98	4026424.27	93.13	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004482	287312.06	4026404.27	93.13	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004483	287312.15	4026384.27	93.13	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004484	287312.24	4026364.27	93.12	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0004485	287312.33	4026344.27	93.11	3.26	0.00491	20.00	Surface-Based	9.30	3.04

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_06	L0004486	287155.00	4026233.23	92.83	3.26	0.00509	20.00	Surface-Based	9.30	3.04
	L0004487	287175.00	4026233.57	92.85	3.26	0.00509	20.00	Surface-Based	9.30	3.04
	L0004488	287194.99	4026233.91	92.88	3.26	0.00509	20.00	Surface-Based	9.30	3.04
	L0004489	287214.99	4026234.25	92.92	3.26	0.00509	20.00	Surface-Based	9.30	3.04
	L0004490	287234.99	4026234.59	92.95	3.26	0.00509	20.00	Surface-Based	9.30	3.04
	L0004491	287254.98	4026234.93	92.99	3.26	0.00509	20.00	Surface-Based	9.30	3.04
	L0004492	287274.98	4026235.27	93.02	3.26	0.00509	20.00	Surface-Based	9.30	3.04

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
RIGGIN_WEST	L0007229	285149.82	4026132.74	89.81	0.00	0.00671	16.00		7.44	1.52
	L0007230	285165.52	4026132.22	89.85	0.00	0.00671	16.00		7.44	1.52
	L0007231	285181.52	4026132.07	89.90	0.00	0.00671	16.00		7.44	1.52
	L0007232	285197.52	4026131.93	89.94	0.00	0.00671	16.00		7.44	1.52
	L0007233	285213.52	4026131.78	90.00	0.00	0.00671	16.00		7.44	1.52
	L0007234	285229.52	4026131.64	90.06	0.00	0.00671	16.00		7.44	1.52
	L0007235	285245.52	4026131.50	90.11	0.00	0.00671	16.00		7.44	1.52
	L0007236	285261.52	4026131.35	90.17	0.00	0.00671	16.00		7.44	1.52
	L0007237	285277.52	4026131.21	90.22	0.00	0.00671	16.00		7.44	1.52
	L0007238	285293.52	4026131.06	90.27	0.00	0.00671	16.00		7.44	1.52
	L0007239	285309.52	4026130.92	90.32	0.00	0.00671	16.00		7.44	1.52
	L0007240	285325.51	4026130.77	90.35	0.00	0.00671	16.00		7.44	1.52
	L0007241	285341.51	4026130.63	90.38	0.00	0.00671	16.00		7.44	1.52
	L0007242	285357.51	4026130.49	90.40	0.00	0.00671	16.00		7.44	1.52
	L0007243	285373.51	4026130.34	90.40	0.00	0.00671	16.00		7.44	1.52
	L0007244	285389.51	4026130.20	90.41	0.00	0.00671	16.00		7.44	1.52
	L0007245	285405.51	4026130.05	90.42	0.00	0.00671	16.00		7.44	1.52
	L0007246	285421.51	4026129.91	90.42	0.00	0.00671	16.00		7.44	1.52
	L0007247	285437.51	4026129.77	90.42	0.00	0.00671	16.00		7.44	1.52
	L0007248	285453.51	4026129.62	90.41	0.00	0.00671	16.00		7.44	1.52
	L0007249	285469.51	4026129.48	90.42	0.00	0.00671	16.00		7.44	1.52
	L0007250	285485.51	4026129.33	90.42	0.00	0.00671	16.00		7.44	1.52
	L0007251	285501.51	4026129.19	90.44	0.00	0.00671	16.00		7.44	1.52
	L0007252	285517.51	4026129.04	90.44	0.00	0.00671	16.00		7.44	1.52
	L0007253	285533.51	4026128.90	90.45	0.00	0.00671	16.00		7.44	1.52

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
RIGGIN_WEST	L0007254	285549.51	4026128.76	90.45	0.00	0.00671	16.00		7.44	1.52
	L0007255	285565.51	4026128.61	90.46	0.00	0.00671	16.00		7.44	1.52
	L0007256	285581.50	4026128.47	90.47	0.00	0.00671	16.00		7.44	1.52
	L0007257	285597.50	4026128.32	90.48	0.00	0.00671	16.00		7.44	1.52
	L0007258	285613.50	4026128.18	90.49	0.00	0.00671	16.00		7.44	1.52
	L0007259	285629.50	4026128.04	90.51	0.00	0.00671	16.00		7.44	1.52
	L0007260	285645.50	4026127.89	90.52	0.00	0.00671	16.00		7.44	1.52
	L0007261	285661.50	4026127.75	90.53	0.00	0.00671	16.00		7.44	1.52
	L0007262	285677.50	4026127.60	90.55	0.00	0.00671	16.00		7.44	1.52
	L0007263	285693.50	4026127.46	90.57	0.00	0.00671	16.00		7.44	1.52
	L0007264	285709.50	4026127.31	90.59	0.00	0.00671	16.00		7.44	1.52
	L0007265	285725.50	4026127.17	90.60	0.00	0.00671	16.00		7.44	1.52
	L0007266	285741.50	4026127.03	90.62	0.00	0.00671	16.00		7.44	1.52
	L0007267	285757.50	4026126.88	90.63	0.00	0.00671	16.00		7.44	1.52
	L0007268	285773.50	4026126.74	90.64	0.00	0.00671	16.00		7.44	1.52
	L0007269	285789.50	4026126.59	90.65	0.00	0.00671	16.00		7.44	1.52
	L0007270	285805.50	4026126.45	90.66	0.00	0.00671	16.00		7.44	1.52
	L0007271	285821.49	4026126.30	90.68	0.00	0.00671	16.00		7.44	1.52
	L0007272	285837.49	4026126.16	90.71	0.00	0.00671	16.00		7.44	1.52
	L0007273	285853.49	4026126.02	90.72	0.00	0.00671	16.00		7.44	1.52
	L0007274	285869.49	4026125.77	90.74	0.00	0.00671	16.00		7.44	1.52
	L0007275	285885.49	4026125.42	90.77	0.00	0.00671	16.00		7.44	1.52
	L0007276	285901.48	4026125.07	90.80	0.00	0.00671	16.00		7.44	1.52
	L0007277	285917.48	4026124.72	90.84	0.00	0.00671	16.00		7.44	1.52
	L0007278	285933.48	4026124.37	90.87	0.00	0.00671	16.00		7.44	1.52

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
RIGGIN_WEST	L0007279	285949.47	4026124.02	90.91	0.00	0.00671	16.00		7.44	1.52
	L0007280	285965.47	4026123.67	90.95	0.00	0.00671	16.00		7.44	1.52
	L0007281	285981.46	4026123.32	90.99	0.00	0.00671	16.00		7.44	1.52
	L0007282	285997.46	4026122.97	91.03	0.00	0.00671	16.00		7.44	1.52
	L0007283	286013.46	4026122.62	91.08	0.00	0.00671	16.00		7.44	1.52
	L0007284	286029.45	4026122.27	91.13	0.00	0.00671	16.00		7.44	1.52
	L0007285	286045.45	4026121.92	91.19	0.00	0.00671	16.00		7.44	1.52
	L0007286	286061.45	4026121.57	91.24	0.00	0.00671	16.00		7.44	1.52
	L0007287	286077.44	4026121.22	91.29	0.00	0.00671	16.00		7.44	1.52
	L0007288	286093.44	4026120.86	91.34	0.00	0.00671	16.00		7.44	1.52
	L0007289	286109.43	4026120.51	91.38	0.00	0.00671	16.00		7.44	1.52
	L0007290	286125.43	4026120.16	91.43	0.00	0.00671	16.00		7.44	1.52
	L0007291	286141.43	4026119.81	91.48	0.00	0.00671	16.00		7.44	1.52
	L0007292	286157.42	4026119.46	91.53	0.00	0.00671	16.00		7.44	1.52
	L0007293	286173.42	4026119.11	91.58	0.00	0.00671	16.00		7.44	1.52
	L0007294	286189.41	4026118.76	91.63	0.00	0.00671	16.00		7.44	1.52
	L0007295	286205.41	4026118.41	91.67	0.00	0.00671	16.00		7.44	1.52
	L0007296	286221.41	4026118.06	91.71	0.00	0.00671	16.00		7.44	1.52
	L0007297	286237.40	4026117.71	91.75	0.00	0.00671	16.00		7.44	1.52
	L0007298	286253.40	4026117.36	91.77	0.00	0.00671	16.00		7.44	1.52
	L0007299	286269.40	4026117.01	91.81	0.00	0.00671	16.00		7.44	1.52
	L0007300	286285.39	4026116.66	91.84	0.00	0.00671	16.00		7.44	1.52
	L0007301	286301.39	4026116.31	91.87	0.00	0.00671	16.00		7.44	1.52
	L0007302	286317.38	4026115.96	91.90	0.00	0.00671	16.00		7.44	1.52
	L0007303	286333.38	4026115.61	91.94	0.00	0.00671	16.00		7.44	1.52

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
RIGGIN_WEST	L0007304	286349.38	4026115.26	91.96	0.00	0.00671	16.00		7.44	1.52
	L0007305	286365.37	4026114.91	91.99	0.00	0.00671	16.00		7.44	1.52
	L0007306	286381.37	4026114.56	92.02	0.00	0.00671	16.00		7.44	1.52
	L0007307	286397.36	4026114.21	92.05	0.00	0.00671	16.00		7.44	1.52
	L0007308	286413.36	4026113.86	92.08	0.00	0.00671	16.00		7.44	1.52
	L0007309	286429.36	4026113.51	92.12	0.00	0.00671	16.00		7.44	1.52
	L0007310	286445.35	4026113.16	92.15	0.00	0.00671	16.00		7.44	1.52
	L0007311	286461.35	4026112.81	92.19	0.00	0.00671	16.00		7.44	1.52
	L0007312	286477.35	4026112.46	92.22	0.00	0.00671	16.00		7.44	1.52
	L0007313	286493.34	4026112.11	92.25	0.00	0.00671	16.00		7.44	1.52
	L0007314	286509.34	4026111.76	92.28	0.00	0.00671	16.00		7.44	1.52
	L0007315	286525.33	4026111.41	92.29	0.00	0.00671	16.00		7.44	1.52
	L0007316	286541.33	4026111.06	92.31	0.00	0.00671	16.00		7.44	1.52
	L0007317	286557.33	4026110.70	92.33	0.00	0.00671	16.00		7.44	1.52
	L0007318	286573.32	4026110.35	92.34	0.00	0.00671	16.00		7.44	1.52
	L0007319	286589.32	4026110.00	92.35	0.00	0.00671	16.00		7.44	1.52
	L0007320	286605.31	4026109.65	92.37	0.00	0.00671	16.00		7.44	1.52
	L0007321	286621.31	4026109.30	92.39	0.00	0.00671	16.00		7.44	1.52
	L0007322	286637.31	4026108.95	92.39	0.00	0.00671	16.00		7.44	1.52
	L0007323	286653.30	4026108.60	92.40	0.00	0.00671	16.00		7.44	1.52
	L0007324	286669.30	4026108.25	92.42	0.00	0.00671	16.00		7.44	1.52
	L0007325	286685.30	4026107.90	92.43	0.00	0.00671	16.00		7.44	1.52
	L0007326	286701.29	4026107.55	92.44	0.00	0.00671	16.00		7.44	1.52
	L0007327	286717.29	4026107.20	92.44	0.00	0.00671	16.00		7.44	1.52
	L0007328	286733.28	4026106.85	92.45	0.00	0.00671	16.00		7.44	1.52

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
RIGGIN_WEST	L0007329	286749.28	4026106.50	92.46	0.00	0.00671	16.00		7.44	1.52
	L0007330	286765.28	4026106.15	92.47	0.00	0.00671	16.00		7.44	1.52
	L0007331	286781.27	4026105.80	92.48	0.00	0.00671	16.00		7.44	1.52
	L0007332	286797.27	4026105.45	92.49	0.00	0.00671	16.00		7.44	1.52
	L0007333	286813.26	4026105.10	92.50	0.00	0.00671	16.00		7.44	1.52
	L0007334	286829.26	4026104.75	92.50	0.00	0.00671	16.00		7.44	1.52
	L0007335	286845.26	4026104.40	92.51	0.00	0.00671	16.00		7.44	1.52
	L0007336	286861.25	4026104.05	92.51	0.00	0.00671	16.00		7.44	1.52
	L0007337	286877.25	4026103.70	92.52	0.00	0.00671	16.00		7.44	1.52
	L0007338	286893.25	4026103.35	92.53	0.00	0.00671	16.00		7.44	1.52
	L0007339	286909.24	4026103.00	92.54	0.00	0.00671	16.00		7.44	1.52
	L0007340	286925.24	4026102.65	92.55	0.00	0.00671	16.00		7.44	1.52
	L0007341	286941.23	4026102.30	92.56	0.00	0.00671	16.00		7.44	1.52
	L0007342	286957.23	4026101.95	92.57	0.00	0.00671	16.00		7.44	1.52
	L0007343	286973.23	4026101.60	92.57	0.00	0.00671	16.00		7.44	1.52
	L0007344	286989.22	4026101.25	92.58	0.00	0.00671	16.00		7.44	1.52
	L0007345	287005.22	4026100.90	92.58	0.00	0.00671	16.00		7.44	1.52
	L0007346	287021.21	4026100.54	92.60	0.00	0.00671	16.00		7.44	1.52
	L0007347	287037.21	4026100.19	92.61	0.00	0.00671	16.00		7.44	1.52
	L0007348	287053.21	4026099.84	92.63	0.00	0.00671	16.00		7.44	1.52
	L0007349	287069.20	4026099.49	92.64	0.00	0.00671	16.00		7.44	1.52
	L0007350	287085.20	4026099.14	92.66	0.00	0.00671	16.00		7.44	1.52
	L0007351	287101.20	4026098.79	92.69	0.00	0.00671	16.00		7.44	1.52
	L0007352	287117.19	4026098.44	92.71	0.00	0.00671	16.00		7.44	1.52
	L0007353	287133.19	4026098.09	92.74	0.00	0.00671	16.00		7.44	1.52

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
RIGGIN_WEST	L0007354	287149.18	4026097.74	92.76	0.00	0.00671	16.00		7.44	1.52
	L0007355	287165.18	4026097.39	92.79	0.00	0.00671	16.00		7.44	1.52
	L0007356	287181.18	4026097.04	92.82	0.00	0.00671	16.00		7.44	1.52
	L0007357	287197.17	4026096.69	92.84	0.00	0.00671	16.00		7.44	1.52
	L0007358	287213.17	4026096.34	92.88	0.00	0.00671	16.00		7.44	1.52
	L0007359	287229.17	4026095.99	92.90	0.00	0.00671	16.00		7.44	1.52
	L0007360	287245.16	4026095.64	92.93	0.00	0.00671	16.00		7.44	1.52
	L0007361	287261.16	4026095.29	92.95	0.00	0.00671	16.00		7.44	1.52
	L0007362	287277.15	4026094.94	92.98	0.00	0.00671	16.00		7.44	1.52
	L0007363	287293.15	4026094.59	93.00	0.00	0.00671	16.00		7.44	1.52
	L0007364	287309.15	4026094.24	93.02	0.00	0.00671	16.00		7.44	1.52
	L0007365	287325.14	4026093.89	93.05	0.00	0.00671	16.00		7.44	1.52
	L0007366	287341.14	4026093.54	93.08	0.00	0.00671	16.00		7.44	1.52
	L0007367	287357.13	4026093.19	93.10	0.00	0.00671	16.00		7.44	1.52
	L0007368	287373.13	4026092.84	93.12	0.00	0.00671	16.00		7.44	1.52
	L0007369	287389.13	4026092.49	93.16	0.00	0.00671	16.00		7.44	1.52
	L0007370	287405.12	4026092.14	93.19	0.00	0.00671	16.00		7.44	1.52
	L0007371	287421.12	4026091.79	93.22	0.00	0.00671	16.00		7.44	1.52
	L0007372	287437.12	4026091.44	93.24	0.00	0.00671	16.00		7.44	1.52
	L0007373	287453.11	4026091.09	93.27	0.00	0.00671	16.00		7.44	1.52
	L0007374	287469.11	4026090.74	93.30	0.00	0.00671	16.00		7.44	1.52
	L0007375	287485.10	4026090.38	93.33	0.00	0.00671	16.00		7.44	1.52
	L0007376	287501.10	4026090.03	93.36	0.00	0.00671	16.00		7.44	1.52
	L0007377	287517.10	4026089.68	93.38	0.00	0.00671	16.00		7.44	1.52

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
RIGGIN_EAST	L0007677	289124.22	4026066.28	95.39	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007678	289108.22	4026066.50	95.37	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007679	289092.22	4026066.72	95.36	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007680	289076.22	4026066.94	95.35	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007681	289060.23	4026067.17	95.33	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007682	289044.23	4026067.39	95.32	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007683	289028.23	4026067.61	95.31	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007684	289012.23	4026067.83	95.29	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007685	288996.23	4026068.06	95.28	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007686	288980.23	4026068.28	95.26	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007687	288964.24	4026068.50	95.25	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007688	288948.24	4026068.72	95.24	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007689	288932.24	4026068.94	95.23	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007690	288916.24	4026069.17	95.22	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007691	288900.24	4026069.39	95.22	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007692	288884.24	4026069.61	95.21	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007693	288868.24	4026069.83	95.20	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007694	288852.25	4026070.05	95.18	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007695	288836.25	4026070.28	95.17	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007696	288820.25	4026070.50	95.16	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007697	288804.25	4026070.72	95.15	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007698	288788.25	4026070.94	95.14	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007699	288772.25	4026071.16	95.12	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007700	288756.26	4026071.39	95.10	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007701	288740.26	4026071.61	95.09	0.00	0.01010	16.00	Surface-Based	7.44	3.16

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
RIGGIN_EAST	L0007702	288724.26	4026071.83	95.06	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007703	288708.26	4026072.05	95.04	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007704	288692.26	4026072.28	95.02	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007705	288676.26	4026072.50	94.99	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007706	288660.26	4026072.72	94.96	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007707	288644.27	4026072.94	94.94	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007708	288628.27	4026073.16	94.90	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007709	288612.27	4026073.39	94.87	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007710	288596.27	4026073.61	94.84	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007711	288580.27	4026073.83	94.80	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007712	288564.27	4026074.05	94.77	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007713	288548.28	4026074.27	94.74	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007714	288532.28	4026074.50	94.70	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007715	288516.28	4026074.72	94.67	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007716	288500.28	4026074.94	94.64	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007717	288484.28	4026075.16	94.60	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007718	288468.28	4026075.39	94.57	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007719	288452.28	4026075.61	94.54	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007720	288436.29	4026075.83	94.51	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007721	288420.29	4026076.05	94.48	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007722	288404.29	4026076.27	94.45	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007723	288388.29	4026076.50	94.42	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007724	288372.29	4026076.72	94.40	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007725	288356.29	4026076.94	94.36	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007726	288340.30	4026077.16	94.34	0.00	0.01010	16.00	Surface-Based	7.44	3.16

Source Pathway - Source Inputs

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RIGGIN_EAST	L0007727	288324.30	4026077.38	94.31	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007728	288308.30	4026077.61	94.28	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007729	288292.30	4026077.83	94.27	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007730	288276.30	4026078.05	94.24	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007731	288260.30	4026078.27	94.21	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007732	288244.30	4026078.49	94.19	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007733	288228.31	4026078.72	94.17	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007734	288212.31	4026078.94	94.15	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007735	288196.31	4026079.16	94.12	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007736	288180.31	4026079.41	94.11	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007737	288164.31	4026079.67	94.08	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007738	288148.32	4026079.93	94.07	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007739	288132.32	4026080.18	94.06	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007740	288116.32	4026080.44	94.04	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007741	288100.32	4026080.70	94.03	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007742	288084.32	4026080.95	94.02	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007743	288068.33	4026081.21	94.01	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007744	288052.33	4026081.47	93.99	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007745	288036.33	4026081.73	93.98	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007746	288020.33	4026081.98	93.96	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007747	288004.33	4026082.24	93.95	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007748	287988.34	4026082.50	93.93	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007749	287972.34	4026082.76	93.92	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007750	287956.34	4026083.01	93.90	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007751	287940.34	4026083.27	93.88	0.00	0.01010	16.00	Surface-Based	7.44	3.16

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
RIGGIN_EAST	L0007752	287924.34	4026083.53	93.86	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007753	287908.35	4026083.79	93.84	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007754	287892.35	4026084.04	93.82	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007755	287876.35	4026084.30	93.81	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007756	287860.35	4026084.56	93.79	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007757	287844.35	4026084.82	93.77	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007758	287828.36	4026085.07	93.75	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007759	287812.36	4026085.33	93.73	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007760	287796.36	4026085.59	93.71	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007761	287780.36	4026085.84	93.70	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007762	287764.36	4026086.10	93.68	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007763	287748.37	4026086.36	93.66	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007764	287732.37	4026086.62	93.65	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007765	287716.37	4026086.95	93.64	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007766	287700.38	4026087.31	93.63	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007767	287684.38	4026087.67	93.62	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007768	287668.38	4026088.04	93.60	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007769	287652.39	4026088.40	93.57	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007770	287636.39	4026088.77	93.54	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007771	287620.40	4026089.13	93.53	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007772	287604.40	4026089.49	93.51	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007773	287588.41	4026089.86	93.49	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007774	287572.41	4026090.22	93.48	0.00	0.01010	16.00	Surface-Based	7.44	3.16
	L0007775	287556.41	4026090.59	93.44	0.00	0.01010	16.00	Surface-Based	7.44	3.16

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SHIRK_NOR	L0008377	287569.11	4027690.22	92.95	10.71	0.01000	16.00		7.44	9.96
	L0008378	287568.96	4027674.22	92.95	10.71	0.01000	16.00		7.44	9.96
	L0008379	287568.80	4027658.22	92.94	10.71	0.01000	16.00		7.44	9.96
	L0008380	287568.64	4027642.22	92.93	10.71	0.01000	16.00		7.44	9.96
	L0008381	287568.48	4027626.22	92.93	10.71	0.01000	16.00		7.44	9.96
	L0008382	287568.32	4027610.22	92.92	10.71	0.01000	16.00		7.44	9.96
	L0008383	287568.16	4027594.22	92.92	10.71	0.01000	16.00		7.44	9.96
	L0008384	287568.01	4027578.22	92.90	10.71	0.01000	16.00		7.44	9.96
	L0008385	287567.85	4027562.23	92.88	10.71	0.01000	16.00		7.44	9.96
	L0008386	287567.69	4027546.23	92.87	10.71	0.01000	16.00		7.44	9.96
	L0008387	287567.53	4027530.23	92.86	10.71	0.01000	16.00		7.44	9.96
	L0008388	287567.37	4027514.23	92.85	10.71	0.01000	16.00		7.44	9.96
	L0008389	287567.21	4027498.23	92.83	10.71	0.01000	16.00		7.44	9.96
	L0008390	287567.05	4027482.23	92.81	10.71	0.01000	16.00		7.44	9.96
	L0008391	287566.90	4027466.23	92.80	10.71	0.01000	16.00		7.44	9.96
	L0008392	287566.74	4027450.23	92.79	10.71	0.01000	16.00		7.44	9.96
	L0008393	287566.58	4027434.23	92.77	10.71	0.01000	16.00		7.44	9.96
	L0008394	287566.42	4027418.23	92.75	10.71	0.01000	16.00		7.44	9.96
	L0008395	287566.26	4027402.23	92.73	10.71	0.01000	16.00		7.44	9.96
	L0008396	287566.10	4027386.23	92.70	10.71	0.01000	16.00		7.44	9.96
	L0008397	287565.95	4027370.24	92.68	10.71	0.01000	16.00		7.44	9.96
	L0008398	287565.79	4027354.24	92.66	10.71	0.01000	16.00		7.44	9.96
	L0008399	287565.63	4027338.24	92.64	10.71	0.01000	16.00		7.44	9.96
	L0008400	287565.47	4027322.24	92.61	10.71	0.01000	16.00		7.44	9.96
	L0008401	287565.31	4027306.24	92.59	10.71	0.01000	16.00		7.44	9.96

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SHIRK_NOR	L0008402	287565.15	4027290.24	92.56	10.71	0.01000	16.00		7.44	9.96
	L0008403	287564.77	4027274.24	92.54	10.71	0.01000	16.00		7.44	9.96
	L0008404	287564.38	4027258.25	92.50	10.71	0.01000	16.00		7.44	9.96
	L0008405	287564.00	4027242.25	92.47	10.71	0.01000	16.00		7.44	9.96
	L0008406	287563.62	4027226.26	92.43	10.71	0.01000	16.00		7.44	9.96
	L0008407	287563.24	4027210.26	92.39	10.71	0.01000	16.00		7.44	9.96
	L0008408	287562.85	4027194.27	92.35	10.71	0.01000	16.00		7.44	9.96
	L0008409	287562.47	4027178.27	92.32	10.71	0.01000	16.00		7.44	9.96
	L0008410	287562.09	4027162.28	92.29	10.71	0.01000	16.00		7.44	9.96
	L0008411	287561.71	4027146.28	92.29	10.71	0.01000	16.00		7.44	9.96
	L0008412	287561.32	4027130.28	92.35	10.71	0.01000	16.00		7.44	9.96
	L0008413	287560.94	4027114.29	92.43	10.71	0.01000	16.00		7.44	9.96
	L0008414	287560.56	4027098.29	92.52	10.71	0.01000	16.00		7.44	9.96
	L0008415	287560.17	4027082.30	92.62	10.71	0.01000	16.00		7.44	9.96
	L0008416	287559.79	4027066.30	92.72	10.71	0.01000	16.00		7.44	9.96
	L0008417	287559.41	4027050.31	92.82	10.71	0.01000	16.00		7.44	9.96
	L0008418	287559.03	4027034.31	92.92	10.71	0.01000	16.00		7.44	9.96
	L0008419	287558.64	4027018.32	93.02	10.71	0.01000	16.00		7.44	9.96
	L0008420	287558.26	4027002.32	93.11	10.71	0.01000	16.00		7.44	9.96
	L0008421	287557.88	4026986.33	93.22	10.71	0.01000	16.00		7.44	9.96
	L0008422	287557.50	4026970.33	93.31	10.71	0.01000	16.00		7.44	9.96
	L0008423	287557.11	4026954.34	93.41	10.71	0.01000	16.00		7.44	9.96
	L0008424	287556.73	4026938.34	93.52	10.71	0.01000	16.00		7.44	9.96
	L0008425	287556.35	4026922.34	93.64	10.71	0.01000	16.00		7.44	9.96
	L0008426	287555.96	4026906.35	93.76	10.71	0.01000	16.00		7.44	9.96

Source Pathway - Source Inputs

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SHIRK_NOR	L0008427	287555.58	4026890.35	93.81	10.71	0.01000	16.00		7.44	9.96
	L0008428	287555.20	4026874.36	93.82	10.71	0.01000	16.00		7.44	9.96
	L0008429	287554.82	4026858.36	93.82	10.71	0.01000	16.00		7.44	9.96
	L0008430	287554.43	4026842.37	93.82	10.71	0.01000	16.00		7.44	9.96
	L0008431	287554.05	4026826.37	93.82	10.71	0.01000	16.00		7.44	9.96
	L0008432	287553.67	4026810.38	93.81	10.71	0.01000	16.00		7.44	9.96
	L0008433	287553.29	4026794.38	93.80	10.71	0.01000	16.00		7.44	9.96
	L0008434	287552.90	4026778.39	93.80	10.71	0.01000	16.00		7.44	9.96
	L0008435	287552.52	4026762.39	93.81	10.71	0.01000	16.00		7.44	9.96
	L0008436	287552.14	4026746.39	93.79	10.71	0.01000	16.00		7.44	9.96
	L0008437	287551.75	4026730.40	93.79	10.71	0.01000	16.00		7.44	9.96
	L0008438	287551.37	4026714.40	93.79	10.71	0.01000	16.00		7.44	9.96
	L0008439	287550.99	4026698.41	93.78	10.71	0.01000	16.00		7.44	9.96
	L0008440	287550.61	4026682.41	93.76	10.71	0.01000	16.00		7.44	9.96
	L0008441	287550.22	4026666.42	93.74	10.71	0.01000	16.00		7.44	9.96
	L0008442	287549.84	4026650.42	93.71	10.71	0.01000	16.00		7.44	9.96
	L0008443	287549.47	4026634.43	93.68	10.71	0.01000	16.00		7.44	9.96
	L0008444	287549.17	4026618.43	93.64	10.71	0.01000	16.00		7.44	9.96
	L0008445	287548.88	4026602.43	93.61	10.71	0.01000	16.00		7.44	9.96
	L0008446	287548.58	4026586.43	93.59	10.71	0.01000	16.00		7.44	9.96
	L0008447	287548.29	4026570.44	93.57	10.71	0.01000	16.00		7.44	9.96
	L0008448	287547.99	4026554.44	93.54	10.71	0.01000	16.00		7.44	9.96
	L0008449	287547.70	4026538.44	93.53	10.71	0.01000	16.00		7.44	9.96
	L0008450	287547.40	4026522.45	93.52	10.71	0.01000	16.00		7.44	9.96
	L0008451	287547.11	4026506.45	93.51	10.71	0.01000	16.00		7.44	9.96

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SHIRK_NOR	L0008452	287546.81	4026490.45	93.51	10.71	0.01000	16.00		7.44	9.96
	L0008453	287546.52	4026474.45	93.52	10.71	0.01000	16.00		7.44	9.96
	L0008454	287546.22	4026458.46	93.52	10.71	0.01000	16.00		7.44	9.96
	L0008455	287545.93	4026442.46	93.52	10.71	0.01000	16.00		7.44	9.96
	L0008456	287545.63	4026426.46	93.52	10.71	0.01000	16.00		7.44	9.96
	L0008457	287545.34	4026410.46	93.53	10.71	0.01000	16.00		7.44	9.96
	L0008458	287545.04	4026394.47	93.54	10.71	0.01000	16.00		7.44	9.96
	L0008459	287544.75	4026378.47	93.54	10.71	0.01000	16.00		7.44	9.96
	L0008460	287544.45	4026362.47	93.53	10.71	0.01000	16.00		7.44	9.96
	L0008461	287544.16	4026346.48	93.53	10.71	0.01000	16.00		7.44	9.96
	L0008462	287543.86	4026330.48	93.54	10.71	0.01000	16.00		7.44	9.96
	L0008463	287543.57	4026314.48	93.54	10.71	0.01000	16.00		7.44	9.96
	L0008464	287543.27	4026298.48	93.54	10.71	0.01000	16.00		7.44	9.96
	L0008465	287542.98	4026282.49	93.53	10.71	0.01000	16.00		7.44	9.96
	L0008466	287542.68	4026266.49	93.53	10.71	0.01000	16.00		7.44	9.96
	L0008467	287542.39	4026250.49	93.52	10.71	0.01000	16.00		7.44	9.96
	L0008468	287542.09	4026234.49	93.51	10.71	0.01000	16.00		7.44	9.96
	L0008469	287541.80	4026218.50	93.50	10.71	0.01000	16.00		7.44	9.96
	L0008470	287541.50	4026202.50	93.50	10.71	0.01000	16.00		7.44	9.96
	L0008471	287541.21	4026186.50	93.49	10.71	0.01000	16.00		7.44	9.96
	L0008472	287540.91	4026170.51	93.48	10.71	0.01000	16.00		7.44	9.96
	L0008473	287540.62	4026154.51	93.46	10.71	0.01000	16.00		7.44	9.96
	L0008474	287540.32	4026138.51	93.46	10.71	0.01000	16.00		7.44	9.96
	L0008475	287540.03	4026122.51	93.44	10.71	0.01000	16.00		7.44	9.96
	L0008476	287539.73	4026106.52	93.44	10.71	0.01000	16.00		7.44	9.96

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PARK_03	L0008477	286094.16	4026258.15	91.44	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008478	286114.14	4026257.32	91.52	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008479	286134.12	4026256.49	91.60	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008480	286154.10	4026255.66	91.67	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008481	286174.09	4026254.83	91.75	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008482	286194.07	4026254.01	91.80	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008483	286214.05	4026253.18	91.87	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008484	286234.04	4026252.35	91.93	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008485	286254.02	4026251.52	91.97	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008486	286274.00	4026250.69	92.00	3.26	0.00480	20.00	Surface-Based	9.30	3.04
	L0008487	286293.98	4026249.86	92.03	3.26	0.00480	20.00	Surface-Based	9.30	3.04

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PARK_01S	L0008574	286093.00	4026633.91	91.54	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008575	286113.00	4026633.80	91.59	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008576	286133.00	4026633.69	91.63	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008577	286153.00	4026633.58	91.69	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008578	286173.00	4026633.47	91.73	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008579	286193.00	4026633.36	91.78	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008580	286213.00	4026633.25	91.83	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008581	286233.00	4026633.14	91.86	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008582	286253.00	4026633.03	91.90	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008583	286273.00	4026632.93	91.93	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008584	286293.00	4026632.82	91.96	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008585	286313.00	4026632.71	91.98	3.26	0.00497	20.00	Surface-Based	9.30	3.04

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PARK_01S	L0008586	286333.00	4026632.60	92.00	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008587	286353.00	4026632.49	92.02	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008588	286373.00	4026632.38	92.02	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008589	286393.00	4026632.27	92.02	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008590	286413.00	4026632.16	92.02	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008591	286432.99	4026632.05	92.03	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008592	286452.99	4026631.94	92.03	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008593	286472.99	4026631.83	92.04	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008594	286492.99	4026631.72	92.04	3.26	0.00497	20.00	Surface-Based	9.30	3.04
	L0008595	286512.99	4026631.61	92.06	3.26	0.00497	20.00	Surface-Based	9.30	3.04

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PARK_02N	L0008596	286107.00	4026558.34	91.58	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008597	286127.00	4026558.12	91.65	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008598	286147.00	4026557.89	91.71	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008599	286167.00	4026557.67	91.79	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008600	286186.99	4026557.44	91.84	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008601	286206.99	4026557.21	91.90	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008602	286226.99	4026556.99	91.96	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008603	286246.99	4026556.76	92.00	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008604	286266.99	4026556.54	92.04	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008605	286286.99	4026556.31	92.08	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008606	286306.99	4026556.08	92.10	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008607	286326.99	4026555.86	92.13	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008608	286346.98	4026555.63	92.15	3.26	0.00506	20.00	Surface-Based	9.30	3.04

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PARK_02N	L0008609	286366.98	4026555.40	92.16	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008610	286386.98	4026555.18	92.16	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008611	286406.98	4026554.95	92.16	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008612	286426.98	4026554.73	92.16	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008613	286446.98	4026554.50	92.16	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008614	286466.98	4026554.27	92.17	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008615	286486.98	4026554.05	92.16	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008616	286506.97	4026553.82	92.16	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008617	286526.97	4026553.59	92.16	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008618	286546.97	4026553.37	92.15	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008619	286566.97	4026553.14	92.15	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008620	286586.97	4026552.92	92.15	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008621	286606.97	4026552.69	92.15	3.26	0.00506	20.00	Surface-Based	9.30	3.04

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_02S	L0008681	286099.60	4026335.92	91.51	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008682	286119.60	4026335.58	91.58	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008683	286139.59	4026335.24	91.67	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008684	286159.59	4026334.90	91.74	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008685	286179.59	4026334.56	91.81	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008686	286199.58	4026334.22	91.88	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008687	286219.58	4026333.89	91.95	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008688	286239.58	4026333.55	92.01	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008689	286259.58	4026333.21	92.07	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008690	286279.57	4026332.87	92.11	3.26	0.00506	20.00	Surface-Based	9.30	3.04

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_02S	L0008691	286299.57	4026332.53	92.16	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008692	286319.57	4026332.19	92.19	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008693	286339.56	4026331.85	92.23	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008694	286359.56	4026331.51	92.25	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008695	286379.56	4026331.17	92.27	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008696	286399.56	4026330.84	92.27	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008697	286419.55	4026330.50	92.29	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008698	286439.55	4026330.16	92.31	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008699	286459.55	4026329.82	92.32	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008700	286479.54	4026329.48	92.34	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008701	286499.54	4026329.14	92.37	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008702	286519.54	4026328.80	92.39	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008703	286539.54	4026328.46	92.40	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008704	286559.53	4026328.13	92.42	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008705	286579.53	4026327.79	92.44	3.26	0.00506	20.00	Surface-Based	9.30	3.04
	L0008706	286599.53	4026327.45	92.45	3.26	0.00506	20.00	Surface-Based	9.30	3.04

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_05	L0008707	286868.88	4026242.42	92.60	3.26	0.00525	20.00	Surface-Based	9.30	3.04
	L0008708	286888.87	4026242.01	92.62	3.26	0.00525	20.00	Surface-Based	9.30	3.04
	L0008709	286908.87	4026241.59	92.64	3.26	0.00525	20.00	Surface-Based	9.30	3.04
	L0008710	286928.87	4026241.17	92.66	3.26	0.00525	20.00	Surface-Based	9.30	3.04
	L0008711	286948.86	4026240.75	92.67	3.26	0.00525	20.00	Surface-Based	9.30	3.04
	L0008712	286968.86	4026240.33	92.69	3.26	0.00525	20.00	Surface-Based	9.30	3.04
	L0008713	286988.85	4026239.92	92.71	3.26	0.00525	20.00	Surface-Based	9.30	3.04

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_05	L0008714	287008.85	4026239.50	92.72	3.26	0.00525	20.00	Surface-Based	9.30	3.04
	L0008715	287028.84	4026239.08	92.73	3.26	0.00525	20.00	Surface-Based	9.30	3.04
	L0008716	287048.84	4026238.66	92.74	3.26	0.00525	20.00	Surface-Based	9.30	3.04
	L0008717	287068.83	4026238.24	92.75	3.26	0.00525	20.00	Surface-Based	9.30	3.04

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_08W	L0008718	287085.06	4026648.12	92.72	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008719	287084.99	4026628.12	92.74	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008720	287084.93	4026608.12	92.75	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008721	287084.86	4026588.12	92.76	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008722	287084.80	4026568.12	92.76	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008723	287084.73	4026548.12	92.78	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008724	287084.67	4026528.12	92.79	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008725	287084.60	4026508.12	92.80	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008726	287084.53	4026488.12	92.80	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008727	287084.47	4026468.12	92.81	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008728	287084.40	4026448.12	92.82	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008729	287084.34	4026428.12	92.82	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008730	287084.27	4026408.12	92.82	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008731	287084.21	4026388.12	92.82	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008732	287084.14	4026368.12	92.81	3.26	0.00491	20.00	Surface-Based	9.30	3.04
	L0008733	287084.08	4026348.12	92.81	3.26	0.00491	20.00	Surface-Based	9.30	3.04

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
PARK_01N	L0008734	286103.10	4026846.05	91.44	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008735	286123.10	4026845.76	91.46	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008736	286143.09	4026845.47	91.49	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008737	286163.09	4026845.18	91.52	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008738	286183.09	4026844.89	91.56	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008739	286203.09	4026844.60	91.58	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008740	286223.09	4026844.31	91.61	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008741	286243.08	4026844.02	91.64	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008742	286263.08	4026843.73	91.66	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008743	286283.08	4026843.44	91.68	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008744	286303.08	4026843.15	91.70	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008745	286323.08	4026842.86	91.74	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008746	286343.07	4026842.56	91.76	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008747	286363.07	4026842.27	91.78	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008748	286383.07	4026841.98	91.80	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008749	286403.07	4026841.69	91.83	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008750	286423.07	4026841.40	91.85	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008751	286443.06	4026841.11	91.87	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008752	286463.06	4026840.82	91.89	3.26	0.00504	20.00	Surface-Based	9.30	3.04
	L0008753	286483.06	4026840.53	91.93	3.26	0.00504	20.00	Surface-Based	9.30	3.04

Source Pathway

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Source Pathway

Source Groups

Source Group ID: SHIRK_NO	List of Sources in Group (Source Range or Single Sources)
	SHIRK_NOR

Source Group ID: RIGGIN_W	List of Sources in Group (Source Range or Single Sources)
	RIGGIN_WEST

Source Group ID: RIGGIN_E	List of Sources in Group (Source Range or Single Sources)
	RIGGIN_EAST

Source Group ID: ONSITE	List of Sources in Group (Source Range or Single Sources)
	ONSITE_RUN

Source Group ID: IDLE_DVW	List of Sources in Group (Source Range or Single Sources)
	DRIVE_01
	DRIVE_03
	DRIVE_05
	DRIVE_15
	DRIVE_13
	DRIVE_08
	DRIVE_18
	DRIVE_19
	DRIVE_16
	DRIVE_07
	DRIVE_17
	DRIVE_02
	DRIVE_04
	DRIVE_06
	DRIVE_09
	DRIVE_10
	DRIVE_11
	DRIVE_12
	DRIVE_14

Source Group ID: IDLE_DOC	List of Sources in Group (Source Range or Single Sources)
	PARK_01N
	PARK_01S
	PARK_02N
	PARK_02S
	PARK_03
	PARK_04
	PARK_07W
	PARK_07E
	PARK_05
	PARK_08W
	PARK_08E

	PARK_06

Source Group ID: **GDF**	List of Sources in Group (Source Range or Single Sources)
	GAS_FUEL
	GAS_SPILL
	GAS_HOSE
	GAS_LOAD
	GAS_BREATH

Source Group ID: **GAS_SPIL**	List of Sources in Group (Source Range or Single Sources)
	GAS_SPILL

Source Group ID: **GAS_REFU**	List of Sources in Group (Source Range or Single Sources)
	GAS_FUEL

Source Group ID: **GAS_LOAD**	List of Sources in Group (Source Range or Single Sources)
	GAS_LOAD

Source Group ID: **GAS_HOSE**	List of Sources in Group (Source Range or Single Sources)
	GAS_HOSE

Source Group ID: **GAS_BREA**	List of Sources in Group (Source Range or Single Sources)
	GAS_BREATH

Variable Emissions

Hourly Emission Rate Variation

Scenario: GDF_VAR

Source ID:	**GAS_FUEL**					
1 to 6	0.36	0.36	0.36	0.36	0.36	1.46
7 to 12	1.46	1.46	1.46	1.46	1.46	1.46
13 to 18	1.46	1.46	1.46	1.46	1.46	1.46
19 to 24	1.46	0.36	0.36	0.36	0.36	0.36
Source ID:	**GAS_SPILL**					
1 to 6	0.36	0.36	0.36	0.36	0.36	1.46
7 to 12	1.46	1.46	1.46	1.46	1.46	1.46
13 to 18	1.46	1.46	1.46	1.46	1.46	1.46
19 to 24	1.46	0.36	0.36	0.36	0.36	0.36
Source ID:	**GAS_HOSE**					
1 to 6	0.36	0.36	0.36	0.36	0.36	1.46
7 to 12	1.46	1.46	1.46	1.46	1.46	1.46
13 to 18	1.46	1.46	1.46	1.46	1.46	1.46
19 to 24	1.46	0.36	0.36	0.36	0.36	0.36
Source ID:	**GAS_LOAD**					
1 to 6	0.36	0.36	0.36	0.36	0.36	1.46
7 to 12	1.46	1.46	1.46	1.46	1.46	1.46
13 to 18	1.46	1.46	1.46	1.46	1.46	1.46
19 to 24	1.46	0.36	0.36	0.36	0.36	0.36
Source ID:	**GAS_BREATH**					
1 to 6	0.36	0.36	0.36	0.36	0.36	1.46
7 to 12	1.46	1.46	1.46	1.46	1.46	1.46
13 to 18	1.46	1.46	1.46	1.46	1.46	1.46
19 to 24	1.46	0.36	0.36	0.36	0.36	0.36

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	287571.61	4026059.70	RES	93.46	
2	287591.26	4026057.63	RES	93.47	
3	287608.83	4026059.70	RES	93.49	
4	287627.45	4026057.63	RES	93.51	
5	287645.03	4026058.67	RES	93.54	
6	287668.81	4026057.63	RES	93.58	
7	287685.36	4026045.23	RES	93.59	
8	287707.07	4026046.26	RES	93.61	
9	287727.75	4026047.29	RES	93.62	
10	287768.08	4026043.16	RES	93.66	
11	287785.66	4026043.16	RES	93.68	
12	287812.55	4026043.16	RES	93.72	
13	287832.19	4026044.19	RES	93.74	
14	287878.73	4026049.36	RES	93.80	
15	287895.27	4026054.53	RES	93.82	
16	287914.92	4026048.33	RES	93.84	
17	287571.61	4026021.44	RES	93.43	
18	287572.64	4025999.73	RES	93.42	
19	287570.57	4025981.11	RES	93.40	
20	287569.54	4025962.50	RES	93.39	
21	287566.44	4025939.75	RES	93.38	
22	287601.60	4026020.41	RES	93.46	
23	287622.28	4026023.51	RES	93.49	
24	287639.86	4026023.51	RES	93.51	
25	287659.50	4026025.58	RES	93.54	
26	287607.80	4025997.66	RES	93.45	
27	287604.70	4025982.15	RES	93.44	
28	287632.62	4025979.05	RES	93.47	
29	287653.30	4025981.11	RES	93.51	
30	287626.41	4025946.99	RES	93.45	

31	287661.57	4025945.96	RES	93.50
32	287685.36	4025990.42	RES	93.55
33	287702.93	4025987.32	RES	93.57
34	287725.68	4025989.39	RES	93.59
35	287746.37	4025988.35	RES	93.61
36	287763.94	4025985.25	RES	93.63
37	287772.22	4025953.19	RES	93.62
38	287726.72	4025951.13	RES	93.57
39	287703.97	4025953.19	RES	93.55
40	287683.29	4025955.26	RES	93.53
41	287575.74	4025898.39	RES	93.37
42	287578.85	4025875.64	RES	93.37
43	287578.85	4025851.86	RES	93.37
44	287577.81	4025828.07	RES	93.37
45	287584.02	4025805.32	RES	93.38
46	287622.28	4025810.49	RES	93.42
47	287627.45	4025850.82	RES	93.42
48	287626.41	4025872.54	RES	93.42
49	287635.72	4025897.35	RES	93.45
50	287664.67	4025897.35	RES	93.48
51	287689.49	4025901.49	RES	93.51
52	287709.14	4025893.22	RES	93.53
53	287727.75	4025897.35	RES	93.55
54	287752.57	4025892.18	RES	93.57
55	287772.22	4025896.32	RES	93.60
56	287798.07	4025899.42	RES	93.64
57	287817.72	4025897.35	RES	93.66
58	287837.36	4025899.42	RES	93.69
59	287857.01	4025899.42	RES	93.71
60	287881.83	4025891.15	RES	93.73
61	287904.58	4025893.22	RES	93.74
62	287923.19	4025893.22	RES	93.75
63	287921.12	4025948.02	RES	93.80
64	287895.27	4025950.09	RES	93.79
65	287878.73	4025943.89	RES	93.77
66	287855.98	4025942.85	RES	93.74
67	287837.36	4025945.96	RES	93.72
68	287810.48	4025948.02	RES	93.68

69	287812.55	4025992.49	RES	93.70
70	287833.23	4025991.45	RES	93.73
71	287852.87	4025990.42	RES	93.76
72	287876.66	4025988.35	RES	93.79
73	287891.13	4025986.28	RES	93.81
74	287916.99	4025991.45	RES	93.83
75	287643.99	4025808.42	RES	93.44
76	287664.67	4025808.42	RES	93.46
77	287692.59	4025809.46	RES	93.50
78	287709.14	4025814.63	RES	93.51
79	287729.82	4025812.56	RES	93.52
80	287751.54	4025810.49	RES	93.54
81	287771.18	4025808.42	RES	93.56
82	287790.83	4025811.53	RES	93.58
83	287816.68	4025806.36	RES	93.60
84	287838.40	4025812.56	RES	93.62
85	287862.18	4025809.46	RES	93.64
86	287879.76	4025805.32	RES	93.65
87	287901.48	4025805.32	RES	93.66
88	287920.09	4025805.32	RES	93.68
89	287921.12	4025852.89	RES	93.72
90	287899.41	4025852.89	RES	93.70
91	287878.73	4025854.96	RES	93.69
92	287860.11	4025854.96	RES	93.67
93	287834.26	4025857.03	RES	93.66
94	287815.65	4025859.09	RES	93.64
95	287793.93	4025857.03	RES	93.61
96	287773.25	4025863.23	RES	93.59
97	287751.54	4025864.26	RES	93.56
98	287730.85	4025862.20	RES	93.54
99	287712.24	4025862.20	RES	93.52
100	287687.42	4025858.06	RES	93.50
101	287665.71	4025859.09	RES	93.48
102	287962.23	4026054.51	RES	93.90
103	287985.57	4026052.90	RES	93.92
104	288008.12	4026049.68	RES	93.93
105	288031.47	4026048.88	RES	93.95
106	288051.60	4026043.24	RES	93.97

107	288078.16	4026044.05	RES	93.99
108	288092.66	4026042.44	RES	94.00
109	288110.37	4026045.66	RES	94.01
110	288137.74	4026043.24	RES	94.04
111	288154.65	4026046.46	RES	94.06
112	288177.19	4026042.44	RES	94.09
113	288223.09	4026042.44	RES	94.15
114	288264.15	4026046.46	RES	94.22
115	288294.74	4026041.63	RES	94.27
116	287966.25	4025994.93	RES	93.87
117	287984.77	4025994.93	RES	93.88
118	288008.92	4025997.35	RES	93.90
119	288028.25	4025996.54	RES	93.91
120	288051.60	4025995.74	RES	93.92
121	288073.33	4025998.96	RES	93.95
122	288091.85	4025998.15	RES	93.96
123	288113.59	4025997.35	RES	93.99
124	288153.04	4025997.35	RES	94.04
125	288178.00	4025999.76	RES	94.08
126	288195.71	4025997.35	RES	94.11
127	288231.14	4025999.76	RES	94.16
128	288248.05	4025998.96	RES	94.19
129	288299.57	4026015.87	RES	94.28
130	288305.21	4025994.13	RES	94.29
131	288303.60	4025971.58	RES	94.29
132	288301.18	4025949.04	RES	94.28
133	288298.77	4025928.11	RES	94.26
134	288297.96	4025908.79	RES	94.25
135	287966.25	4025949.04	RES	93.83
136	287985.57	4025949.04	RES	93.84
137	288009.73	4025949.85	RES	93.86
138	288027.44	4025946.63	RES	93.87
139	288052.40	4025945.82	RES	93.89
140	288074.14	4025947.43	RES	93.92
141	288097.49	4025945.82	RES	93.95
142	288117.62	4025949.85	RES	93.97
143	288175.58	4025950.65	RES	94.07
144	288252.88	4025973.20	RES	94.20

145	288255.29	4025953.87	RES	94.20
146	288252.07	4025929.72	RES	94.19
147	288200.54	4025946.63	RES	94.11
148	288219.06	4025924.08	RES	94.13
149	285750.00	4025350.00	UCART1	90.33
150	285850.00	4025350.00	UCART1	90.39
151	285950.00	4025350.00	UCART1	90.47
152	286050.00	4025350.00	UCART1	90.61
153	286150.00	4025350.00	UCART1	90.74
154	286250.00	4025350.00	UCART1	90.90
155	286350.00	4025350.00	UCART1	91.03
156	286450.00	4025350.00	UCART1	91.15
157	286550.00	4025350.00	UCART1	91.37
158	286650.00	4025350.00	UCART1	91.61
159	286750.00	4025350.00	UCART1	91.85
160	286850.00	4025350.00	UCART1	92.05
161	286950.00	4025350.00	UCART1	92.23
162	287050.00	4025350.00	UCART1	92.40
163	287150.00	4025350.00	UCART1	92.60
164	287250.00	4025350.00	UCART1	92.81
165	287350.00	4025350.00	UCART1	93.01
166	287450.00	4025350.00	UCART1	93.21
167	287550.00	4025350.00	UCART1	93.43
168	287650.00	4025350.00	UCART1	93.65
169	287750.00	4025350.00	UCART1	93.82
170	285550.00	4025450.00	UCART1	90.19
171	285650.00	4025450.00	UCART1	90.30
172	285750.00	4025450.00	UCART1	90.37
173	285850.00	4025450.00	UCART1	90.45
174	285950.00	4025450.00	UCART1	90.51
175	286050.00	4025450.00	UCART1	90.59
176	286150.00	4025450.00	UCART1	90.70
177	286250.00	4025450.00	UCART1	90.78
178	286350.00	4025450.00	UCART1	90.89
179	286450.00	4025450.00	UCART1	91.10
180	286550.00	4025450.00	UCART1	91.40
181	286650.00	4025450.00	UCART1	91.68
182	286750.00	4025450.00	UCART1	91.91

183	286850.00	4025450.00	UCART1	92.08
184	286950.00	4025450.00	UCART1	92.27
185	287050.00	4025450.00	UCART1	92.43
186	287150.00	4025450.00	UCART1	92.61
187	287250.00	4025450.00	UCART1	92.81
188	287350.00	4025450.00	UCART1	93.01
189	287450.00	4025450.00	UCART1	93.21
190	287550.00	4025450.00	UCART1	93.42
191	287650.00	4025450.00	UCART1	93.61
192	287750.00	4025450.00	UCART1	93.76
193	287850.00	4025450.00	UCART1	93.81
194	287950.00	4025450.00	UCART1	93.84
195	285450.00	4025550.00	UCART1	90.02
196	285550.00	4025550.00	UCART1	90.26
197	285650.00	4025550.00	UCART1	90.40
198	285750.00	4025550.00	UCART1	90.47
199	285850.00	4025550.00	UCART1	90.55
200	285950.00	4025550.00	UCART1	90.64
201	286050.00	4025550.00	UCART1	90.65
202	286150.00	4025550.00	UCART1	90.67
203	286250.00	4025550.00	UCART1	90.69
204	286350.00	4025550.00	UCART1	90.80
205	286450.00	4025550.00	UCART1	91.15
206	286550.00	4025550.00	UCART1	91.48
207	286650.00	4025550.00	UCART1	91.74
208	286750.00	4025550.00	UCART1	91.93
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210	286950.00	4025550.00	UCART1	92.29
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212	287150.00	4025550.00	UCART1	92.62
213	287250.00	4025550.00	UCART1	92.80
214	287350.00	4025550.00	UCART1	93.01
215	287450.00	4025550.00	UCART1	93.19
216	287550.00	4025550.00	UCART1	93.40
217	287650.00	4025550.00	UCART1	93.55
218	287750.00	4025550.00	UCART1	93.65
219	287850.00	4025550.00	UCART1	93.69
220	287950.00	4025550.00	UCART1	93.73

221	288050.00	4025550.00	UCART1	93.82
222	285350.00	4025650.00	UCART1	89.63
223	285450.00	4025650.00	UCART1	90.15
224	285550.00	4025650.00	UCART1	90.41
225	285650.00	4025650.00	UCART1	90.50
226	285750.00	4025650.00	UCART1	90.56
227	285850.00	4025650.00	UCART1	90.63
228	285950.00	4025650.00	UCART1	90.73
229	286050.00	4025650.00	UCART1	90.86
230	286150.00	4025650.00	UCART1	90.88
231	286250.00	4025650.00	UCART1	90.94
232	286350.00	4025650.00	UCART1	90.98
233	286450.00	4025650.00	UCART1	91.25
234	286550.00	4025650.00	UCART1	91.57
235	286650.00	4025650.00	UCART1	91.80
236	286750.00	4025650.00	UCART1	91.98
237	286850.00	4025650.00	UCART1	92.11
238	286950.00	4025650.00	UCART1	92.28
239	287050.00	4025650.00	UCART1	92.46
240	287150.00	4025650.00	UCART1	92.63
241	287250.00	4025650.00	UCART1	92.81
242	287350.00	4025650.00	UCART1	92.99
243	287450.00	4025650.00	UCART1	93.19
244	287550.00	4025650.00	UCART1	93.37
245	287650.00	4025650.00	UCART1	93.49
246	287750.00	4025650.00	UCART1	93.55
247	287850.00	4025650.00	UCART1	93.60
248	287950.00	4025650.00	UCART1	93.68
249	288050.00	4025650.00	UCART1	93.79
250	288150.00	4025650.00	UCART1	93.93
251	285250.00	4025750.00	UCART1	89.37
252	285350.00	4025750.00	UCART1	89.91
253	285450.00	4025750.00	UCART1	90.40
254	285550.00	4025750.00	UCART1	90.59
255	285650.00	4025750.00	UCART1	90.66
256	285750.00	4025750.00	UCART1	90.70
257	285850.00	4025750.00	UCART1	90.75
258	285950.00	4025750.00	UCART1	90.86

259	286050.00	4025750.00	UCART1	91.03
260	286150.00	4025750.00	UCART1	91.15
261	286250.00	4025750.00	UCART1	91.23
262	286350.00	4025750.00	UCART1	91.34
263	286450.00	4025750.00	UCART1	91.51
264	286550.00	4025750.00	UCART1	91.73
265	286650.00	4025750.00	UCART1	91.87
266	286750.00	4025750.00	UCART1	91.99
267	286850.00	4025750.00	UCART1	92.12
268	286950.00	4025750.00	UCART1	92.28
269	287050.00	4025750.00	UCART1	92.46
270	287150.00	4025750.00	UCART1	92.64
271	287250.00	4025750.00	UCART1	92.81
272	287350.00	4025750.00	UCART1	93.00
273	287450.00	4025750.00	UCART1	93.18
274	287550.00	4025750.00	UCART1	93.34
275	287650.00	4025750.00	UCART1	93.45
276	287750.00	4025750.00	UCART1	93.53
277	287850.00	4025750.00	UCART1	93.60
278	287950.00	4025750.00	UCART1	93.67
279	288050.00	4025750.00	UCART1	93.77
280	288150.00	4025750.00	UCART1	93.93
281	288250.00	4025750.00	UCART1	94.12
282	285250.00	4025850.00	UCART1	89.83
283	285350.00	4025850.00	UCART1	90.30
284	285450.00	4025850.00	UCART1	90.60
285	285550.00	4025850.00	UCART1	90.68
286	285650.00	4025850.00	UCART1	90.77
287	285750.00	4025850.00	UCART1	90.86
288	285850.00	4025850.00	UCART1	90.92
289	285950.00	4025850.00	UCART1	91.02
290	286050.00	4025850.00	UCART1	91.15
291	286150.00	4025850.00	UCART1	91.30
292	286250.00	4025850.00	UCART1	91.43
293	286350.00	4025850.00	UCART1	91.61
294	286450.00	4025850.00	UCART1	91.76
295	286550.00	4025850.00	UCART1	91.91
296	286650.00	4025850.00	UCART1	92.01

297	286750.00	4025850.00	UCART1	92.05
298	286850.00	4025850.00	UCART1	92.14
299	286950.00	4025850.00	UCART1	92.29
300	287050.00	4025850.00	UCART1	92.47
301	287150.00	4025850.00	UCART1	92.65
302	287250.00	4025850.00	UCART1	92.83
303	287350.00	4025850.00	UCART1	93.00
304	287450.00	4025850.00	UCART1	93.17
305	287950.00	4025850.00	UCART1	93.73
306	288050.00	4025850.00	UCART1	93.83
307	288150.00	4025850.00	UCART1	93.97
308	288250.00	4025850.00	UCART1	94.14
309	285150.00	4025950.00	UCART1	89.59
310	285250.00	4025950.00	UCART1	90.08
311	285350.00	4025950.00	UCART1	90.60
312	285450.00	4025950.00	UCART1	90.75
313	285550.00	4025950.00	UCART1	90.75
314	285650.00	4025950.00	UCART1	90.77
315	285750.00	4025950.00	UCART1	90.81
316	285850.00	4025950.00	UCART1	90.93
317	285950.00	4025950.00	UCART1	91.02
318	286050.00	4025950.00	UCART1	91.16
319	286150.00	4025950.00	UCART1	91.37
320	286250.00	4025950.00	UCART1	91.58
321	286350.00	4025950.00	UCART1	91.79
322	286450.00	4025950.00	UCART1	91.98
323	286550.00	4025950.00	UCART1	92.12
324	286650.00	4025950.00	UCART1	92.16
325	286750.00	4025950.00	UCART1	92.20
326	286850.00	4025950.00	UCART1	92.23
327	286950.00	4025950.00	UCART1	92.33
328	287050.00	4025950.00	UCART1	92.50
329	287150.00	4025950.00	UCART1	92.69
330	287250.00	4025950.00	UCART1	92.87
331	287350.00	4025950.00	UCART1	93.04
332	287450.00	4025950.00	UCART1	93.20
333	285150.00	4026050.00	UCART1	89.64
334	285250.00	4026050.00	UCART1	90.13

335	285350.00	4026050.00	UCART1	90.60
336	285450.00	4026050.00	UCART1	90.59
337	285550.00	4026050.00	UCART1	90.57
338	285650.00	4026050.00	UCART1	90.61
339	285750.00	4026050.00	UCART1	90.69
340	285850.00	4026050.00	UCART1	90.82
341	285950.00	4026050.00	UCART1	90.95
342	286050.00	4026050.00	UCART1	91.16
343	286150.00	4026050.00	UCART1	91.44
344	286250.00	4026050.00	UCART1	91.70
345	286350.00	4026050.00	UCART1	91.92
346	286450.00	4026050.00	UCART1	92.12
347	286550.00	4026050.00	UCART1	92.27
348	286650.00	4026050.00	UCART1	92.33
349	286750.00	4026050.00	UCART1	92.38
350	286850.00	4026050.00	UCART1	92.41
351	286950.00	4026050.00	UCART1	92.47
352	287050.00	4026050.00	UCART1	92.57
353	287150.00	4026050.00	UCART1	92.74
354	287250.00	4026050.00	UCART1	92.92
355	287350.00	4026050.00	UCART1	93.08
356	287450.00	4026050.00	UCART1	93.25
357	285150.00	4026150.00	UCART1	89.84
358	285250.00	4026150.00	UCART1	90.13
359	285350.00	4026150.00	UCART1	90.37
360	285450.00	4026150.00	UCART1	90.39
361	285550.00	4026150.00	UCART1	90.44
362	285650.00	4026150.00	UCART1	90.50
363	285750.00	4026150.00	UCART1	90.60
364	285850.00	4026150.00	UCART1	90.71
365	287650.00	4026150.00	UCART1	93.61
366	287750.00	4026150.00	UCART1	93.71
367	287850.00	4026150.00	UCART1	93.81
368	287950.00	4026150.00	UCART1	93.92
369	288050.00	4026150.00	UCART1	94.03
370	288150.00	4026150.00	UCART1	94.11
371	288250.00	4026150.00	UCART1	94.21
372	285150.00	4026250.00	UCART1	90.00

373	285250.00	4026250.00	UCART1	90.19
374	285350.00	4026250.00	UCART1	90.31
375	285450.00	4026250.00	UCART1	90.37
376	285550.00	4026250.00	UCART1	90.42
377	285650.00	4026250.00	UCART1	90.48
378	285750.00	4026250.00	UCART1	90.59
379	285850.00	4026250.00	UCART1	90.73
380	287650.00	4026250.00	UCART1	93.70
381	287750.00	4026250.00	UCART1	93.80
382	287850.00	4026250.00	UCART1	93.89
383	287950.00	4026250.00	UCART1	93.98
384	288050.00	4026250.00	UCART1	94.06
385	288150.00	4026250.00	UCART1	94.15
386	288250.00	4026250.00	UCART1	94.24
387	285150.00	4026350.00	UCART1	90.13
388	285250.00	4026350.00	UCART1	90.27
389	285350.00	4026350.00	UCART1	90.37
390	285450.00	4026350.00	UCART1	90.44
391	285550.00	4026350.00	UCART1	90.52
392	285650.00	4026350.00	UCART1	90.58
393	285750.00	4026350.00	UCART1	90.66
394	285850.00	4026350.00	UCART1	90.81
395	287650.00	4026350.00	UCART1	93.76
396	287750.00	4026350.00	UCART1	93.84
397	287850.00	4026350.00	UCART1	93.89
398	287950.00	4026350.00	UCART1	93.97
399	288050.00	4026350.00	UCART1	94.05
400	288150.00	4026350.00	UCART1	94.13
401	288250.00	4026350.00	UCART1	94.24
402	285150.00	4026450.00	UCART1	90.28
403	285250.00	4026450.00	UCART1	90.41
404	285350.00	4026450.00	UCART1	90.52
405	285450.00	4026450.00	UCART1	90.58
406	285550.00	4026450.00	UCART1	90.67
407	285650.00	4026450.00	UCART1	90.72
408	285750.00	4026450.00	UCART1	90.81
409	285850.00	4026450.00	UCART1	90.93
410	287650.00	4026450.00	UCART1	93.65

411	287750.00	4026450.00	UCART1	93.75
412	287850.00	4026450.00	UCART1	93.84
413	287950.00	4026450.00	UCART1	93.93
414	288050.00	4026450.00	UCART1	94.02
415	288150.00	4026450.00	UCART1	94.11
416	288250.00	4026450.00	UCART1	94.21
417	285150.00	4026550.00	UCART1	90.48
418	285250.00	4026550.00	UCART1	90.60
419	285350.00	4026550.00	UCART1	90.67
420	285450.00	4026550.00	UCART1	90.73
421	285550.00	4026550.00	UCART1	90.79
422	285650.00	4026550.00	UCART1	90.86
423	285750.00	4026550.00	UCART1	90.92
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427	287850.00	4026550.00	UCART1	93.78
428	287950.00	4026550.00	UCART1	93.86
429	288050.00	4026550.00	UCART1	93.98
430	288150.00	4026550.00	UCART1	94.09
431	288250.00	4026550.00	UCART1	94.16
432	285150.00	4026650.00	UCART1	90.60
433	285250.00	4026650.00	UCART1	90.75
434	285350.00	4026650.00	UCART1	90.81
435	285450.00	4026650.00	UCART1	90.87
436	285550.00	4026650.00	UCART1	90.90
437	285650.00	4026650.00	UCART1	90.97
438	285750.00	4026650.00	UCART1	91.04
439	285850.00	4026650.00	UCART1	91.13
440	287650.00	4026650.00	UCART1	93.65
441	287750.00	4026650.00	UCART1	93.66
442	287850.00	4026650.00	UCART1	93.72
443	287950.00	4026650.00	UCART1	93.83
444	288050.00	4026650.00	UCART1	93.98
445	288150.00	4026650.00	UCART1	94.06
446	288250.00	4026650.00	UCART1	94.10
447	285150.00	4026750.00	UCART1	90.67
448	285250.00	4026750.00	UCART1	90.81

449	285350.00	4026750.00	UCART1	90.90
450	285450.00	4026750.00	UCART1	90.96
451	285550.00	4026750.00	UCART1	91.03
452	285650.00	4026750.00	UCART1	91.07
453	285750.00	4026750.00	UCART1	91.10
454	285850.00	4026750.00	UCART1	91.17
455	287650.00	4026750.00	UCART1	93.76
456	287750.00	4026750.00	UCART1	93.78
457	287850.00	4026750.00	UCART1	93.81
458	287950.00	4026750.00	UCART1	93.92
459	288050.00	4026750.00	UCART1	93.99
460	288150.00	4026750.00	UCART1	94.00
461	288250.00	4026750.00	UCART1	93.99
462	285150.00	4026850.00	UCART1	90.63
463	285250.00	4026850.00	UCART1	90.79
464	285350.00	4026850.00	UCART1	90.88
465	285450.00	4026850.00	UCART1	90.99
466	285550.00	4026850.00	UCART1	91.05
467	285650.00	4026850.00	UCART1	91.06
468	285750.00	4026850.00	UCART1	91.07
469	285850.00	4026850.00	UCART1	91.16
470	286750.00	4026850.00	UCART1	92.25
471	286850.00	4026850.00	UCART1	92.33
472	286950.00	4026850.00	UCART1	92.45
473	287050.00	4026850.00	UCART1	92.55
474	287150.00	4026850.00	UCART1	92.68
475	287250.00	4026850.00	UCART1	92.86
476	287350.00	4026850.00	UCART1	93.16
477	287450.00	4026850.00	UCART1	93.51
478	287650.00	4026850.00	UCART1	93.84
479	287750.00	4026850.00	UCART1	93.88
480	287850.00	4026850.00	UCART1	93.92
481	287950.00	4026850.00	UCART1	93.94
482	288050.00	4026850.00	UCART1	93.95
483	288150.00	4026850.00	UCART1	93.89
484	288250.00	4026850.00	UCART1	93.84
485	285150.00	4026950.00	UCART1	90.54
486	285250.00	4026950.00	UCART1	90.75

487	285350.00	4026950.00	UCART1	90.86
488	285450.00	4026950.00	UCART1	90.94
489	285550.00	4026950.00	UCART1	90.95
490	285650.00	4026950.00	UCART1	90.92
491	285750.00	4026950.00	UCART1	90.96
492	285850.00	4026950.00	UCART1	91.10
493	285950.00	4026950.00	UCART1	91.20
494	286050.00	4026950.00	UCART1	91.32
495	286150.00	4026950.00	UCART1	91.45
496	286250.00	4026950.00	UCART1	91.57
497	286350.00	4026950.00	UCART1	91.69
498	286450.00	4026950.00	UCART1	91.82
499	286550.00	4026950.00	UCART1	91.93
500	286650.00	4026950.00	UCART1	92.04
501	286750.00	4026950.00	UCART1	92.13
502	286850.00	4026950.00	UCART1	92.24
503	286950.00	4026950.00	UCART1	92.35
504	287050.00	4026950.00	UCART1	92.51
505	287150.00	4026950.00	UCART1	92.58
506	287250.00	4026950.00	UCART1	92.62
507	287350.00	4026950.00	UCART1	92.83
508	287450.00	4026950.00	UCART1	93.16
509	287650.00	4026950.00	UCART1	93.61
510	287750.00	4026950.00	UCART1	93.79
511	287850.00	4026950.00	UCART1	93.84
512	287950.00	4026950.00	UCART1	93.81
513	288050.00	4026950.00	UCART1	93.82
514	288150.00	4026950.00	UCART1	93.79
515	288250.00	4026950.00	UCART1	93.82
516	285150.00	4027050.00	UCART1	90.46
517	285250.00	4027050.00	UCART1	90.72
518	285350.00	4027050.00	UCART1	90.84
519	285450.00	4027050.00	UCART1	90.85
520	285550.00	4027050.00	UCART1	90.73
521	285650.00	4027050.00	UCART1	90.75
522	285750.00	4027050.00	UCART1	90.89
523	285850.00	4027050.00	UCART1	91.03
524	285950.00	4027050.00	UCART1	91.13

525	286050.00	4027050.00	UCART1	91.26
526	286150.00	4027050.00	UCART1	91.38
527	286250.00	4027050.00	UCART1	91.51
528	286350.00	4027050.00	UCART1	91.62
529	286450.00	4027050.00	UCART1	91.73
530	286550.00	4027050.00	UCART1	91.84
531	286650.00	4027050.00	UCART1	91.96
532	286750.00	4027050.00	UCART1	92.05
533	286850.00	4027050.00	UCART1	92.14
534	286950.00	4027050.00	UCART1	92.29
535	287050.00	4027050.00	UCART1	92.42
536	287150.00	4027050.00	UCART1	92.41
537	287250.00	4027050.00	UCART1	92.38
538	287350.00	4027050.00	UCART1	92.50
539	287450.00	4027050.00	UCART1	92.63
540	287650.00	4027050.00	UCART1	92.74
541	287750.00	4027050.00	UCART1	92.75
542	287850.00	4027050.00	UCART1	92.72
543	287950.00	4027050.00	UCART1	92.84
544	288050.00	4027050.00	UCART1	93.77
545	288150.00	4027050.00	UCART1	93.82
546	288250.00	4027050.00	UCART1	93.92
547	285250.00	4027150.00	UCART1	90.61
548	285350.00	4027150.00	UCART1	90.76
549	285450.00	4027150.00	UCART1	90.71
550	285550.00	4027150.00	UCART1	90.59
551	285650.00	4027150.00	UCART1	90.73
552	285750.00	4027150.00	UCART1	90.87
553	285850.00	4027150.00	UCART1	90.97
554	285950.00	4027150.00	UCART1	91.05
555	286050.00	4027150.00	UCART1	91.17
556	286150.00	4027150.00	UCART1	91.31
557	286250.00	4027150.00	UCART1	91.44
558	286350.00	4027150.00	UCART1	91.56
559	286450.00	4027150.00	UCART1	91.67
560	286550.00	4027150.00	UCART1	91.77
561	286650.00	4027150.00	UCART1	91.89
562	286750.00	4027150.00	UCART1	91.98

563	286850.00	4027150.00	UCART1	92.10
564	286950.00	4027150.00	UCART1	92.25
565	287050.00	4027150.00	UCART1	92.33
566	287150.00	4027150.00	UCART1	92.26
567	287250.00	4027150.00	UCART1	92.31
568	287350.00	4027150.00	UCART1	92.30
569	287450.00	4027150.00	UCART1	92.30
570	287650.00	4027150.00	UCART1	92.36
571	287750.00	4027150.00	UCART1	92.41
572	287850.00	4027150.00	UCART1	92.52
573	287950.00	4027150.00	UCART1	93.04
574	288050.00	4027150.00	UCART1	93.83
575	288150.00	4027150.00	UCART1	93.90
576	288250.00	4027150.00	UCART1	94.01
577	285250.00	4027250.00	UCART1	90.38
578	285350.00	4027250.00	UCART1	90.50
579	285450.00	4027250.00	UCART1	90.49
580	285550.00	4027250.00	UCART1	90.52
581	285650.00	4027250.00	UCART1	90.71
582	285750.00	4027250.00	UCART1	90.83
583	285850.00	4027250.00	UCART1	90.84
584	285950.00	4027250.00	UCART1	90.92
585	286050.00	4027250.00	UCART1	91.07
586	286150.00	4027250.00	UCART1	91.25
587	286250.00	4027250.00	UCART1	91.40
588	286350.00	4027250.00	UCART1	91.51
589	286450.00	4027250.00	UCART1	91.60
590	286550.00	4027250.00	UCART1	91.69
591	286650.00	4027250.00	UCART1	91.81
592	286750.00	4027250.00	UCART1	91.92
593	286850.00	4027250.00	UCART1	92.07
594	286950.00	4027250.00	UCART1	92.20
595	287050.00	4027250.00	UCART1	92.28
596	287150.00	4027250.00	UCART1	92.35
597	287250.00	4027250.00	UCART1	92.41
598	287350.00	4027250.00	UCART1	92.43
599	287450.00	4027250.00	UCART1	92.41
600	287650.00	4027250.00	UCART1	92.66

601	287750.00	4027250.00	UCART1	92.87
602	287850.00	4027250.00	UCART1	93.11
603	287950.00	4027250.00	UCART1	93.44
604	288050.00	4027250.00	UCART1	93.78
605	288150.00	4027250.00	UCART1	93.89
606	285350.00	4027350.00	UCART1	90.28
607	285450.00	4027350.00	UCART1	90.46
608	285550.00	4027350.00	UCART1	90.52
609	285650.00	4027350.00	UCART1	90.62
610	285750.00	4027350.00	UCART1	90.69
611	285850.00	4027350.00	UCART1	90.71
612	285950.00	4027350.00	UCART1	90.83
613	286050.00	4027350.00	UCART1	91.03
614	286150.00	4027350.00	UCART1	91.19
615	286250.00	4027350.00	UCART1	91.34
616	286350.00	4027350.00	UCART1	91.44
617	286450.00	4027350.00	UCART1	91.51
618	286550.00	4027350.00	UCART1	91.60
619	286650.00	4027350.00	UCART1	91.73
620	286750.00	4027350.00	UCART1	91.86
621	286850.00	4027350.00	UCART1	91.98
622	286950.00	4027350.00	UCART1	92.08
623	287050.00	4027350.00	UCART1	92.21
624	287150.00	4027350.00	UCART1	92.34
625	287250.00	4027350.00	UCART1	92.41
626	287350.00	4027350.00	UCART1	92.48
627	287450.00	4027350.00	UCART1	92.50
628	287650.00	4027350.00	UCART1	92.82
629	287750.00	4027350.00	UCART1	93.05
630	287850.00	4027350.00	UCART1	93.29
631	287950.00	4027350.00	UCART1	93.47
632	288050.00	4027350.00	UCART1	93.68
633	285350.00	4027450.00	UCART1	90.09
634	285450.00	4027450.00	UCART1	90.52
635	285550.00	4027450.00	UCART1	90.74
636	285650.00	4027450.00	UCART1	90.75
637	285750.00	4027450.00	UCART1	90.74
638	285850.00	4027450.00	UCART1	90.75

639	285950.00	4027450.00	UCART1	90.93
640	286050.00	4027450.00	UCART1	91.07
641	286150.00	4027450.00	UCART1	91.18
642	286250.00	4027450.00	UCART1	91.28
643	286350.00	4027450.00	UCART1	91.35
644	286450.00	4027450.00	UCART1	91.39
645	286550.00	4027450.00	UCART1	91.48
646	286650.00	4027450.00	UCART1	91.65
647	286750.00	4027450.00	UCART1	91.81
648	286850.00	4027450.00	UCART1	91.91
649	286950.00	4027450.00	UCART1	92.02
650	287050.00	4027450.00	UCART1	92.12
651	287150.00	4027450.00	UCART1	92.23
652	287250.00	4027450.00	UCART1	92.37
653	287350.00	4027450.00	UCART1	92.50
654	287450.00	4027450.00	UCART1	92.61
655	285450.00	4027550.00	UCART1	90.45
656	285550.00	4027550.00	UCART1	90.74
657	285650.00	4027550.00	UCART1	90.83
658	285750.00	4027550.00	UCART1	90.87
659	285850.00	4027550.00	UCART1	90.94
660	285950.00	4027550.00	UCART1	91.02
661	286050.00	4027550.00	UCART1	91.08
662	286150.00	4027550.00	UCART1	91.15
663	286250.00	4027550.00	UCART1	91.21
664	286350.00	4027550.00	UCART1	91.24
665	286450.00	4027550.00	UCART1	91.24
666	286550.00	4027550.00	UCART1	91.31
667	286650.00	4027550.00	UCART1	91.53
668	286750.00	4027550.00	UCART1	91.79
669	286850.00	4027550.00	UCART1	91.95
670	286950.00	4027550.00	UCART1	92.01
671	287050.00	4027550.00	UCART1	92.09
672	287150.00	4027550.00	UCART1	92.22
673	287250.00	4027550.00	UCART1	92.37
674	287350.00	4027550.00	UCART1	92.55
675	287450.00	4027550.00	UCART1	92.69
676	285650.00	4027650.00	UCART1	90.81

677	285750.00	4027650.00	UCART1	90.89
678	285850.00	4027650.00	UCART1	90.94
679	285950.00	4027650.00	UCART1	90.98
680	286050.00	4027650.00	UCART1	91.01
681	286150.00	4027650.00	UCART1	91.05
682	286250.00	4027650.00	UCART1	91.09
683	286350.00	4027650.00	UCART1	91.08
684	286450.00	4027650.00	UCART1	91.02
685	286550.00	4027650.00	UCART1	91.01
686	286650.00	4027650.00	UCART1	91.38
687	286750.00	4027650.00	UCART1	91.82
688	286850.00	4027650.00	UCART1	92.01
689	286950.00	4027650.00	UCART1	92.07

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	UCART1	Receptors generated from Uniform Cartesian Grid
3	RES	Resident

Meteorology Pathway

Met Input Data

Surface Met Data

Filename: ..\Visalia_93144\Visalia_2007-2010.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: ..\Visalia_93144\Visalia_2007-2010.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 89.90 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface Upper Air		2007 2007			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2007 Start Hour: 1 End Date: 12/31/2010 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

HARP Project Summary Report 10/25/2023 9:22:46 AM

PROJECT INFORMATION
HARP Version: 22118
Project Name: SHIRK_AND_RIGGIN_OPHRA
Project Output Directory: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:41
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
BREATHE	0	0	71432	Benzene	1	0.0987	0.000131866	1
BREATHE	0	0	100414	Ethyl Benzene	1	0.0231	0	1
BREATHE	0	0	110543	Hexane	1	0.394	0	1
BREATHE	0	0	91203	Naphthalene	1	9.61E-05	0	1
BREATHE	0	0	115071	Propylene	1	0.000776	0	1
BREATHE	0	0	1330207	Xylenes	1	0.0884	0.000122231	1
BREATHE	0	0	108883	Toluene	1	0.241	0.000323208	1
HOSE	0	0	71432	Benzene	1	0.037	4.94E-05	1
HOSE	0	0	100414	Ethyl Benzene	1	0.00868	0	1
HOSE	0	0	110543	Hexane	1	0.148	0	1
HOSE	0	0	91203	Naphthalene	1	3.6E-05	0	1
HOSE	0	0	115071	Propylene	1	0.000291	0	1
HOSE	0	0	1330207	Xylenes	1	0.0332	4.58E-05	1
HOSE	0	0	108883	Toluene	1	0.0902	0.000121203	1
LOAD	0	0	71432	Benzene	1	0.617	0.007252634	1
LOAD	0	0	100414	Ethyl Benzene	1	0.145	0	1
LOAD	0	0	110543	Hexane	1	2.46	0	1
LOAD	0	0	91203	Naphthalene	1	0.000601	0	1
LOAD	0	0	115071	Propylene	1	0.00485	0	1
LOAD	0	0	1330207	Xylenes	1	0.553	0.00672272	1
LOAD	0	0	108883	Toluene	1	1.5	0.01777644	1
REFUEL	0	0	71432	Benzene	1	0.366	0.000489003	1
REFUEL	0	0	100414	Ethyl Benzene	1	0.0858	0	1
REFUEL	0	0	110543	Hexane	1	1.46	0	1
REFUEL	0	0	91203	Naphthalene	1	0.000356	0	1
REFUEL	0	0	115071	Propylene	1	0.00288	0	1
REFUEL	0	0	1330207	Xylenes	1	0.328	0.000453274	1
REFUEL	0	0	108883	Toluene	1	0.892	0.001198563	1
SPILL	0	0	71432	Benzene	1	1.53	0.001684702	1
SPILL	0	0	100414	Ethyl Benzene	1	2.78	0	1
SPILL	0	0	110543	Hexane	1	4.01	0	1
SPILL	0	0	91203	Naphthalene	1	0.376	0	1
SPILL	0	0	115071	Propylene	1	0.000264	0	1
SPILL	0	0	1330207	Xylenes	1	14.2	0.016590521	1
SPILL	0	0	108883	Toluene	1	12.2	0.013927361	1
TRUCKS_IDLE_DOCKS		0	9901	DieselExhPM	1	3.33	0	1
TRUCKS_IDLE_DRIVEWAYS		0	9901	DieselExhPM	1	3.33	0	1
TRUCKS_RIGGIN_EAST		0	9901	DieselExhPM	1	3.6	0	1
TRUCKS_RIGGIN_WEST		0	9901	DieselExhPM	1	15.89	0	1
TRUCKS_SHIRK_N		0	9901	DieselExhPM	1	2.83	0	1
TRUCKS_ONSITE_RUNEX		0	9901	DieselExhPM	1	8.41	0	1

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH22013
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
71432	Benzene	0.1		27	3		3
100414	Ethyl Benzene	0.0087			2000		
110543	Hexane				7000		
91203	Naphthalene	0.12			9		
115071	Propylene				3000		
1330207	Xylenes			22000	700		
108883	Toluene			5000	420		830
9901	DieselExhPM	1.1			5		

HARP2 - HRACalc (dated 22118) 10/25/2023 9:19:52 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRACancerRisk.csv
Cancer risk total by receptor saved to: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRACancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 10/25/2023 9:20:21 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHINCChronicRisk.csv
Chronic risk total by receptor saved to:
F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHINCChronicRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 10/25/2023 9:54:06 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCAcute
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

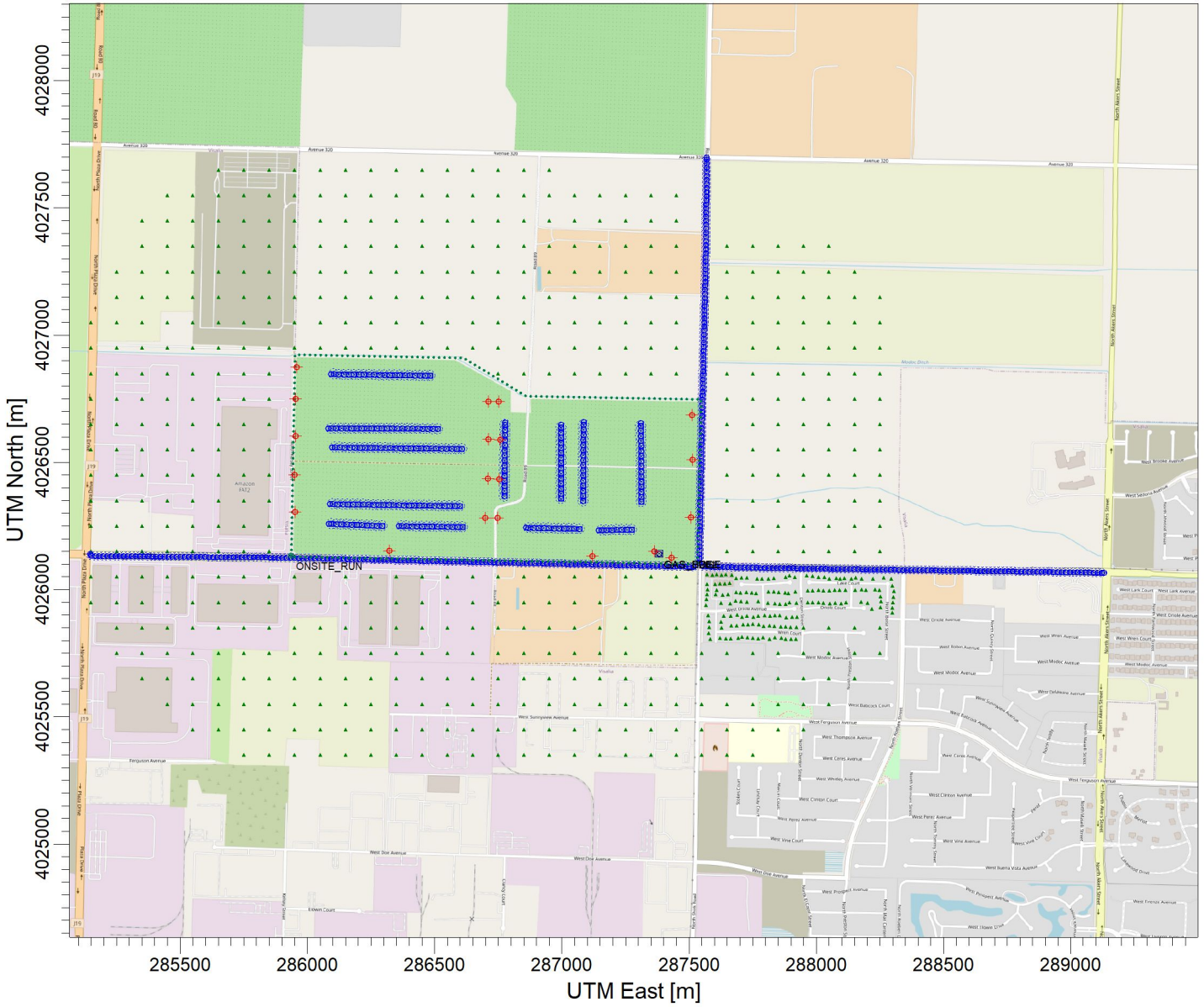
Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTENCAcuteRisk.csv
Acute risk total by receptor saved to:
F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTENCAcuteRiskSumByRec.csv
HRA ran successfully


UTM North [m]
4028000
4027500
4027000
4026500
4026000
4025500
4025000
285500
286000
286500
287000
287500
288000
288500
289000
UTM East [m]
ONSITE_RUN
CAR_PROF

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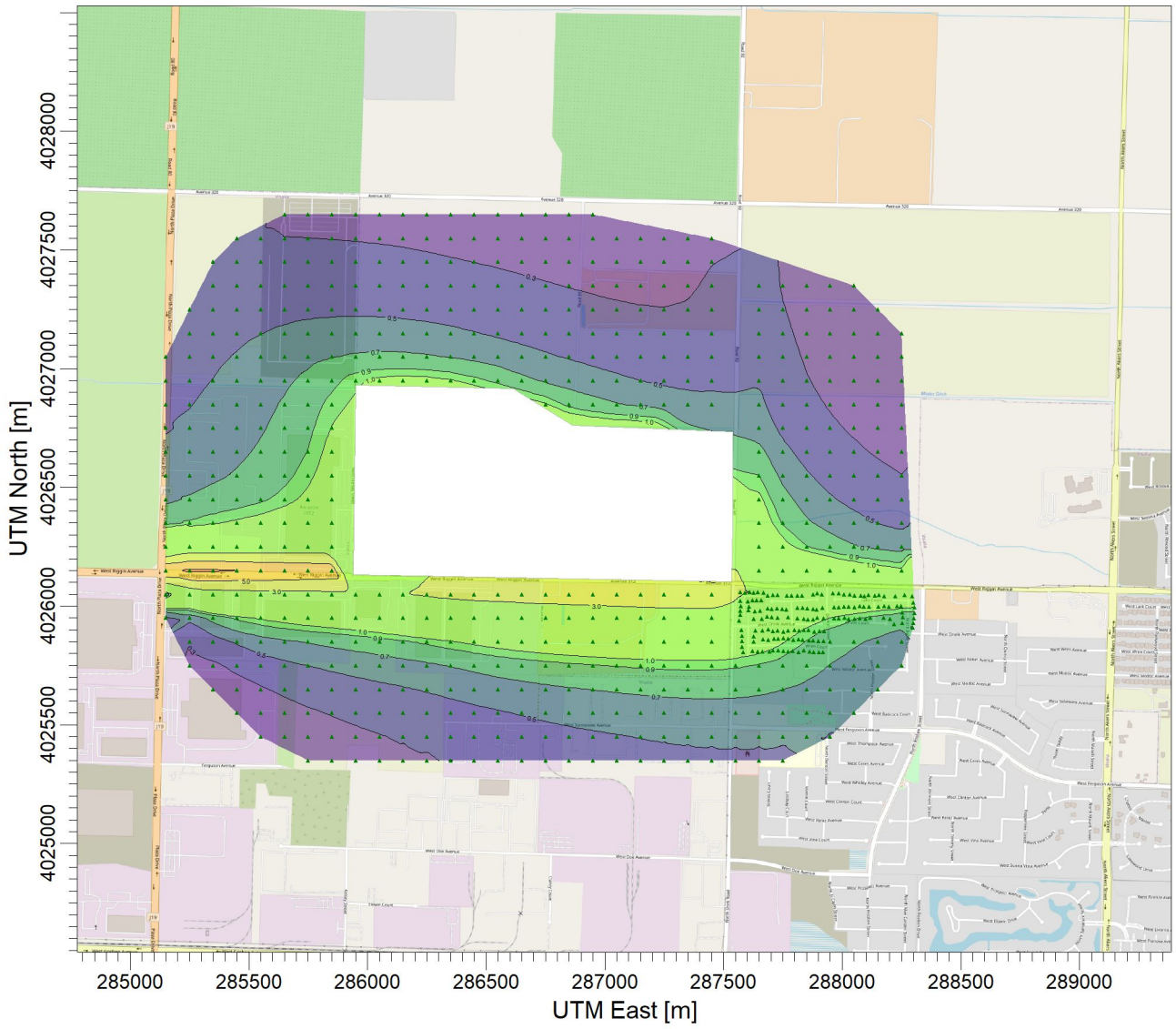
SRC	REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
TRUCKS_ONSITE_RUNEX	1	ALL		287571.6	4026060	4.34E-07	30YrCancer	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRUCKS_IDLE_DOCKS	1	ALL		287571.6	4026060	1.07E-07	30YrCancer	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRUCKS_IDLE_DRIVEWAYS	1	ALL		287571.6	4026060	1.49E-07	30YrCancer	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LOAD	1	ALL		287571.6	4026060	1.64E-08	30YrCancer	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BREATHE	1	ALL		287571.6	4026060	2.62E-09	30YrCancer	2.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
REFUEL	1	ALL		287571.6	4026060	1.14E-08	30YrCancer	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SPILL	1	ALL		287571.6	4026060	6.85E-08	30YrCancer	6.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HOSE	1	ALL		287571.6	4026060	1.16E-09	30YrCancer	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRUCKS_RIGGIN_EAST	1	ALL		287571.6	4026060	7.99E-07	30YrCancer	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRUCKS_RIGGIN_WEST	1	ALL		287571.6	4026060	1.61E-06	30YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRUCKS_SHIRK_N	1	ALL		287571.6	4026060	1.51E-07	30YrCancer	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
						3.35E-06													

*HARP - HRACalc v22118 10/25/2023 12:32:09 PM - Chronic Risk by Receptor and Source - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\TRUCKS_ONSITE_RUNEX.OpHRA_REC1_CHIHRAInput.hra

SRC	REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
TRUCKS_ONSITE_RUNEX	1	ALL		287571.6	4026060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
TRUCKS_IDLE_DOCKS	1	ALL		287571.6	4026060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
TRUCKS_IDLE_DRIVEWAYS	1	ALL		287571.6	4026060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
LOAD	1	ALL		287571.6	4026060	NonCancer	0.00E+00	4.38E-07	0.00E+00	2.78E-08	2.78E-08	2.78E-08	3.30E-07	0.00E+00	1.67E-06	0.00E+00	2.78E-08	7.90E-05	0.00E+00	0.00E+00	7.90E-05
BREATHE	1	ALL		287571.6	4026060	NonCancer	0.00E+00	7.01E-08	0.00E+00	4.44E-09	4.44E-09	4.44E-09	5.27E-08	0.00E+00	2.69E-07	0.00E+00	4.44E-09	1.26E-05	0.00E+00	0.00E+00	1.26E-05
REFUEL	1	ALL		287571.6	4026060	NonCancer	0.00E+00	3.06E-07	0.00E+00	1.94E-08	1.94E-08	1.94E-08	2.30E-07	0.00E+00	1.17E-06	0.00E+00	1.94E-08	5.52E-05	0.00E+00	0.00E+00	5.52E-05
SPILL	1	ALL		287571.6	4026060	NonCancer	0.00E+00	9.50E-06	0.00E+00	6.33E-07	6.33E-07	6.33E-07	2.83E-05	0.00E+00	2.25E-05	0.00E+00	6.33E-07	2.32E-04	0.00E+00	0.00E+00	2.32E-04
HOSE	1	ALL		287571.6	4026060	NonCancer	0.00E+00	3.12E-08	0.00E+00	1.98E-09	1.98E-09	1.98E-09	2.35E-08	0.00E+00	1.19E-07	0.00E+00	1.98E-09	5.61E-06	0.00E+00	0.00E+00	5.61E-06
TRUCKS_RIGGIN_EAST	1	ALL		287571.6	4026060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
TRUCKS_RIGGIN_WEST	1	ALL		287571.6	4026060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
TRUCKS_SHIRK_N	1	ALL		287571.6	4026060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
								1.03E-05	0.00E+00	6.86E-07	6.86E-07	6.86E-07	9.02E-04	0.00E+00	2.57E-05	0.00E+00	6.86E-07	3.85E-04	0.00E+00	0.00E+00	1.26E-03

PROJECT TITLE:

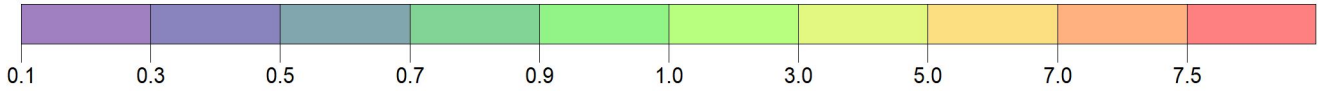
Shirk and Riggin Industrial Park Project
Residential Cancer Risk Results



PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL

Risk/Million

Max: 7.3 [Risk/Million] at (285250.00, 4026150.00)



COMMENTS:	SOURCES: **40**	COMPANY NAME:	
	RECEPTORS: **689**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:28,995 0 1 km	
	MAX: **7.3 Risk/Million**	DATE: **10/25/2023**	PROJECT NO.:

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
1	ALL		287571.61	4026059.7	3.35E-06	30YrCancerRMP_Inh_FAH16to70	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		287591.26	4026057.63	3.06E-06	30YrCancerRMP_Inh_FAH16to70	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		287608.83	4026059.7	3.01E-06	30YrCancerRMP_Inh_FAH16to70	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		287627.45	4026057.63	2.83E-06	30YrCancerRMP_Inh_FAH16to70	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		287645.03	4026058.67	2.79E-06	30YrCancerRMP_Inh_FAH16to70	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		287668.81	4026057.63	2.66E-06	30YrCancerRMP_Inh_FAH16to70	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		287685.36	4026045.23	2.25E-06	30YrCancerRMP_Inh_FAH16to70	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		287707.07	4026046.26	2.21E-06	30YrCancerRMP_Inh_FAH16to70	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		287727.75	4026047.29	2.19E-06	30YrCancerRMP_Inh_FAH16to70	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		287768.08	4026043.16	2.01E-06	30YrCancerRMP_Inh_FAH16to70	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		287785.66	4026043.16	1.99E-06	30YrCancerRMP_Inh_FAH16to70	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		287812.55	4026043.16	1.95E-06	30YrCancerRMP_Inh_FAH16to70	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		287832.19	4026044.19	1.95E-06	30YrCancerRMP_Inh_FAH16to70	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		287878.73	4026049.36	2.04E-06	30YrCancerRMP_Inh_FAH16to70	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		287895.27	4026054.53	2.21E-06	30YrCancerRMP_Inh_FAH16to70	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		287914.92	4026048.33	1.98E-06	30YrCancerRMP_Inh_FAH16to70	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		287571.61	4026021.44	2.59E-06	30YrCancerRMP_Inh_FAH16to70	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		287572.64	4025999.73	2.26E-06	30YrCancerRMP_Inh_FAH16to70	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		287570.57	4025981.11	2.04E-06	30YrCancerRMP_Inh_FAH16to70	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		287569.54	4025962.5	1.86E-06	30YrCancerRMP_Inh_FAH16to70	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		287566.44	4025939.75	1.67E-06	30YrCancerRMP_Inh_FAH16to70	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		287601.6	4026020.41	2.27E-06	30YrCancerRMP_Inh_FAH16to70	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		287622.28	4026023.51	2.16E-06	30YrCancerRMP_Inh_FAH16to70	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		287639.86	4026023.51	2.07E-06	30YrCancerRMP_Inh_FAH16to70	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		287659.5	4026025.58	2.01E-06	30YrCancerRMP_Inh_FAH16to70	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		287607.8	4025997.66	2.00E-06	30YrCancerRMP_Inh_FAH16to70	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		287604.7	4025982.15	1.89E-06	30YrCancerRMP_Inh_FAH16to70	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		287632.62	4025979.05	1.73E-06	30YrCancerRMP_Inh_FAH16to70	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		287653.3	4025981.11	1.66E-06	30YrCancerRMP_Inh_FAH16to70	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		287626.41	4025946.99	1.57E-06	30YrCancerRMP_Inh_FAH16to70	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		287661.57	4025945.96	1.46E-06	30YrCancerRMP_Inh_FAH16to70	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		287685.36	4025990.42	1.61E-06	30YrCancerRMP_Inh_FAH16to70	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		287702.93	4025987.32	1.54E-06	30YrCancerRMP_Inh_FAH16to70	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		287725.68	4025989.39	1.50E-06	30YrCancerRMP_Inh_FAH16to70	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		287746.37	4025988.35	1.45E-06	30YrCancerRMP_Inh_FAH16to70	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		287763.94	4025985.25	1.39E-06	30YrCancerRMP_Inh_FAH16to70	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		287772.22	4025953.19	1.23E-06	30YrCancerRMP_Inh_FAH16to70	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		287726.72	4025951.13	1.31E-06	30YrCancerRMP_Inh_FAH16to70	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		287703.97	4025953.19	1.37E-06	30YrCancerRMP_Inh_FAH16to70	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		287683.29	4025955.26	1.44E-06	30YrCancerRMP_Inh_FAH16to70	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		287575.74	4025898.39	1.40E-06	30YrCancerRMP_Inh_FAH16to70	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		287578.85	4025875.64	1.29E-06	30YrCancerRMP_Inh_FAH16to70	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		287578.85	4025851.86	1.20E-06	30YrCancerRMP_Inh_FAH16to70	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		287577.81	4025828.07	1.12E-06	30YrCancerRMP_Inh_FAH16to70	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		287584.02	4025805.32	1.05E-06	30YrCancerRMP_Inh_FAH16to70	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		287622.28	4025810.49	1.04E-06	30YrCancerRMP_Inh_FAH16to70	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		287627.45	4025850.82	1.16E-06	30YrCancerRMP_Inh_FAH16to70	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		287626.41	4025872.54	1.23E-06	30YrCancerRMP_Inh_FAH16to70	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		287635.72	4025897.35	1.32E-06	30YrCancerRMP_Inh_FAH16to70	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		287664.67	4025897.35	1.27E-06	30YrCancerRMP_Inh_FAH16to70	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		287689.49	4025901.49	1.23E-06	30YrCancerRMP_Inh_FAH16to70	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		287709.14	4025893.22	1.17E-06	30YrCancerRMP_Inh_FAH16to70	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		287727.75	4025897.35	1.15E-06	30YrCancerRMP_Inh_FAH16to70	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		287752.57	4025892.18	1.10E-06	30YrCancerRMP_Inh_FAH16to70	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		287772.22	4025896.32	1.08E-06	30YrCancerRMP_Inh_FAH16to70	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		287798.07	4025899.42	1.04E-06	30YrCancerRMP_Inh_FAH16to70	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		287817.72	4025897.35	1.01E-06	30YrCancerRMP_Inh_FAH16to70	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		287837.36	4025899.42	9.92E-07	30YrCancerRMP_Inh_FAH16to70	9.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		287857.01	4025899.42	9.69E-07	30YrCancerRMP_Inh_FAH16to70	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
60	ALL		287881.83	4025891.15	9.26E-07	30YrCancerRMP_Inh_FAH16to70	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		287904.58	4025893.22	9.07E-07	30YrCancerRMP_Inh_FAH16to70	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		287923.19	4025893.22	8.89E-07	30YrCancerRMP_Inh_FAH16to70	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		287921.12	4025948.02	1.02E-06	30YrCancerRMP_Inh_FAH16to70	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		287895.27	4025950.09	1.05E-06	30YrCancerRMP_Inh_FAH16to70	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		287878.73	4025943.89	1.05E-06	30YrCancerRMP_Inh_FAH16to70	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		287855.98	4025942.85	1.08E-06	30YrCancerRMP_Inh_FAH16to70	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		287837.36	4025945.96	1.11E-06	30YrCancerRMP_Inh_FAH16to70	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		287810.48	4025948.02	1.16E-06	30YrCancerRMP_Inh_FAH16to70	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		287812.55	4025992.49	1.35E-06	30YrCancerRMP_Inh_FAH16to70	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		287833.23	4025991.45	1.31E-06	30YrCancerRMP_Inh_FAH16to70	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		287852.87	4025990.42	1.28E-06	30YrCancerRMP_Inh_FAH16to70	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		287876.66	4025988.35	1.24E-06	30YrCancerRMP_Inh_FAH16to70	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		287891.13	4025986.28	1.21E-06	30YrCancerRMP_Inh_FAH16to70	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		287916.99	4025991.45	1.21E-06	30YrCancerRMP_Inh_FAH16to70	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		287643.99	4025808.42	1.02E-06	30YrCancerRMP_Inh_FAH16to70	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		287664.67	4025808.42	1.01E-06	30YrCancerRMP_Inh_FAH16to70	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		287692.59	4025809.46	9.89E-07	30YrCancerRMP_Inh_FAH16to70	9.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		287709.14	4025814.63	9.85E-07	30YrCancerRMP_Inh_FAH16to70	9.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		287729.82	4025812.56	9.61E-07	30YrCancerRMP_Inh_FAH16to70	9.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		287751.54	4025810.49	9.35E-07	30YrCancerRMP_Inh_FAH16to70	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		287771.18	4025808.42	9.12E-07	30YrCancerRMP_Inh_FAH16to70	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		287790.83	4025811.53	8.97E-07	30YrCancerRMP_Inh_FAH16to70	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		287816.68	4025806.36	8.64E-07	30YrCancerRMP_Inh_FAH16to70	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		287838.4	4025812.56	8.52E-07	30YrCancerRMP_Inh_FAH16to70	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		287862.18	4025809.46	8.25E-07	30YrCancerRMP_Inh_FAH16to70	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		287879.76	4025805.32	8.04E-07	30YrCancerRMP_Inh_FAH16to70	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		287901.48	4025805.32	7.85E-07	30YrCancerRMP_Inh_FAH16to70	7.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		287920.09	4025805.32	7.69E-07	30YrCancerRMP_Inh_FAH16to70	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL		287921.12	4025852.89	8.27E-07	30YrCancerRMP_Inh_FAH16to70	8.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL		287899.41	4025852.89	8.46E-07	30YrCancerRMP_Inh_FAH16to70	8.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL		287878.73	4025854.96	8.70E-07	30YrCancerRMP_Inh_FAH16to70	8.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL		287860.11	4025854.96	8.89E-07	30YrCancerRMP_Inh_FAH16to70	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL		287834.26	4025857.03	9.20E-07	30YrCancerRMP_Inh_FAH16to70	9.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL		287815.65	4025859.09	9.45E-07	30YrCancerRMP_Inh_FAH16to70	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL		287793.93	4025857.03	9.69E-07	30YrCancerRMP_Inh_FAH16to70	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL		287773.25	4025863.23	1.01E-06	30YrCancerRMP_Inh_FAH16to70	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL		287751.54	4025864.26	1.04E-06	30YrCancerRMP_Inh_FAH16to70	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL		287730.85	4025862.2	1.06E-06	30YrCancerRMP_Inh_FAH16to70	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL		287712.24	4025862.2	1.09E-06	30YrCancerRMP_Inh_FAH16to70	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		287687.42	4025858.06	1.11E-06	30YrCancerRMP_Inh_FAH16to70	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL		287665.71	4025859.09	1.14E-06	30YrCancerRMP_Inh_FAH16to70	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL		287962.23	4026054.51	2.18E-06	30YrCancerRMP_Inh_FAH16to70	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL		287985.57	4026052.9	2.11E-06	30YrCancerRMP_Inh_FAH16to70	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL		288008.12	4026049.68	1.98E-06	30YrCancerRMP_Inh_FAH16to70	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL		288031.47	4026048.88	1.95E-06	30YrCancerRMP_Inh_FAH16to70	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL		288051.6	4026043.24	1.77E-06	30YrCancerRMP_Inh_FAH16to70	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL		288078.16	4026044.05	1.79E-06	30YrCancerRMP_Inh_FAH16to70	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL		288092.66	4026042.44	1.74E-06	30YrCancerRMP_Inh_FAH16to70	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL		288110.37	4026045.66	1.83E-06	30YrCancerRMP_Inh_FAH16to70	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL		288137.74	4026043.24	1.75E-06	30YrCancerRMP_Inh_FAH16to70	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL		288154.65	4026046.46	1.85E-06	30YrCancerRMP_Inh_FAH16to70	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL		288177.19	4026042.44	1.72E-06	30YrCancerRMP_Inh_FAH16to70	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL		288223.09	4026042.44	1.72E-06	30YrCancerRMP_Inh_FAH16to70	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL		288264.15	4026046.46	1.85E-06	30YrCancerRMP_Inh_FAH16to70	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL		288294.74	4026041.63	1.69E-06	30YrCancerRMP_Inh_FAH16to70	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL		287966.25	4025994.93	1.19E-06	30YrCancerRMP_Inh_FAH16to70	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL		287984.77	4025994.93	1.17E-06	30YrCancerRMP_Inh_FAH16to70	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL		288008.92	4025997.35	1.17E-06	30YrCancerRMP_Inh_FAH16to70	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
119	ALL		288028.25	4025996.54	1.15E-06	30YrCancerRMP_Inh_FAH16to70	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL		288051.6	4025995.74	1.13E-06	30YrCancerRMP_Inh_FAH16to70	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL		288073.33	4025998.96	1.14E-06	30YrCancerRMP_Inh_FAH16to70	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL		288091.85	4025998.15	1.12E-06	30YrCancerRMP_Inh_FAH16to70	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL		288113.59	4025997.35	1.10E-06	30YrCancerRMP_Inh_FAH16to70	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL		288153.04	4025997.35	1.08E-06	30YrCancerRMP_Inh_FAH16to70	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL		288178	4025999.76	1.09E-06	30YrCancerRMP_Inh_FAH16to70	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL		288195.71	4025997.35	1.06E-06	30YrCancerRMP_Inh_FAH16to70	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL		288231.14	4025999.76	1.07E-06	30YrCancerRMP_Inh_FAH16to70	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL		288248.05	4025998.96	1.05E-06	30YrCancerRMP_Inh_FAH16to70	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL		288299.57	4026015.87	1.20E-06	30YrCancerRMP_Inh_FAH16to70	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL		288305.21	4025994.13	9.97E-07	30YrCancerRMP_Inh_FAH16to70	9.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL		288303.6	4025971.58	8.69E-07	30YrCancerRMP_Inh_FAH16to70	8.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL		288301.18	4025949.04	7.83E-07	30YrCancerRMP_Inh_FAH16to70	7.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL		288298.77	4025928.11	7.25E-07	30YrCancerRMP_Inh_FAH16to70	7.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL		288297.96	4025908.79	6.83E-07	30YrCancerRMP_Inh_FAH16to70	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL		287966.25	4025949.04	9.79E-07	30YrCancerRMP_Inh_FAH16to70	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL		287985.57	4025949.04	9.62E-07	30YrCancerRMP_Inh_FAH16to70	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL		288009.73	4025949.85	9.45E-07	30YrCancerRMP_Inh_FAH16to70	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL		288027.44	4025946.63	9.21E-07	30YrCancerRMP_Inh_FAH16to70	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL		288052.4	4025945.82	9.01E-07	30YrCancerRMP_Inh_FAH16to70	9.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL		288074.14	4025947.43	8.91E-07	30YrCancerRMP_Inh_FAH16to70	8.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL		288097.49	4025945.82	8.71E-07	30YrCancerRMP_Inh_FAH16to70	8.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL		288117.62	4025949.85	8.72E-07	30YrCancerRMP_Inh_FAH16to70	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL		288175.58	4025950.65	8.43E-07	30YrCancerRMP_Inh_FAH16to70	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL		288252.88	4025973.2	8.96E-07	30YrCancerRMP_Inh_FAH16to70	8.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL		288255.29	4025953.87	8.17E-07	30YrCancerRMP_Inh_FAH16to70	8.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL		288252.07	4025929.72	7.48E-07	30YrCancerRMP_Inh_FAH16to70	7.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL		288200.54	4025946.63	8.18E-07	30YrCancerRMP_Inh_FAH16to70	8.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL		288219.06	4025924.08	7.50E-07	30YrCancerRMP_Inh_FAH16to70	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL		285750	4025350	1.77E-07	30YrCancerRMP_Inh_FAH16to70	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL		285850	4025350	1.98E-07	30YrCancerRMP_Inh_FAH16to70	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL		285950	4025350	2.19E-07	30YrCancerRMP_Inh_FAH16to70	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL		286050	4025350	2.39E-07	30YrCancerRMP_Inh_FAH16to70	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL		286150	4025350	2.60E-07	30YrCancerRMP_Inh_FAH16to70	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL		286250	4025350	2.79E-07	30YrCancerRMP_Inh_FAH16to70	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL		286350	4025350	2.98E-07	30YrCancerRMP_Inh_FAH16to70	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL		286450	4025350	3.16E-07	30YrCancerRMP_Inh_FAH16to70	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL		286550	4025350	3.34E-07	30YrCancerRMP_Inh_FAH16to70	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL		286650	4025350	3.51E-07	30YrCancerRMP_Inh_FAH16to70	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL		286750	4025350	3.68E-07	30YrCancerRMP_Inh_FAH16to70	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL		286850	4025350	3.86E-07	30YrCancerRMP_Inh_FAH16to70	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL		286950	4025350	4.02E-07	30YrCancerRMP_Inh_FAH16to70	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL		287050	4025350	4.16E-07	30YrCancerRMP_Inh_FAH16to70	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL		287150	4025350	4.30E-07	30YrCancerRMP_Inh_FAH16to70	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL		287250	4025350	4.41E-07	30YrCancerRMP_Inh_FAH16to70	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL		287350	4025350	4.49E-07	30YrCancerRMP_Inh_FAH16to70	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL		287450	4025350	4.56E-07	30YrCancerRMP_Inh_FAH16to70	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL		287550	4025350	4.59E-07	30YrCancerRMP_Inh_FAH16to70	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL		287650	4025350	4.60E-07	30YrCancerRMP_Inh_FAH16to70	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL		287750	4025350	4.56E-07	30YrCancerRMP_Inh_FAH16to70	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL		285550	4025450	1.70E-07	30YrCancerRMP_Inh_FAH16to70	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL		285650	4025450	1.93E-07	30YrCancerRMP_Inh_FAH16to70	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL		285750	4025450	2.19E-07	30YrCancerRMP_Inh_FAH16to70	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL		285850	4025450	2.44E-07	30YrCancerRMP_Inh_FAH16to70	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL		285950	4025450	2.69E-07	30YrCancerRMP_Inh_FAH16to70	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL		286050	4025450	2.93E-07	30YrCancerRMP_Inh_FAH16to70	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL		286150	4025450	3.15E-07	30YrCancerRMP_Inh_FAH16to70	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL		286250	4025450	3.36E-07	30YrCancerRMP_Inh_FAH16to70	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
178	ALL		286350	4025450	3.57E-07	30YrCancerRMP_Inh_FAH16to70	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL		286450	4025450	3.78E-07	30YrCancerRMP_Inh_FAH16to70	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL		286550	4025450	3.99E-07	30YrCancerRMP_Inh_FAH16to70	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL		286650	4025450	4.19E-07	30YrCancerRMP_Inh_FAH16to70	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL		286750	4025450	4.39E-07	30YrCancerRMP_Inh_FAH16to70	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL		286850	4025450	4.58E-07	30YrCancerRMP_Inh_FAH16to70	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL		286950	4025450	4.75E-07	30YrCancerRMP_Inh_FAH16to70	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL		287050	4025450	4.91E-07	30YrCancerRMP_Inh_FAH16to70	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL		287150	4025450	5.05E-07	30YrCancerRMP_Inh_FAH16to70	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL		287250	4025450	5.16E-07	30YrCancerRMP_Inh_FAH16to70	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL		287350	4025450	5.24E-07	30YrCancerRMP_Inh_FAH16to70	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL		287450	4025450	5.30E-07	30YrCancerRMP_Inh_FAH16to70	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL		287550	4025450	5.31E-07	30YrCancerRMP_Inh_FAH16to70	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL		287650	4025450	5.29E-07	30YrCancerRMP_Inh_FAH16to70	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL		287750	4025450	5.21E-07	30YrCancerRMP_Inh_FAH16to70	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL		287850	4025450	5.08E-07	30YrCancerRMP_Inh_FAH16to70	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL		287950	4025450	4.90E-07	30YrCancerRMP_Inh_FAH16to70	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL		285450	4025550	1.86E-07	30YrCancerRMP_Inh_FAH16to70	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL		285550	4025550	2.14E-07	30YrCancerRMP_Inh_FAH16to70	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL		285650	4025550	2.46E-07	30YrCancerRMP_Inh_FAH16to70	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL		285750	4025550	2.79E-07	30YrCancerRMP_Inh_FAH16to70	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL		285850	4025550	3.09E-07	30YrCancerRMP_Inh_FAH16to70	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL		285950	4025550	3.37E-07	30YrCancerRMP_Inh_FAH16to70	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL		286050	4025550	3.63E-07	30YrCancerRMP_Inh_FAH16to70	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL		286150	4025550	3.87E-07	30YrCancerRMP_Inh_FAH16to70	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL		286250	4025550	4.11E-07	30YrCancerRMP_Inh_FAH16to70	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL		286350	4025550	4.35E-07	30YrCancerRMP_Inh_FAH16to70	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL		286450	4025550	4.61E-07	30YrCancerRMP_Inh_FAH16to70	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL		286550	4025550	4.86E-07	30YrCancerRMP_Inh_FAH16to70	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL		286650	4025550	5.11E-07	30YrCancerRMP_Inh_FAH16to70	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL		286750	4025550	5.34E-07	30YrCancerRMP_Inh_FAH16to70	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL		286850	4025550	5.54E-07	30YrCancerRMP_Inh_FAH16to70	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL		286950	4025550	5.72E-07	30YrCancerRMP_Inh_FAH16to70	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL		287050	4025550	5.88E-07	30YrCancerRMP_Inh_FAH16to70	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL		287150	4025550	6.02E-07	30YrCancerRMP_Inh_FAH16to70	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL		287250	4025550	6.13E-07	30YrCancerRMP_Inh_FAH16to70	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL		287350	4025550	6.21E-07	30YrCancerRMP_Inh_FAH16to70	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL		287450	4025550	6.24E-07	30YrCancerRMP_Inh_FAH16to70	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL		287550	4025550	6.23E-07	30YrCancerRMP_Inh_FAH16to70	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL		287650	4025550	6.15E-07	30YrCancerRMP_Inh_FAH16to70	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL		287750	4025550	6.00E-07	30YrCancerRMP_Inh_FAH16to70	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL		287850	4025550	5.78E-07	30YrCancerRMP_Inh_FAH16to70	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL		287950	4025550	5.48E-07	30YrCancerRMP_Inh_FAH16to70	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL		288050	4025550	5.13E-07	30YrCancerRMP_Inh_FAH16to70	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL		285350	4025650	2.05E-07	30YrCancerRMP_Inh_FAH16to70	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL		285450	4025650	2.41E-07	30YrCancerRMP_Inh_FAH16to70	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL		285550	4025650	2.84E-07	30YrCancerRMP_Inh_FAH16to70	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL		285650	4025650	3.28E-07	30YrCancerRMP_Inh_FAH16to70	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL		285750	4025650	3.67E-07	30YrCancerRMP_Inh_FAH16to70	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL		285850	4025650	4.01E-07	30YrCancerRMP_Inh_FAH16to70	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL		285950	4025650	4.30E-07	30YrCancerRMP_Inh_FAH16to70	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL		286050	4025650	4.58E-07	30YrCancerRMP_Inh_FAH16to70	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL		286150	4025650	4.85E-07	30YrCancerRMP_Inh_FAH16to70	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL		286250	4025650	5.14E-07	30YrCancerRMP_Inh_FAH16to70	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL		286350	4025650	5.45E-07	30YrCancerRMP_Inh_FAH16to70	5.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL		286450	4025650	5.77E-07	30YrCancerRMP_Inh_FAH16to70	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL		286550	4025650	6.08E-07	30YrCancerRMP_Inh_FAH16to70	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL		286650	4025650	6.38E-07	30YrCancerRMP_Inh_FAH16to70	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL		286750	4025650	6.64E-07	30YrCancerRMP_Inh_FAH16to70	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
237	ALL		286850	4025650	6.86E-07	30YrCancerRMP_Inh_FAH16to70	6.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL		286950	4025650	7.05E-07	30YrCancerRMP_Inh_FAH16to70	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL		287050	4025650	7.20E-07	30YrCancerRMP_Inh_FAH16to70	7.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL		287150	4025650	7.32E-07	30YrCancerRMP_Inh_FAH16to70	7.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL		287250	4025650	7.43E-07	30YrCancerRMP_Inh_FAH16to70	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL		287350	4025650	7.50E-07	30YrCancerRMP_Inh_FAH16to70	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL		287450	4025650	7.51E-07	30YrCancerRMP_Inh_FAH16to70	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL		287550	4025650	7.45E-07	30YrCancerRMP_Inh_FAH16to70	7.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL		287650	4025650	7.29E-07	30YrCancerRMP_Inh_FAH16to70	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL		287750	4025650	7.02E-07	30YrCancerRMP_Inh_FAH16to70	7.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL		287850	4025650	6.63E-07	30YrCancerRMP_Inh_FAH16to70	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL		287950	4025650	6.14E-07	30YrCancerRMP_Inh_FAH16to70	6.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL		288050	4025650	5.66E-07	30YrCancerRMP_Inh_FAH16to70	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL		288150	4025650	5.21E-07	30YrCancerRMP_Inh_FAH16to70	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL		285250	4025750	2.25E-07	30YrCancerRMP_Inh_FAH16to70	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL		285350	4025750	2.75E-07	30YrCancerRMP_Inh_FAH16to70	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL		285450	4025750	3.37E-07	30YrCancerRMP_Inh_FAH16to70	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL		285550	4025750	4.02E-07	30YrCancerRMP_Inh_FAH16to70	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL		285650	4025750	4.57E-07	30YrCancerRMP_Inh_FAH16to70	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL		285750	4025750	5.01E-07	30YrCancerRMP_Inh_FAH16to70	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL		285850	4025750	5.36E-07	30YrCancerRMP_Inh_FAH16to70	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL		285950	4025750	5.67E-07	30YrCancerRMP_Inh_FAH16to70	5.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL		286050	4025750	5.98E-07	30YrCancerRMP_Inh_FAH16to70	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL		286150	4025750	6.32E-07	30YrCancerRMP_Inh_FAH16to70	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL		286250	4025750	6.70E-07	30YrCancerRMP_Inh_FAH16to70	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL		286350	4025750	7.10E-07	30YrCancerRMP_Inh_FAH16to70	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL		286450	4025750	7.51E-07	30YrCancerRMP_Inh_FAH16to70	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL		286550	4025750	7.89E-07	30YrCancerRMP_Inh_FAH16to70	7.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL		286650	4025750	8.22E-07	30YrCancerRMP_Inh_FAH16to70	8.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL		286750	4025750	8.50E-07	30YrCancerRMP_Inh_FAH16to70	8.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL		286850	4025750	8.74E-07	30YrCancerRMP_Inh_FAH16to70	8.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL		286950	4025750	8.93E-07	30YrCancerRMP_Inh_FAH16to70	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL		287050	4025750	9.08E-07	30YrCancerRMP_Inh_FAH16to70	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL		287150	4025750	9.20E-07	30YrCancerRMP_Inh_FAH16to70	9.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL		287250	4025750	9.31E-07	30YrCancerRMP_Inh_FAH16to70	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL		287350	4025750	9.37E-07	30YrCancerRMP_Inh_FAH16to70	9.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL		287450	4025750	9.35E-07	30YrCancerRMP_Inh_FAH16to70	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL		287550	4025750	9.21E-07	30YrCancerRMP_Inh_FAH16to70	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL		287650	4025750	8.89E-07	30YrCancerRMP_Inh_FAH16to70	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL		287750	4025750	8.37E-07	30YrCancerRMP_Inh_FAH16to70	8.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL		287850	4025750	7.64E-07	30YrCancerRMP_Inh_FAH16to70	7.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL		287950	4025750	6.93E-07	30YrCancerRMP_Inh_FAH16to70	6.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL		288050	4025750	6.30E-07	30YrCancerRMP_Inh_FAH16to70	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL		288150	4025750	5.77E-07	30YrCancerRMP_Inh_FAH16to70	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL		288250	4025750	5.34E-07	30YrCancerRMP_Inh_FAH16to70	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL		285250	4025850	3.17E-07	30YrCancerRMP_Inh_FAH16to70	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL		285350	4025850	4.14E-07	30YrCancerRMP_Inh_FAH16to70	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL		285450	4025850	5.24E-07	30YrCancerRMP_Inh_FAH16to70	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL		285550	4025850	6.10E-07	30YrCancerRMP_Inh_FAH16to70	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL		285650	4025850	6.70E-07	30YrCancerRMP_Inh_FAH16to70	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL		285750	4025850	7.14E-07	30YrCancerRMP_Inh_FAH16to70	7.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL		285850	4025850	7.52E-07	30YrCancerRMP_Inh_FAH16to70	7.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL		285950	4025850	7.89E-07	30YrCancerRMP_Inh_FAH16to70	7.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL		286050	4025850	8.31E-07	30YrCancerRMP_Inh_FAH16to70	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL		286150	4025850	8.78E-07	30YrCancerRMP_Inh_FAH16to70	8.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL		286250	4025850	9.31E-07	30YrCancerRMP_Inh_FAH16to70	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL		286350	4025850	9.85E-07	30YrCancerRMP_Inh_FAH16to70	9.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL		286450	4025850	1.04E-06	30YrCancerRMP_Inh_FAH16to70	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL		286550	4025850	1.08E-06	30YrCancerRMP_Inh_FAH16to70	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
296	ALL		286650	4025850	1.12E-06	30YrCancerRMP_Inh_FAH16to70	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL		286750	4025850	1.15E-06	30YrCancerRMP_Inh_FAH16to70	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL		286850	4025850	1.17E-06	30YrCancerRMP_Inh_FAH16to70	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL		286950	4025850	1.19E-06	30YrCancerRMP_Inh_FAH16to70	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL		287050	4025850	1.21E-06	30YrCancerRMP_Inh_FAH16to70	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL		287150	4025850	1.23E-06	30YrCancerRMP_Inh_FAH16to70	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL		287250	4025850	1.24E-06	30YrCancerRMP_Inh_FAH16to70	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL		287350	4025850	1.24E-06	30YrCancerRMP_Inh_FAH16to70	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL		287450	4025850	1.23E-06	30YrCancerRMP_Inh_FAH16to70	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL		287950	4025850	7.98E-07	30YrCancerRMP_Inh_FAH16to70	7.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL		288050	4025850	7.25E-07	30YrCancerRMP_Inh_FAH16to70	7.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL		288150	4025850	6.66E-07	30YrCancerRMP_Inh_FAH16to70	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL		288250	4025850	6.17E-07	30YrCancerRMP_Inh_FAH16to70	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL		285150	4025950	3.69E-07	30YrCancerRMP_Inh_FAH16to70	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL		285250	4025950	5.41E-07	30YrCancerRMP_Inh_FAH16to70	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL		285350	4025950	7.75E-07	30YrCancerRMP_Inh_FAH16to70	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL		285450	4025950	9.34E-07	30YrCancerRMP_Inh_FAH16to70	9.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL		285550	4025950	1.02E-06	30YrCancerRMP_Inh_FAH16to70	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL		285650	4025950	1.09E-06	30YrCancerRMP_Inh_FAH16to70	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL		285750	4025950	1.14E-06	30YrCancerRMP_Inh_FAH16to70	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL		285850	4025950	1.18E-06	30YrCancerRMP_Inh_FAH16to70	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL		285950	4025950	1.23E-06	30YrCancerRMP_Inh_FAH16to70	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL		286050	4025950	1.29E-06	30YrCancerRMP_Inh_FAH16to70	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL		286150	4025950	1.37E-06	30YrCancerRMP_Inh_FAH16to70	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL		286250	4025950	1.45E-06	30YrCancerRMP_Inh_FAH16to70	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL		286350	4025950	1.53E-06	30YrCancerRMP_Inh_FAH16to70	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL		286450	4025950	1.61E-06	30YrCancerRMP_Inh_FAH16to70	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL		286550	4025950	1.66E-06	30YrCancerRMP_Inh_FAH16to70	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL		286650	4025950	1.70E-06	30YrCancerRMP_Inh_FAH16to70	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL		286750	4025950	1.74E-06	30YrCancerRMP_Inh_FAH16to70	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL		286850	4025950	1.77E-06	30YrCancerRMP_Inh_FAH16to70	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL		286950	4025950	1.80E-06	30YrCancerRMP_Inh_FAH16to70	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL		287050	4025950	1.82E-06	30YrCancerRMP_Inh_FAH16to70	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL		287150	4025950	1.85E-06	30YrCancerRMP_Inh_FAH16to70	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL		287250	4025950	1.87E-06	30YrCancerRMP_Inh_FAH16to70	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL		287350	4025950	1.87E-06	30YrCancerRMP_Inh_FAH16to70	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL		287450	4025950	1.86E-06	30YrCancerRMP_Inh_FAH16to70	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL		285150	4026050	7.49E-07	30YrCancerRMP_Inh_FAH16to70	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL		285250	4026050	1.62E-06	30YrCancerRMP_Inh_FAH16to70	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL		285350	4026050	2.04E-06	30YrCancerRMP_Inh_FAH16to70	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL		285450	4026050	2.21E-06	30YrCancerRMP_Inh_FAH16to70	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL		285550	4026050	2.31E-06	30YrCancerRMP_Inh_FAH16to70	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL		285650	4026050	2.39E-06	30YrCancerRMP_Inh_FAH16to70	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL		285750	4026050	2.46E-06	30YrCancerRMP_Inh_FAH16to70	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL		285850	4026050	2.53E-06	30YrCancerRMP_Inh_FAH16to70	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL		285950	4026050	2.63E-06	30YrCancerRMP_Inh_FAH16to70	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL		286050	4026050	2.80E-06	30YrCancerRMP_Inh_FAH16to70	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL		286150	4026050	2.98E-06	30YrCancerRMP_Inh_FAH16to70	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL		286250	4026050	3.15E-06	30YrCancerRMP_Inh_FAH16to70	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL		286350	4026050	3.35E-06	30YrCancerRMP_Inh_FAH16to70	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL		286450	4026050	3.51E-06	30YrCancerRMP_Inh_FAH16to70	3.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL		286550	4026050	3.61E-06	30YrCancerRMP_Inh_FAH16to70	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL		286650	4026050	3.72E-06	30YrCancerRMP_Inh_FAH16to70	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL		286750	4026050	3.84E-06	30YrCancerRMP_Inh_FAH16to70	3.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL		286850	4026050	3.97E-06	30YrCancerRMP_Inh_FAH16to70	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL		286950	4026050	4.10E-06	30YrCancerRMP_Inh_FAH16to70	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL		287050	4026050	4.23E-06	30YrCancerRMP_Inh_FAH16to70	4.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL		287150	4026050	4.42E-06	30YrCancerRMP_Inh_FAH16to70	4.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL		287250	4026050	4.53E-06	30YrCancerRMP_Inh_FAH16to70	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
355	ALL		287350	4026050	4.64E-06	30YrCancerRMP_Inh_FAH16to70	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL		287450	4026050	4.86E-06	30YrCancerRMP_Inh_FAH16to70	4.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL		285150	4026150	6.30E-06	30YrCancerRMP_Inh_FAH16to70	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL		285250	4026150	7.35E-06	30YrCancerRMP_Inh_FAH16to70	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL		285350	4026150	7.24E-06	30YrCancerRMP_Inh_FAH16to70	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL		285450	4026150	7.05E-06	30YrCancerRMP_Inh_FAH16to70	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL		285550	4026150	6.84E-06	30YrCancerRMP_Inh_FAH16to70	6.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL		285650	4026150	6.64E-06	30YrCancerRMP_Inh_FAH16to70	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL		285750	4026150	6.47E-06	30YrCancerRMP_Inh_FAH16to70	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL		285850	4026150	6.31E-06	30YrCancerRMP_Inh_FAH16to70	6.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL		287650	4026150	1.91E-06	30YrCancerRMP_Inh_FAH16to70	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL		287750	4026150	1.59E-06	30YrCancerRMP_Inh_FAH16to70	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL		287850	4026150	1.41E-06	30YrCancerRMP_Inh_FAH16to70	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL		287950	4026150	1.28E-06	30YrCancerRMP_Inh_FAH16to70	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL		288050	4026150	1.18E-06	30YrCancerRMP_Inh_FAH16to70	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL		288150	4026150	1.10E-06	30YrCancerRMP_Inh_FAH16to70	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL		288250	4026150	1.04E-06	30YrCancerRMP_Inh_FAH16to70	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL		285150	4026250	1.30E-06	30YrCancerRMP_Inh_FAH16to70	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL		285250	4026250	1.49E-06	30YrCancerRMP_Inh_FAH16to70	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL		285350	4026250	1.56E-06	30YrCancerRMP_Inh_FAH16to70	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL		285450	4026250	1.61E-06	30YrCancerRMP_Inh_FAH16to70	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL		285550	4026250	1.64E-06	30YrCancerRMP_Inh_FAH16to70	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL		285650	4026250	1.68E-06	30YrCancerRMP_Inh_FAH16to70	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL		285750	4026250	1.73E-06	30YrCancerRMP_Inh_FAH16to70	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL		285850	4026250	1.82E-06	30YrCancerRMP_Inh_FAH16to70	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL		287650	4026250	1.35E-06	30YrCancerRMP_Inh_FAH16to70	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL		287750	4026250	1.07E-06	30YrCancerRMP_Inh_FAH16to70	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL		287850	4026250	9.07E-07	30YrCancerRMP_Inh_FAH16to70	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL		287950	4026250	7.95E-07	30YrCancerRMP_Inh_FAH16to70	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL		288050	4026250	7.14E-07	30YrCancerRMP_Inh_FAH16to70	7.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL		288150	4026250	6.53E-07	30YrCancerRMP_Inh_FAH16to70	6.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL		288250	4026250	6.05E-07	30YrCancerRMP_Inh_FAH16to70	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL		285150	4026350	8.41E-07	30YrCancerRMP_Inh_FAH16to70	8.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL		285250	4026350	9.21E-07	30YrCancerRMP_Inh_FAH16to70	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL		285350	4026350	9.84E-07	30YrCancerRMP_Inh_FAH16to70	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL		285450	4026350	1.03E-06	30YrCancerRMP_Inh_FAH16to70	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL		285550	4026350	1.08E-06	30YrCancerRMP_Inh_FAH16to70	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL		285650	4026350	1.13E-06	30YrCancerRMP_Inh_FAH16to70	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL		285750	4026350	1.22E-06	30YrCancerRMP_Inh_FAH16to70	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL		285850	4026350	1.36E-06	30YrCancerRMP_Inh_FAH16to70	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL		287650	4026350	1.15E-06	30YrCancerRMP_Inh_FAH16to70	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL		287750	4026350	8.85E-07	30YrCancerRMP_Inh_FAH16to70	8.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL		287850	4026350	7.28E-07	30YrCancerRMP_Inh_FAH16to70	7.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL		287950	4026350	6.25E-07	30YrCancerRMP_Inh_FAH16to70	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL		288050	4026350	5.52E-07	30YrCancerRMP_Inh_FAH16to70	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL		288150	4026350	4.97E-07	30YrCancerRMP_Inh_FAH16to70	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL		288250	4026350	4.52E-07	30YrCancerRMP_Inh_FAH16to70	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL		285150	4026450	6.65E-07	30YrCancerRMP_Inh_FAH16to70	6.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL		285250	4026450	7.17E-07	30YrCancerRMP_Inh_FAH16to70	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL		285350	4026450	7.68E-07	30YrCancerRMP_Inh_FAH16to70	7.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL		285450	4026450	8.19E-07	30YrCancerRMP_Inh_FAH16to70	8.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL		285550	4026450	8.75E-07	30YrCancerRMP_Inh_FAH16to70	8.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL		285650	4026450	9.45E-07	30YrCancerRMP_Inh_FAH16to70	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL		285750	4026450	1.04E-06	30YrCancerRMP_Inh_FAH16to70	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL		285850	4026450	1.19E-06	30YrCancerRMP_Inh_FAH16to70	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL		287650	4026450	1.04E-06	30YrCancerRMP_Inh_FAH16to70	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL		287750	4026450	7.65E-07	30YrCancerRMP_Inh_FAH16to70	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL		287850	4026450	6.12E-07	30YrCancerRMP_Inh_FAH16to70	6.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL		287950	4026450	5.17E-07	30YrCancerRMP_Inh_FAH16to70	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
414	ALL		288050	4026450	4.52E-07	30YrCancerRMP_Inh_FAH16to70	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL		288150	4026450	4.04E-07	30YrCancerRMP_Inh_FAH16to70	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL		288250	4026450	3.65E-07	30YrCancerRMP_Inh_FAH16to70	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL		285150	4026550	5.75E-07	30YrCancerRMP_Inh_FAH16to70	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL		285250	4026550	6.19E-07	30YrCancerRMP_Inh_FAH16to70	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL		285350	4026550	6.65E-07	30YrCancerRMP_Inh_FAH16to70	6.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL		285450	4026550	7.19E-07	30YrCancerRMP_Inh_FAH16to70	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL		285550	4026550	7.82E-07	30YrCancerRMP_Inh_FAH16to70	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL		285650	4026550	8.59E-07	30YrCancerRMP_Inh_FAH16to70	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL		285750	4026550	9.63E-07	30YrCancerRMP_Inh_FAH16to70	9.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL		285850	4026550	1.11E-06	30YrCancerRMP_Inh_FAH16to70	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL		287650	4026550	9.01E-07	30YrCancerRMP_Inh_FAH16to70	9.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL		287750	4026550	6.53E-07	30YrCancerRMP_Inh_FAH16to70	6.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL		287850	4026550	5.18E-07	30YrCancerRMP_Inh_FAH16to70	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL		287950	4026550	4.35E-07	30YrCancerRMP_Inh_FAH16to70	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL		288050	4026550	3.79E-07	30YrCancerRMP_Inh_FAH16to70	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL		288150	4026550	3.37E-07	30YrCancerRMP_Inh_FAH16to70	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL		288250	4026550	3.02E-07	30YrCancerRMP_Inh_FAH16to70	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL		285150	4026650	5.23E-07	30YrCancerRMP_Inh_FAH16to70	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL		285250	4026650	5.64E-07	30YrCancerRMP_Inh_FAH16to70	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL		285350	4026650	6.09E-07	30YrCancerRMP_Inh_FAH16to70	6.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL		285450	4026650	6.61E-07	30YrCancerRMP_Inh_FAH16to70	6.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL		285550	4026650	7.25E-07	30YrCancerRMP_Inh_FAH16to70	7.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL		285650	4026650	8.04E-07	30YrCancerRMP_Inh_FAH16to70	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL		285750	4026650	9.06E-07	30YrCancerRMP_Inh_FAH16to70	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL		285850	4026650	1.06E-06	30YrCancerRMP_Inh_FAH16to70	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL		287650	4026650	7.58E-07	30YrCancerRMP_Inh_FAH16to70	7.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL		287750	4026650	5.46E-07	30YrCancerRMP_Inh_FAH16to70	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL		287850	4026650	4.40E-07	30YrCancerRMP_Inh_FAH16to70	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL		287950	4026650	3.72E-07	30YrCancerRMP_Inh_FAH16to70	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL		288050	4026650	3.23E-07	30YrCancerRMP_Inh_FAH16to70	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL		288150	4026650	2.86E-07	30YrCancerRMP_Inh_FAH16to70	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL		288250	4026650	2.56E-07	30YrCancerRMP_Inh_FAH16to70	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL		285150	4026750	4.87E-07	30YrCancerRMP_Inh_FAH16to70	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL		285250	4026750	5.25E-07	30YrCancerRMP_Inh_FAH16to70	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL		285350	4026750	5.68E-07	30YrCancerRMP_Inh_FAH16to70	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL		285450	4026750	6.19E-07	30YrCancerRMP_Inh_FAH16to70	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL		285550	4026750	6.81E-07	30YrCancerRMP_Inh_FAH16to70	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL		285650	4026750	7.61E-07	30YrCancerRMP_Inh_FAH16to70	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL		285750	4026750	8.63E-07	30YrCancerRMP_Inh_FAH16to70	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL		285850	4026750	1.01E-06	30YrCancerRMP_Inh_FAH16to70	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL		287650	4026750	6.03E-07	30YrCancerRMP_Inh_FAH16to70	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL		287750	4026750	4.61E-07	30YrCancerRMP_Inh_FAH16to70	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL		287850	4026750	3.79E-07	30YrCancerRMP_Inh_FAH16to70	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL		287950	4026750	3.23E-07	30YrCancerRMP_Inh_FAH16to70	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL		288050	4026750	2.81E-07	30YrCancerRMP_Inh_FAH16to70	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL		288150	4026750	2.48E-07	30YrCancerRMP_Inh_FAH16to70	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL		288250	4026750	2.21E-07	30YrCancerRMP_Inh_FAH16to70	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL		285150	4026850	4.58E-07	30YrCancerRMP_Inh_FAH16to70	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL		285250	4026850	4.94E-07	30YrCancerRMP_Inh_FAH16to70	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL		285350	4026850	5.35E-07	30YrCancerRMP_Inh_FAH16to70	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL		285450	4026850	5.84E-07	30YrCancerRMP_Inh_FAH16to70	5.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL		285550	4026850	6.44E-07	30YrCancerRMP_Inh_FAH16to70	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL		285650	4026850	7.20E-07	30YrCancerRMP_Inh_FAH16to70	7.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL		285750	4026850	8.18E-07	30YrCancerRMP_Inh_FAH16to70	8.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL		285850	4026850	9.49E-07	30YrCancerRMP_Inh_FAH16to70	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL		286750	4026850	1.02E-06	30YrCancerRMP_Inh_FAH16to70	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL		286850	4026850	8.53E-07	30YrCancerRMP_Inh_FAH16to70	8.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL		286950	4026850	7.70E-07	30YrCancerRMP_Inh_FAH16to70	7.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
473	ALL		287050	4026850	7.11E-07	30YrCancerRMP_Inh_FAH16to70	7.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL		287150	4026850	6.61E-07	30YrCancerRMP_Inh_FAH16to70	6.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL		287250	4026850	6.16E-07	30YrCancerRMP_Inh_FAH16to70	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL		287350	4026850	5.76E-07	30YrCancerRMP_Inh_FAH16to70	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL		287450	4026850	5.54E-07	30YrCancerRMP_Inh_FAH16to70	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL		287650	4026850	5.35E-07	30YrCancerRMP_Inh_FAH16to70	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL		287750	4026850	4.09E-07	30YrCancerRMP_Inh_FAH16to70	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL		287850	4026850	3.37E-07	30YrCancerRMP_Inh_FAH16to70	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL		287950	4026850	2.88E-07	30YrCancerRMP_Inh_FAH16to70	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL		288050	4026850	2.50E-07	30YrCancerRMP_Inh_FAH16to70	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL		288150	4026850	2.20E-07	30YrCancerRMP_Inh_FAH16to70	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL		288250	4026850	1.95E-07	30YrCancerRMP_Inh_FAH16to70	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL		285150	4026950	4.32E-07	30YrCancerRMP_Inh_FAH16to70	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL		285250	4026950	4.65E-07	30YrCancerRMP_Inh_FAH16to70	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL		285350	4026950	5.03E-07	30YrCancerRMP_Inh_FAH16to70	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL		285450	4026950	5.48E-07	30YrCancerRMP_Inh_FAH16to70	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL		285550	4026950	6.01E-07	30YrCancerRMP_Inh_FAH16to70	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL		285650	4026950	6.65E-07	30YrCancerRMP_Inh_FAH16to70	6.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL		285750	4026950	7.45E-07	30YrCancerRMP_Inh_FAH16to70	7.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL		285850	4026950	8.51E-07	30YrCancerRMP_Inh_FAH16to70	8.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL		285950	4026950	9.75E-07	30YrCancerRMP_Inh_FAH16to70	9.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL		286050	4026950	1.04E-06	30YrCancerRMP_Inh_FAH16to70	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL		286150	4026950	1.06E-06	30YrCancerRMP_Inh_FAH16to70	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL		286250	4026950	1.05E-06	30YrCancerRMP_Inh_FAH16to70	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL		286350	4026950	1.01E-06	30YrCancerRMP_Inh_FAH16to70	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL		286450	4026950	9.45E-07	30YrCancerRMP_Inh_FAH16to70	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL		286550	4026950	8.60E-07	30YrCancerRMP_Inh_FAH16to70	8.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL		286650	4026950	7.52E-07	30YrCancerRMP_Inh_FAH16to70	7.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL		286750	4026950	6.75E-07	30YrCancerRMP_Inh_FAH16to70	6.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL		286850	4026950	6.18E-07	30YrCancerRMP_Inh_FAH16to70	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL		286950	4026950	5.70E-07	30YrCancerRMP_Inh_FAH16to70	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL		287050	4026950	5.32E-07	30YrCancerRMP_Inh_FAH16to70	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL		287150	4026950	4.99E-07	30YrCancerRMP_Inh_FAH16to70	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL		287250	4026950	4.71E-07	30YrCancerRMP_Inh_FAH16to70	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL		287350	4026950	4.52E-07	30YrCancerRMP_Inh_FAH16to70	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL		287450	4026950	4.59E-07	30YrCancerRMP_Inh_FAH16to70	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL		287650	4026950	4.92E-07	30YrCancerRMP_Inh_FAH16to70	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL		287750	4026950	3.75E-07	30YrCancerRMP_Inh_FAH16to70	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL		287850	4026950	3.08E-07	30YrCancerRMP_Inh_FAH16to70	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL		287950	4026950	2.62E-07	30YrCancerRMP_Inh_FAH16to70	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL		288050	4026950	2.26E-07	30YrCancerRMP_Inh_FAH16to70	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL		288150	4026950	1.98E-07	30YrCancerRMP_Inh_FAH16to70	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL		288250	4026950	1.75E-07	30YrCancerRMP_Inh_FAH16to70	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL		285150	4027050	4.08E-07	30YrCancerRMP_Inh_FAH16to70	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL		285250	4027050	4.38E-07	30YrCancerRMP_Inh_FAH16to70	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL		285350	4027050	4.72E-07	30YrCancerRMP_Inh_FAH16to70	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL		285450	4027050	5.10E-07	30YrCancerRMP_Inh_FAH16to70	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL		285550	4027050	5.52E-07	30YrCancerRMP_Inh_FAH16to70	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL		285650	4027050	5.99E-07	30YrCancerRMP_Inh_FAH16to70	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL		285750	4027050	6.48E-07	30YrCancerRMP_Inh_FAH16to70	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL		285850	4027050	6.92E-07	30YrCancerRMP_Inh_FAH16to70	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL		285950	4027050	7.22E-07	30YrCancerRMP_Inh_FAH16to70	7.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL		286050	4027050	7.38E-07	30YrCancerRMP_Inh_FAH16to70	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL		286150	4027050	7.35E-07	30YrCancerRMP_Inh_FAH16to70	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL		286250	4027050	7.19E-07	30YrCancerRMP_Inh_FAH16to70	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL		286350	4027050	6.90E-07	30YrCancerRMP_Inh_FAH16to70	6.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL		286450	4027050	6.52E-07	30YrCancerRMP_Inh_FAH16to70	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL		286550	4027050	6.05E-07	30YrCancerRMP_Inh_FAH16to70	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL		286650	4027050	5.59E-07	30YrCancerRMP_Inh_FAH16to70	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
532	ALL		286750	4027050	5.21E-07	30YrCancerRMP_Inh_FAH16to70	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL		286850	4027050	4.86E-07	30YrCancerRMP_Inh_FAH16to70	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL		286950	4027050	4.56E-07	30YrCancerRMP_Inh_FAH16to70	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL		287050	4027050	4.29E-07	30YrCancerRMP_Inh_FAH16to70	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL		287150	4027050	4.06E-07	30YrCancerRMP_Inh_FAH16to70	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL		287250	4027050	3.90E-07	30YrCancerRMP_Inh_FAH16to70	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL		287350	4027050	3.83E-07	30YrCancerRMP_Inh_FAH16to70	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL		287450	4027050	4.04E-07	30YrCancerRMP_Inh_FAH16to70	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL		287650	4027050	4.63E-07	30YrCancerRMP_Inh_FAH16to70	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL		287750	4027050	3.51E-07	30YrCancerRMP_Inh_FAH16to70	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL		287850	4027050	2.85E-07	30YrCancerRMP_Inh_FAH16to70	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL		287950	4027050	2.41E-07	30YrCancerRMP_Inh_FAH16to70	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL		288050	4027050	2.06E-07	30YrCancerRMP_Inh_FAH16to70	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL		288150	4027050	1.79E-07	30YrCancerRMP_Inh_FAH16to70	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL		288250	4027050	1.58E-07	30YrCancerRMP_Inh_FAH16to70	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL		285250	4027150	4.11E-07	30YrCancerRMP_Inh_FAH16to70	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL		285350	4027150	4.39E-07	30YrCancerRMP_Inh_FAH16to70	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL		285450	4027150	4.67E-07	30YrCancerRMP_Inh_FAH16to70	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL		285550	4027150	4.96E-07	30YrCancerRMP_Inh_FAH16to70	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL		285650	4027150	5.24E-07	30YrCancerRMP_Inh_FAH16to70	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL		285750	4027150	5.48E-07	30YrCancerRMP_Inh_FAH16to70	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL		285850	4027150	5.64E-07	30YrCancerRMP_Inh_FAH16to70	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL		285950	4027150	5.73E-07	30YrCancerRMP_Inh_FAH16to70	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL		286050	4027150	5.73E-07	30YrCancerRMP_Inh_FAH16to70	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL		286150	4027150	5.66E-07	30YrCancerRMP_Inh_FAH16to70	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL		286250	4027150	5.51E-07	30YrCancerRMP_Inh_FAH16to70	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL		286350	4027150	5.31E-07	30YrCancerRMP_Inh_FAH16to70	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL		286450	4027150	5.06E-07	30YrCancerRMP_Inh_FAH16to70	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL		286550	4027150	4.76E-07	30YrCancerRMP_Inh_FAH16to70	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL		286650	4027150	4.50E-07	30YrCancerRMP_Inh_FAH16to70	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL		286750	4027150	4.24E-07	30YrCancerRMP_Inh_FAH16to70	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL		286850	4027150	4.01E-07	30YrCancerRMP_Inh_FAH16to70	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL		286950	4027150	3.79E-07	30YrCancerRMP_Inh_FAH16to70	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL		287050	4027150	3.61E-07	30YrCancerRMP_Inh_FAH16to70	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL		287150	4027150	3.48E-07	30YrCancerRMP_Inh_FAH16to70	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL		287250	4027150	3.38E-07	30YrCancerRMP_Inh_FAH16to70	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL		287350	4027150	3.40E-07	30YrCancerRMP_Inh_FAH16to70	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL		287450	4027150	3.67E-07	30YrCancerRMP_Inh_FAH16to70	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL		287650	4027150	4.39E-07	30YrCancerRMP_Inh_FAH16to70	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL		287750	4027150	3.28E-07	30YrCancerRMP_Inh_FAH16to70	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL		287850	4027150	2.65E-07	30YrCancerRMP_Inh_FAH16to70	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL		287950	4027150	2.21E-07	30YrCancerRMP_Inh_FAH16to70	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL		288050	4027150	1.88E-07	30YrCancerRMP_Inh_FAH16to70	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL		288150	4027150	1.62E-07	30YrCancerRMP_Inh_FAH16to70	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL		288250	4027150	1.42E-07	30YrCancerRMP_Inh_FAH16to70	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL		285250	4027250	3.81E-07	30YrCancerRMP_Inh_FAH16to70	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL		285350	4027250	4.01E-07	30YrCancerRMP_Inh_FAH16to70	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL		285450	4027250	4.21E-07	30YrCancerRMP_Inh_FAH16to70	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL		285550	4027250	4.39E-07	30YrCancerRMP_Inh_FAH16to70	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL		285650	4027250	4.54E-07	30YrCancerRMP_Inh_FAH16to70	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL		285750	4027250	4.64E-07	30YrCancerRMP_Inh_FAH16to70	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL		285850	4027250	4.69E-07	30YrCancerRMP_Inh_FAH16to70	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL		285950	4027250	4.69E-07	30YrCancerRMP_Inh_FAH16to70	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL		286050	4027250	4.66E-07	30YrCancerRMP_Inh_FAH16to70	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL		286150	4027250	4.58E-07	30YrCancerRMP_Inh_FAH16to70	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL		286250	4027250	4.46E-07	30YrCancerRMP_Inh_FAH16to70	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL		286350	4027250	4.31E-07	30YrCancerRMP_Inh_FAH16to70	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL		286450	4027250	4.12E-07	30YrCancerRMP_Inh_FAH16to70	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL		286550	4027250	3.93E-07	30YrCancerRMP_Inh_FAH16to70	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
591	ALL		286650	4027250	3.75E-07	30YrCancerRMP_Inh_FAH16to70	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL		286750	4027250	3.57E-07	30YrCancerRMP_Inh_FAH16to70	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL		286850	4027250	3.40E-07	30YrCancerRMP_Inh_FAH16to70	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL		286950	4027250	3.26E-07	30YrCancerRMP_Inh_FAH16to70	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL		287050	4027250	3.14E-07	30YrCancerRMP_Inh_FAH16to70	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL		287150	4027250	3.06E-07	30YrCancerRMP_Inh_FAH16to70	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL		287250	4027250	3.03E-07	30YrCancerRMP_Inh_FAH16to70	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL		287350	4027250	3.10E-07	30YrCancerRMP_Inh_FAH16to70	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL		287450	4027250	3.39E-07	30YrCancerRMP_Inh_FAH16to70	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL		287650	4027250	4.21E-07	30YrCancerRMP_Inh_FAH16to70	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL		287750	4027250	3.08E-07	30YrCancerRMP_Inh_FAH16to70	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL		287850	4027250	2.44E-07	30YrCancerRMP_Inh_FAH16to70	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL		287950	4027250	2.01E-07	30YrCancerRMP_Inh_FAH16to70	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL		288050	4027250	1.70E-07	30YrCancerRMP_Inh_FAH16to70	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL		288150	4027250	1.47E-07	30YrCancerRMP_Inh_FAH16to70	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL		285350	4027350	3.63E-07	30YrCancerRMP_Inh_FAH16to70	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL		285450	4027350	3.76E-07	30YrCancerRMP_Inh_FAH16to70	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL		285550	4027350	3.86E-07	30YrCancerRMP_Inh_FAH16to70	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL		285650	4027350	3.94E-07	30YrCancerRMP_Inh_FAH16to70	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL		285750	4027350	3.96E-07	30YrCancerRMP_Inh_FAH16to70	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL		285850	4027350	3.97E-07	30YrCancerRMP_Inh_FAH16to70	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL		285950	4027350	3.94E-07	30YrCancerRMP_Inh_FAH16to70	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL		286050	4027350	3.90E-07	30YrCancerRMP_Inh_FAH16to70	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL		286150	4027350	3.83E-07	30YrCancerRMP_Inh_FAH16to70	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL		286250	4027350	3.73E-07	30YrCancerRMP_Inh_FAH16to70	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL		286350	4027350	3.61E-07	30YrCancerRMP_Inh_FAH16to70	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL		286450	4027350	3.47E-07	30YrCancerRMP_Inh_FAH16to70	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL		286550	4027350	3.34E-07	30YrCancerRMP_Inh_FAH16to70	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL		286650	4027350	3.20E-07	30YrCancerRMP_Inh_FAH16to70	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL		286750	4027350	3.07E-07	30YrCancerRMP_Inh_FAH16to70	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL		286850	4027350	2.96E-07	30YrCancerRMP_Inh_FAH16to70	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL		286950	4027350	2.86E-07	30YrCancerRMP_Inh_FAH16to70	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL		287050	4027350	2.78E-07	30YrCancerRMP_Inh_FAH16to70	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL		287150	4027350	2.74E-07	30YrCancerRMP_Inh_FAH16to70	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL		287250	4027350	2.76E-07	30YrCancerRMP_Inh_FAH16to70	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL		287350	4027350	2.86E-07	30YrCancerRMP_Inh_FAH16to70	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL		287450	4027350	3.17E-07	30YrCancerRMP_Inh_FAH16to70	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL		287650	4027350	4.02E-07	30YrCancerRMP_Inh_FAH16to70	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL		287750	4027350	2.86E-07	30YrCancerRMP_Inh_FAH16to70	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL		287850	4027350	2.21E-07	30YrCancerRMP_Inh_FAH16to70	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL		287950	4027350	1.79E-07	30YrCancerRMP_Inh_FAH16to70	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL		288050	4027350	1.51E-07	30YrCancerRMP_Inh_FAH16to70	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL		285350	4027450	3.27E-07	30YrCancerRMP_Inh_FAH16to70	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL		285450	4027450	3.35E-07	30YrCancerRMP_Inh_FAH16to70	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL		285550	4027450	3.41E-07	30YrCancerRMP_Inh_FAH16to70	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL		285650	4027450	3.43E-07	30YrCancerRMP_Inh_FAH16to70	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL		285750	4027450	3.43E-07	30YrCancerRMP_Inh_FAH16to70	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL		285850	4027450	3.41E-07	30YrCancerRMP_Inh_FAH16to70	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL		285950	4027450	3.38E-07	30YrCancerRMP_Inh_FAH16to70	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL		286050	4027450	3.34E-07	30YrCancerRMP_Inh_FAH16to70	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL		286150	4027450	3.27E-07	30YrCancerRMP_Inh_FAH16to70	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL		286250	4027450	3.18E-07	30YrCancerRMP_Inh_FAH16to70	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL		286350	4027450	3.08E-07	30YrCancerRMP_Inh_FAH16to70	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL		286450	4027450	2.98E-07	30YrCancerRMP_Inh_FAH16to70	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL		286550	4027450	2.89E-07	30YrCancerRMP_Inh_FAH16to70	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL		286650	4027450	2.78E-07	30YrCancerRMP_Inh_FAH16to70	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL		286750	4027450	2.69E-07	30YrCancerRMP_Inh_FAH16to70	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL		286850	4027450	2.61E-07	30YrCancerRMP_Inh_FAH16to70	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL		286950	4027450	2.55E-07	30YrCancerRMP_Inh_FAH16to70	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:19:52 AM - Cancer Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK
650	ALL		287050	4027450	2.50E-07	30YrCancerRMP_Inh_FAH16to70	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL		287150	4027450	2.49E-07	30YrCancerRMP_Inh_FAH16to70	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL		287250	4027450	2.53E-07	30YrCancerRMP_Inh_FAH16to70	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL		287350	4027450	2.66E-07	30YrCancerRMP_Inh_FAH16to70	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL		287450	4027450	2.97E-07	30YrCancerRMP_Inh_FAH16to70	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL		285450	4027550	2.99E-07	30YrCancerRMP_Inh_FAH16to70	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL		285550	4027550	3.01E-07	30YrCancerRMP_Inh_FAH16to70	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL		285650	4027550	3.02E-07	30YrCancerRMP_Inh_FAH16to70	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL		285750	4027550	3.00E-07	30YrCancerRMP_Inh_FAH16to70	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL		285850	4027550	2.98E-07	30YrCancerRMP_Inh_FAH16to70	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL		285950	4027550	2.94E-07	30YrCancerRMP_Inh_FAH16to70	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL		286050	4027550	2.89E-07	30YrCancerRMP_Inh_FAH16to70	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL		286150	4027550	2.83E-07	30YrCancerRMP_Inh_FAH16to70	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL		286250	4027550	2.76E-07	30YrCancerRMP_Inh_FAH16to70	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL		286350	4027550	2.68E-07	30YrCancerRMP_Inh_FAH16to70	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL		286450	4027550	2.60E-07	30YrCancerRMP_Inh_FAH16to70	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL		286550	4027550	2.53E-07	30YrCancerRMP_Inh_FAH16to70	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL		286650	4027550	2.45E-07	30YrCancerRMP_Inh_FAH16to70	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL		286750	4027550	2.39E-07	30YrCancerRMP_Inh_FAH16to70	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL		286850	4027550	2.34E-07	30YrCancerRMP_Inh_FAH16to70	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL		286950	4027550	2.30E-07	30YrCancerRMP_Inh_FAH16to70	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL		287050	4027550	2.28E-07	30YrCancerRMP_Inh_FAH16to70	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL		287150	4027550	2.29E-07	30YrCancerRMP_Inh_FAH16to70	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL		287250	4027550	2.34E-07	30YrCancerRMP_Inh_FAH16to70	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL		287350	4027550	2.47E-07	30YrCancerRMP_Inh_FAH16to70	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL		287450	4027550	2.79E-07	30YrCancerRMP_Inh_FAH16to70	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL		285650	4027650	2.67E-07	30YrCancerRMP_Inh_FAH16to70	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL		285750	4027650	2.65E-07	30YrCancerRMP_Inh_FAH16to70	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL		285850	4027650	2.62E-07	30YrCancerRMP_Inh_FAH16to70	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL		285950	4027650	2.58E-07	30YrCancerRMP_Inh_FAH16to70	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL		286050	4027650	2.54E-07	30YrCancerRMP_Inh_FAH16to70	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL		286150	4027650	2.48E-07	30YrCancerRMP_Inh_FAH16to70	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL		286250	4027650	2.42E-07	30YrCancerRMP_Inh_FAH16to70	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL		286350	4027650	2.35E-07	30YrCancerRMP_Inh_FAH16to70	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL		286450	4027650	2.29E-07	30YrCancerRMP_Inh_FAH16to70	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL		286550	4027650	2.23E-07	30YrCancerRMP_Inh_FAH16to70	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL		286650	4027650	2.18E-07	30YrCancerRMP_Inh_FAH16to70	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL		286750	4027650	2.14E-07	30YrCancerRMP_Inh_FAH16to70	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL		286850	4027650	2.10E-07	30YrCancerRMP_Inh_FAH16to70	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL		286950	4027650	2.08E-07	30YrCancerRMP_Inh_FAH16to70	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		287571.6	4026060	NonCancer	0.00E+00	1.03E-05	0.00E+00	6.86E-07	6.86E-07	6.86E-07	9.02E-04	0.00E+00	2.57E-05	0.00E+00	6.86E-07	3.85E-04	0.00E+00	0.00E+00	9.02E-04
2	ALL		287591.3	4026058	NonCancer	0.00E+00	8.63E-06	0.00E+00	5.73E-07	5.73E-07	5.73E-07	8.23E-04	0.00E+00	2.14E-05	0.00E+00	5.73E-07	3.22E-04	0.00E+00	0.00E+00	8.23E-04
3	ALL		287608.8	4026060	NonCancer	0.00E+00	7.40E-06	0.00E+00	4.91E-07	4.91E-07	4.91E-07	8.09E-04	0.00E+00	1.84E-05	0.00E+00	4.91E-07	2.77E-04	0.00E+00	0.00E+00	8.09E-04
4	ALL		287627.5	4026058	NonCancer	0.00E+00	6.36E-06	0.00E+00	4.22E-07	4.22E-07	4.22E-07	7.61E-04	0.00E+00	1.58E-05	0.00E+00	4.22E-07	2.38E-04	0.00E+00	0.00E+00	7.61E-04
5	ALL		287645	4026059	NonCancer	0.00E+00	5.53E-06	0.00E+00	3.67E-07	3.67E-07	3.67E-07	7.50E-04	0.00E+00	1.38E-05	0.00E+00	3.67E-07	2.08E-04	0.00E+00	0.00E+00	7.50E-04
6	ALL		287668.8	4026058	NonCancer	0.00E+00	4.64E-06	0.00E+00	3.08E-07	3.08E-07	3.08E-07	7.16E-04	0.00E+00	1.16E-05	0.00E+00	3.08E-07	1.75E-04	0.00E+00	0.00E+00	7.16E-04
7	ALL		287685.4	4026045	NonCancer	0.00E+00	4.26E-06	0.00E+00	2.83E-07	2.83E-07	2.83E-07	6.05E-04	0.00E+00	1.06E-05	0.00E+00	2.83E-07	1.61E-04	0.00E+00	0.00E+00	6.05E-04
8	ALL		287707.1	4026046	NonCancer	0.00E+00	3.69E-06	0.00E+00	2.45E-07	2.45E-07	2.45E-07	5.95E-04	0.00E+00	9.18E-06	0.00E+00	2.45E-07	1.39E-04	0.00E+00	0.00E+00	5.95E-04
9	ALL		287727.8	4026047	NonCancer	0.00E+00	3.23E-06	0.00E+00	2.15E-07	2.15E-07	2.15E-07	5.89E-04	0.00E+00	8.06E-06	0.00E+00	2.15E-07	1.22E-04	0.00E+00	0.00E+00	5.89E-04
10	ALL		287768.1	4026043	NonCancer	0.00E+00	2.59E-06	0.00E+00	1.72E-07	1.72E-07	1.72E-07	5.42E-04	0.00E+00	6.46E-06	0.00E+00	1.72E-07	9.83E-05	0.00E+00	0.00E+00	5.42E-04
11	ALL		287785.7	4026043	NonCancer	0.00E+00	2.36E-06	0.00E+00	1.57E-07	1.57E-07	1.57E-07	5.34E-04	0.00E+00	5.88E-06	0.00E+00	1.57E-07	8.95E-05	0.00E+00	0.00E+00	5.34E-04
12	ALL		287812.6	4026043	NonCancer	0.00E+00	2.06E-06	0.00E+00	1.37E-07	1.37E-07	1.37E-07	5.23E-04	0.00E+00	5.13E-06	0.00E+00	1.37E-07	7.82E-05	0.00E+00	0.00E+00	5.23E-04
13	ALL		287832.2	4026044	NonCancer	0.00E+00	1.87E-06	0.00E+00	1.24E-07	1.24E-07	1.24E-07	5.23E-04	0.00E+00	4.66E-06	0.00E+00	1.24E-07	7.11E-05	0.00E+00	0.00E+00	5.23E-04
14	ALL		287878.7	4026049	NonCancer	0.00E+00	1.51E-06	0.00E+00	9.99E-08	9.99E-08	9.99E-08	5.48E-04	0.00E+00	3.75E-06	0.00E+00	9.99E-08	5.73E-05	0.00E+00	0.00E+00	5.48E-04
15	ALL		287895.3	4026055	NonCancer	0.00E+00	1.39E-06	0.00E+00	9.25E-08	9.25E-08	9.25E-08	5.94E-04	0.00E+00	3.47E-06	0.00E+00	9.25E-08	5.31E-05	0.00E+00	0.00E+00	5.94E-04
16	ALL		287914.9	4026048	NonCancer	0.00E+00	1.31E-06	0.00E+00	8.68E-08	8.68E-08	8.68E-08	5.33E-04	0.00E+00	3.26E-06	0.00E+00	8.68E-08	4.98E-05	0.00E+00	0.00E+00	5.33E-04
17	ALL		287571.6	4026021	NonCancer	0.00E+00	9.83E-06	0.00E+00	6.53E-07	6.53E-07	6.53E-07	6.97E-04	0.00E+00	2.44E-05	0.00E+00	6.53E-07	3.66E-04	0.00E+00	0.00E+00	6.97E-04
18	ALL		287572.6	4026000	NonCancer	0.00E+00	9.03E-06	0.00E+00	5.99E-07	5.99E-07	5.99E-07	6.08E-04	0.00E+00	2.25E-05	0.00E+00	5.99E-07	3.37E-04	0.00E+00	0.00E+00	6.08E-04
19	ALL		287570.6	4025981	NonCancer	0.00E+00	8.30E-06	0.00E+00	5.51E-07	5.51E-07	5.51E-07	5.50E-04	0.00E+00	2.06E-05	0.00E+00	5.51E-07	3.11E-04	0.00E+00	0.00E+00	5.50E-04
20	ALL		287569.5	4025963	NonCancer	0.00E+00	7.47E-06	0.00E+00	4.96E-07	4.96E-07	4.96E-07	5.00E-04	0.00E+00	1.86E-05	0.00E+00	4.96E-07	2.80E-04	0.00E+00	0.00E+00	5.00E-04
21	ALL		287566.4	4025940	NonCancer	0.00E+00	6.49E-06	0.00E+00	4.31E-07	4.31E-07	4.31E-07	4.50E-04	0.00E+00	1.62E-05	0.00E+00	4.31E-07	2.45E-04	0.00E+00	0.00E+00	4.50E-04
22	ALL		287601.6	4026020	NonCancer	0.00E+00	7.74E-06	0.00E+00	5.13E-07	5.13E-07	5.13E-07	6.11E-04	0.00E+00	1.92E-05	0.00E+00	5.13E-07	2.89E-04	0.00E+00	0.00E+00	6.11E-04
23	ALL		287622.3	4026024	NonCancer	0.00E+00	6.63E-06	0.00E+00	4.40E-07	4.40E-07	4.40E-07	5.81E-04	0.00E+00	1.65E-05	0.00E+00	4.40E-07	2.48E-04	0.00E+00	0.00E+00	5.81E-04
24	ALL		287639.9	4026024	NonCancer	0.00E+00	5.85E-06	0.00E+00	3.88E-07	3.88E-07	3.88E-07	5.56E-04	0.00E+00	1.46E-05	0.00E+00	3.88E-07	2.19E-04	0.00E+00	0.00E+00	5.56E-04
25	ALL		287659.5	4026026	NonCancer	0.00E+00	5.13E-06	0.00E+00	3.41E-07	3.41E-07	3.41E-07	5.41E-04	0.00E+00	1.28E-05	0.00E+00	3.41E-07	1.93E-04	0.00E+00	0.00E+00	5.41E-04
26	ALL		287607.8	4025998	NonCancer	0.00E+00	7.15E-06	0.00E+00	4.74E-07	4.74E-07	4.74E-07	5.39E-04	0.00E+00	1.78E-05	0.00E+00	4.74E-07	2.68E-04	0.00E+00	0.00E+00	5.39E-04
27	ALL		287604.7	4025982	NonCancer	0.00E+00	6.97E-06	0.00E+00	4.63E-07	4.63E-07	4.63E-07	5.09E-04	0.00E+00	1.73E-05	0.00E+00	4.63E-07	2.61E-04	0.00E+00	0.00E+00	5.09E-04
28	ALL		287632.6	4025979	NonCancer	0.00E+00	5.88E-06	0.00E+00	3.90E-07	3.90E-07	3.90E-07	4.67E-04	0.00E+00	1.46E-05	0.00E+00	3.90E-07	2.21E-04	0.00E+00	0.00E+00	4.67E-04
29	ALL		287653.3	4025981	NonCancer	0.00E+00	5.20E-06	0.00E+00	3.45E-07	3.45E-07	3.45E-07	4.48E-04	0.00E+00	1.29E-05	0.00E+00	3.45E-07	1.95E-04	0.00E+00	0.00E+00	4.48E-04
30	ALL		287626.4	4025947	NonCancer	0.00E+00	5.47E-06	0.00E+00	3.63E-07	3.63E-07	3.63E-07	4.23E-04	0.00E+00	1.36E-05	0.00E+00	3.63E-07	2.06E-04	0.00E+00	0.00E+00	4.23E-04
31	ALL		287661.6	4025946	NonCancer	0.00E+00	4.68E-06	0.00E+00	3.10E-07	3.10E-07	3.10E-07	3.93E-04	0.00E+00	1.16E-05	0.00E+00	3.10E-07	1.76E-04	0.00E+00	0.00E+00	3.93E-04
32	ALL		287685.4	4025990	NonCancer	0.00E+00	4.31E-06	0.00E+00	2.86E-07	2.86E-07	2.86E-07	4.33E-04	0.00E+00	1.07E-05	0.00E+00	2.86E-07	1.62E-04	0.00E+00	0.00E+00	4.33E-04
33	ALL		287702.9	4025987	NonCancer	0.00E+00	3.89E-06	0.00E+00	2.58E-07	2.58E-07	2.58E-07	4.15E-04	0.00E+00	9.69E-06	0.00E+00	2.58E-07	1.47E-04	0.00E+00	0.00E+00	4.15E-04
34	ALL		287725.7	4025989	NonCancer	0.00E+00	3.45E-06	0.00E+00	2.29E-07	2.29E-07	2.29E-07	4.03E-04	0.00E+00	8.59E-06	0.00E+00	2.29E-07	1.30E-04	0.00E+00	0.00E+00	4.03E-04
35	ALL		287746.4	4025988	NonCancer	0.00E+00	3.11E-06	0.00E+00	2.06E-07	2.06E-07	2.06E-07	3.89E-04	0.00E+00	7.74E-06	0.00E+00	2.06E-07	1.17E-04	0.00E+00	0.00E+00	3.89E-04
36	ALL		287763.9	4025985	NonCancer	0.00E+00	2.85E-06	0.00E+00	1.89E-07	1.89E-07	1.89E-07	3.75E-04	0.00E+00	7.10E-06	0.00E+00	1.89E-07	1.08E-04	0.00E+00	0.00E+00	3.75E-04
37	ALL		287772.2	4025953	NonCancer	0.00E+00	2.71E-06	0.00E+00	1.80E-07	1.80E-07	1.80E-07	3.32E-04	0.00E+00	6.75E-06	0.00E+00	1.80E-07	1.03E-04	0.00E+00	0.00E+00	3.32E-04
38	ALL		287726.7	4025951	NonCancer	0.00E+00	3.38E-06	0.00E+00	2.24E-07	2.24E-07	2.24E-07	3.54E-04	0.00E+00	8.41E-06	0.00E+00	2.24E-07	1.27E-04	0.00E+00	0.00E+00	3.54E-04
39	ALL		287704	4025953	NonCancer	0.00E+00	3.81E-06	0.00E+00	2.53E-07	2.53E-07	2.53E-07	3.70E-04	0.00E+00	9.49E-06	0.00E+00	2.53E-07	1.44E-04	0.00E+00	0.00E+00	3.70E-04
40	ALL		287683.3	4025955	NonCancer	0.00E+00	4.26E-06	0.00E+00	2.83E-07	2.83E-07	2.83E-07	3.87E-04	0.00E+00	1.06E-05	0.00E+00	2.83E-07	1.61E-04	0.00E+00	0.00E+00	3.87E-04
41	ALL		287575.7	4025898	NonCancer	0.00E+00	4.73E-06	0.00E+00	3.14E-07	3.14E-07	3.14E-07	3.77E-04	0.00E+00	1.18E-05	0.00E+00	3.14E-07	1.80E-04	0.00E+00	0.00E+00	3.77E-04
42	ALL		287578.9	4025876	NonCancer	0.00E+00	3.97E-06	0.00E+00	2.63E-07	2.63E-07	2.63E-07	3.47E-04	0.00E+00	9.90E-06	0.00E+00	2.63E-07	1.51E-04	0.00E+00	0.00E+00	3.47E-04
43	ALL		287578.9	4025852	NonCancer	0.00E+00	3.31E-06	0.00E+00	2.20E-07	2.20E-07	2.20E-07	3.22E-04	0.00E+00	8.26E-06	0.00E+00	2.20E-07	1.27E-04	0.00E+00	0.00E+00	3.22E-04
44	ALL		287577.8	4025828	NonCancer	0.00E+00	2.79E-06	0.00E+00	1.85E-07	1.85E-07	1.85E-07	3.00E-04	0.00E+00	6.95E-06	0.00E+00	1.85E-07	1.07E-04	0.00E+00	0.00E+00	3.00E-04
45	ALL		287584	4025805	NonCancer	0.00E+00	2.41E-06	0.00E+00	1.60E-07	1.60E-07	1.60E-07	2.81E-04	0.00E+00	6.02E-06	0.00E+00	1.60E-07	9.24E-05	0.00E+00	0.00E+00	2.81E-04
46	ALL		287622.3	4025810	NonCancer	0.00E+00	2.63E-06	0.00E+00	1.74E-07	1.74E-07	1.74E-07	2.80E-04	0.00E+00	6.55E-06	0.00E+00	1.74E-07	1.00E-04	0.00E+00	0.00E+00	2.80E-04
47	ALL		287627.5	4025851	NonCancer	0.00E+00	3.40E-06	0.00E+00	2.26E-07	2.26E-07	2.26E-07	3.11E-04	0.00E+00	8.48E-06	0.00E+00	2.26E-07	1.29E-04	0.00E+00	0.00E+00	3.11E-04
48	ALL		287626.4	4025873	NonCancer	0.00E+00	3.85E-06	0.00E+00	2.56E-07	2.56E-07	2.56E-07	3.32E-04	0.00E+00	9.60E-06	0.00E+00	2.56E-07	1.46E-04	0.00E+00	0.00E+00	3.32E-04
49	ALL		287635.7	4025897	NonCancer	0.00E+00	4.26E-06	0.00E+00	2.83E-07	2.83E-07	2.83E-07	3.54E-04	0.00E+00	1.06E-05	0.00E+00	2.83E-07	1.61E-04	0.00E+00	0.00E+00	3.54E-04
50	ALL		287664.7	4025897	NonCancer	0.00E+00	3.91E-06	0.00E+00	2.59E-07	2.59E-07	2.59E-07	3.41E-04	0.00E+00	9.73E-06	0.00E+00	2.59E-07	1.48E-04	0.00E+00	0.00E+00	3.41E-04
51	ALL		287689.5	4025901	NonCancer	0.00E+00	3.67E-06	0.00E+00	2.43E-07	2.43E-07	2.43E-07	3.32E-04	0.00E+00	9.13E-06	0.00E+00	2.43E-07	1.39E-04	0.00E+00	0.00E+00	3.32E-04
52	ALL		287709.1	4025893	NonCancer	0.00E+00	3.35E-06	0.00E+00	2.22E-07	2.22E-07	2.22E-07	3.15E-04	0.00E+00	8.34E-06	0.00E+00	2.22E-07	1.27E-04	0.00E+00	0.00E+00	3.15E-04
53	ALL		287727.8	4025897	NonCancer	0.00E+00	3.17E-06	0.00E+00	2.11E-07	2.11E-07	2.11E-07	3.10E-04	0.00E+00	7.90E-06	0.00E+00	2.11E-07	1.20E-04	0.00E+00	0.00E+00	3.10E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
54	ALL		287752.6	4025892	NonCancer	0.00E+00	2.86E-06	0.00E+00	1.90E-07	1.90E-07	1.90E-07	2.95E-04	0.00E+00	7.13E-06	0.00E+00	1.90E-07	1.08E-04	0.00E+00	0.00E+00	2.95E-04
55	ALL		287772.2	4025896	NonCancer	0.00E+00	2.66E-06	0.00E+00	1.77E-07	1.77E-07	1.77E-07	2.89E-04	0.00E+00	6.63E-06	0.00E+00	1.77E-07	1.01E-04	0.00E+00	0.00E+00	2.89E-04
56	ALL		287798.1	4025899	NonCancer	0.00E+00	2.39E-06	0.00E+00	1.58E-07	1.58E-07	1.58E-07	2.81E-04	0.00E+00	5.95E-06	0.00E+00	1.58E-07	9.04E-05	0.00E+00	0.00E+00	2.81E-04
57	ALL		287817.7	4025897	NonCancer	0.00E+00	2.20E-06	0.00E+00	1.46E-07	1.46E-07	1.46E-07	2.72E-04	0.00E+00	5.47E-06	0.00E+00	1.46E-07	8.32E-05	0.00E+00	0.00E+00	2.72E-04
58	ALL		287837.4	4025899	NonCancer	0.00E+00	2.03E-06	0.00E+00	1.35E-07	1.35E-07	1.35E-07	2.67E-04	0.00E+00	5.05E-06	0.00E+00	1.35E-07	7.69E-05	0.00E+00	0.00E+00	2.67E-04
59	ALL		287857	4025899	NonCancer	0.00E+00	1.88E-06	0.00E+00	1.25E-07	1.25E-07	1.25E-07	2.61E-04	0.00E+00	4.68E-06	0.00E+00	1.25E-07	7.13E-05	0.00E+00	0.00E+00	2.61E-04
60	ALL		287881.8	4025891	NonCancer	0.00E+00	1.71E-06	0.00E+00	1.14E-07	1.14E-07	1.14E-07	2.49E-04	0.00E+00	4.27E-06	0.00E+00	1.14E-07	6.50E-05	0.00E+00	0.00E+00	2.49E-04
61	ALL		287904.6	4025893	NonCancer	0.00E+00	1.59E-06	0.00E+00	1.05E-07	1.05E-07	1.05E-07	2.44E-04	0.00E+00	3.95E-06	0.00E+00	1.05E-07	6.02E-05	0.00E+00	0.00E+00	2.44E-04
62	ALL		287923.2	4025893	NonCancer	0.00E+00	1.49E-06	0.00E+00	9.91E-08	9.91E-08	9.91E-08	2.39E-04	0.00E+00	3.72E-06	0.00E+00	9.91E-08	5.67E-05	0.00E+00	0.00E+00	2.39E-04
63	ALL		287921.1	4025948	NonCancer	0.00E+00	1.51E-06	0.00E+00	1.00E-07	1.00E-07	1.00E-07	2.74E-04	0.00E+00	3.77E-06	0.00E+00	1.00E-07	5.75E-05	0.00E+00	0.00E+00	2.74E-04
64	ALL		287895.3	4025950	NonCancer	0.00E+00	1.66E-06	0.00E+00	1.10E-07	1.10E-07	1.10E-07	2.83E-04	0.00E+00	4.13E-06	0.00E+00	1.10E-07	6.30E-05	0.00E+00	0.00E+00	2.83E-04
65	ALL		287878.7	4025944	NonCancer	0.00E+00	1.76E-06	0.00E+00	1.17E-07	1.17E-07	1.17E-07	2.83E-04	0.00E+00	4.39E-06	0.00E+00	1.17E-07	6.69E-05	0.00E+00	0.00E+00	2.83E-04
66	ALL		287856	4025943	NonCancer	0.00E+00	1.92E-06	0.00E+00	1.27E-07	1.27E-07	1.27E-07	2.90E-04	0.00E+00	4.78E-06	0.00E+00	1.27E-07	7.27E-05	0.00E+00	0.00E+00	2.90E-04
67	ALL		287837.4	4025946	NonCancer	0.00E+00	2.06E-06	0.00E+00	1.37E-07	1.37E-07	1.37E-07	2.99E-04	0.00E+00	5.13E-06	0.00E+00	1.37E-07	7.81E-05	0.00E+00	0.00E+00	2.99E-04
68	ALL		287810.5	4025948	NonCancer	0.00E+00	2.30E-06	0.00E+00	1.52E-07	1.52E-07	1.52E-07	3.11E-04	0.00E+00	5.72E-06	0.00E+00	1.52E-07	8.70E-05	0.00E+00	0.00E+00	3.11E-04
69	ALL		287812.6	4025992	NonCancer	0.00E+00	2.27E-06	0.00E+00	1.51E-07	1.51E-07	1.51E-07	3.63E-04	0.00E+00	5.66E-06	0.00E+00	1.51E-07	8.61E-05	0.00E+00	0.00E+00	3.63E-04
70	ALL		287833.2	4025991	NonCancer	0.00E+00	2.07E-06	0.00E+00	1.38E-07	1.38E-07	1.38E-07	3.53E-04	0.00E+00	5.16E-06	0.00E+00	1.38E-07	7.86E-05	0.00E+00	0.00E+00	3.53E-04
71	ALL		287852.9	4025990	NonCancer	0.00E+00	1.90E-06	0.00E+00	1.26E-07	1.26E-07	1.26E-07	3.44E-04	0.00E+00	4.75E-06	0.00E+00	1.26E-07	7.23E-05	0.00E+00	0.00E+00	3.44E-04
72	ALL		287876.7	4025988	NonCancer	0.00E+00	1.73E-06	0.00E+00	1.15E-07	1.15E-07	1.15E-07	3.33E-04	0.00E+00	4.31E-06	0.00E+00	1.15E-07	6.57E-05	0.00E+00	0.00E+00	3.33E-04
73	ALL		287891.1	4025986	NonCancer	0.00E+00	1.63E-06	0.00E+00	1.08E-07	1.08E-07	1.08E-07	3.25E-04	0.00E+00	4.07E-06	0.00E+00	1.08E-07	6.21E-05	0.00E+00	0.00E+00	3.25E-04
74	ALL		287917	4025991	NonCancer	0.00E+00	1.46E-06	0.00E+00	9.69E-08	9.69E-08	9.69E-08	3.25E-04	0.00E+00	3.64E-06	0.00E+00	9.69E-08	5.56E-05	0.00E+00	0.00E+00	3.25E-04
75	ALL		287644	4025808	NonCancer	0.00E+00	2.64E-06	0.00E+00	1.75E-07	1.75E-07	1.75E-07	2.75E-04	0.00E+00	6.59E-06	0.00E+00	1.75E-07	1.01E-04	0.00E+00	0.00E+00	2.75E-04
76	ALL		287664.7	4025808	NonCancer	0.00E+00	2.65E-06	0.00E+00	1.76E-07	1.76E-07	1.76E-07	2.71E-04	0.00E+00	6.62E-06	0.00E+00	1.76E-07	1.01E-04	0.00E+00	0.00E+00	2.71E-04
77	ALL		287692.6	4025809	NonCancer	0.00E+00	2.60E-06	0.00E+00	1.73E-07	1.73E-07	1.73E-07	2.66E-04	0.00E+00	6.48E-06	0.00E+00	1.73E-07	9.88E-05	0.00E+00	0.00E+00	2.66E-04
78	ALL		287709.1	4025815	NonCancer	0.00E+00	2.57E-06	0.00E+00	1.71E-07	1.71E-07	1.71E-07	2.65E-04	0.00E+00	6.41E-06	0.00E+00	1.71E-07	9.77E-05	0.00E+00	0.00E+00	2.65E-04
79	ALL		287729.8	4025813	NonCancer	0.00E+00	2.45E-06	0.00E+00	1.62E-07	1.62E-07	1.62E-07	2.59E-04	0.00E+00	6.09E-06	0.00E+00	1.62E-07	9.28E-05	0.00E+00	0.00E+00	2.59E-04
80	ALL		287751.5	4025810	NonCancer	0.00E+00	2.32E-06	0.00E+00	1.54E-07	1.54E-07	1.54E-07	2.52E-04	0.00E+00	5.77E-06	0.00E+00	1.54E-07	8.79E-05	0.00E+00	0.00E+00	2.52E-04
81	ALL		287771.2	4025808	NonCancer	0.00E+00	2.20E-06	0.00E+00	1.46E-07	1.46E-07	1.46E-07	2.45E-04	0.00E+00	5.49E-06	0.00E+00	1.46E-07	8.37E-05	0.00E+00	0.00E+00	2.45E-04
82	ALL		287790.8	4025812	NonCancer	0.00E+00	2.13E-06	0.00E+00	1.41E-07	1.41E-07	1.41E-07	2.41E-04	0.00E+00	5.30E-06	0.00E+00	1.41E-07	8.08E-05	0.00E+00	0.00E+00	2.41E-04
83	ALL		287816.7	4025806	NonCancer	0.00E+00	1.98E-06	0.00E+00	1.31E-07	1.31E-07	1.31E-07	2.32E-04	0.00E+00	4.93E-06	0.00E+00	1.31E-07	7.52E-05	0.00E+00	0.00E+00	2.32E-04
84	ALL		287838.4	4025813	NonCancer	0.00E+00	1.90E-06	0.00E+00	1.26E-07	1.26E-07	1.26E-07	2.29E-04	0.00E+00	4.74E-06	0.00E+00	1.26E-07	7.23E-05	0.00E+00	0.00E+00	2.29E-04
85	ALL		287862.2	4025809	NonCancer	0.00E+00	1.78E-06	0.00E+00	1.18E-07	1.18E-07	1.18E-07	2.22E-04	0.00E+00	4.43E-06	0.00E+00	1.18E-07	6.75E-05	0.00E+00	0.00E+00	2.22E-04
86	ALL		287879.8	4025805	NonCancer	0.00E+00	1.68E-06	0.00E+00	1.12E-07	1.12E-07	1.12E-07	2.16E-04	0.00E+00	4.19E-06	0.00E+00	1.12E-07	6.39E-05	0.00E+00	0.00E+00	2.16E-04
87	ALL		287901.5	4025805	NonCancer	0.00E+00	1.58E-06	0.00E+00	1.05E-07	1.05E-07	1.05E-07	2.11E-04	0.00E+00	3.93E-06	0.00E+00	1.05E-07	6.00E-05	0.00E+00	0.00E+00	2.11E-04
88	ALL		287920.1	4025805	NonCancer	0.00E+00	1.49E-06	0.00E+00	9.89E-08	9.89E-08	9.89E-08	2.07E-04	0.00E+00	3.72E-06	0.00E+00	9.89E-08	5.67E-05	0.00E+00	0.00E+00	2.07E-04
89	ALL		287921.1	4025853	NonCancer	0.00E+00	1.49E-06	0.00E+00	9.87E-08	9.87E-08	9.87E-08	2.22E-04	0.00E+00	3.71E-06	0.00E+00	9.87E-08	5.65E-05	0.00E+00	0.00E+00	2.22E-04
90	ALL		287899.4	4025853	NonCancer	0.00E+00	1.60E-06	0.00E+00	1.06E-07	1.06E-07	1.06E-07	2.28E-04	0.00E+00	4.00E-06	0.00E+00	1.06E-07	6.09E-05	0.00E+00	0.00E+00	2.28E-04
91	ALL		287878.7	4025855	NonCancer	0.00E+00	1.73E-06	0.00E+00	1.15E-07	1.15E-07	1.15E-07	2.34E-04	0.00E+00	4.31E-06	0.00E+00	1.15E-07	6.56E-05	0.00E+00	0.00E+00	2.34E-04
92	ALL		287860.1	4025855	NonCancer	0.00E+00	1.85E-06	0.00E+00	1.23E-07	1.23E-07	1.23E-07	2.39E-04	0.00E+00	4.61E-06	0.00E+00	1.23E-07	7.03E-05	0.00E+00	0.00E+00	2.39E-04
93	ALL		287834.3	4025857	NonCancer	0.00E+00	2.04E-06	0.00E+00	1.35E-07	1.35E-07	1.35E-07	2.48E-04	0.00E+00	5.08E-06	0.00E+00	1.35E-07	7.73E-05	0.00E+00	0.00E+00	2.48E-04
94	ALL		287815.7	4025859	NonCancer	0.00E+00	2.18E-06	0.00E+00	1.45E-07	1.45E-07	1.45E-07	2.54E-04	0.00E+00	5.43E-06	0.00E+00	1.45E-07	8.27E-05	0.00E+00	0.00E+00	2.54E-04
95	ALL		287793.9	4025857	NonCancer	0.00E+00	2.34E-06	0.00E+00	1.55E-07	1.55E-07	1.55E-07	2.61E-04	0.00E+00	5.83E-06	0.00E+00	1.55E-07	8.87E-05	0.00E+00	0.00E+00	2.61E-04
96	ALL		287773.3	4025863	NonCancer	0.00E+00	2.53E-06	0.00E+00	1.68E-07	1.68E-07	1.68E-07	2.71E-04	0.00E+00	6.30E-06	0.00E+00	1.68E-07	9.58E-05	0.00E+00	0.00E+00	2.71E-04
97	ALL		287751.5	4025864	NonCancer	0.00E+00	2.71E-06	0.00E+00	1.80E-07	1.80E-07	1.80E-07	2.79E-04	0.00E+00	6.75E-06	0.00E+00	1.80E-07	1.03E-04	0.00E+00	0.00E+00	2.79E-04
98	ALL		287730.9	4025862	NonCancer	0.00E+00	2.86E-06	0.00E+00	1.90E-07	1.90E-07	1.90E-07	2.86E-04	0.00E+00	7.11E-06	0.00E+00	1.90E-07	1.08E-04	0.00E+00	0.00E+00	2.86E-04
99	ALL		287712.2	4025862	NonCancer	0.00E+00	3.00E-06	0.00E+00	1.99E-07	1.99E-07	1.99E-07	2.93E-04	0.00E+00	7.48E-06	0.00E+00	1.99E-07	1.14E-04	0.00E+00	0.00E+00	2.93E-04
100	ALL		287687.4	4025858	NonCancer	0.00E+00	3.16E-06	0.00E+00	2.10E-07	2.10E-07	2.10E-07	2.99E-04	0.00E+00	7.87E-06	0.00E+00	2.10E-07	1.20E-04	0.00E+00	0.00E+00	2.99E-04
101	ALL		287665.7	4025859	NonCancer	0.00E+00	3.35E-06	0.00E+00	2.22E-07	2.22E-07	2.22E-07	3.08E-04	0.00E+00	8.34E-06	0.00E+00	2.22E-07	1.27E-04	0.00E+00	0.00E+00	3.08E-04
102	ALL		287962.2	4026055	NonCancer	0.00E+00	1.09E-06	0.00E+00	7.24E-08	7.24E-08	7.24E-08	5.86E-04	0.00E+00	2.72E-06	0.00E+00	7.24E-08	4.16E-05	0.00E+00	0.00E+00	5.86E-04
103	ALL		287985.6	4026053	NonCancer	0.00E+00	1.01E-06	0.00E+00	6.71E-08	6.71E-08	6.71E-08	5.66E-04	0.00E+00	2.52E-06	0.00E+00	6.71E-08	3.86E-05	0.00E+00	0.00E+00	5.66E-04
104	ALL		288008.1	4026050	NonCancer	0.00E+00	9.45E-07	0.00E+00	6.27E-08	6.27E-08	6.27E-08	5.32E-04	0.00E+00	2.36E-06	0.00E+00	6.27E-08	3.61E-05	0.00E+00	0.00E+00	5.32E-04
105	ALL		288031.5	4026049	NonCancer	0.00E+00	8.81E-07	0.00E+00	5.84E-08	5.84E-08	5.84E-08	5.23E-04	0.00E+00	2.20E-06	0.00E+00	5.84E-08	3.36E-05	0.00E+00	0.00E+00	5.23E-04
106	ALL		288051.6	4026043	NonCancer	0.00E+00	8.36E-07	0.00E+00	5.55E-08	5.55E-08	5.55E-08	4.76E-04	0.00E+00	2.09E-06	0.00E+00	5.55E-08	3.19E-05	0.00E+00	0.00E+00	4.76E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
107	ALL		288078.2	4026044	NonCancer	0.00E+00	7.74E-07	0.00E+00	5.14E-08	5.14E-08	5.14E-08	4.80E-04	0.00E+00	1.93E-06	0.00E+00	5.14E-08	2.96E-05	0.00E+00	0.00E+00	4.80E-04
108	ALL		288092.7	4026042	NonCancer	0.00E+00	7.45E-07	0.00E+00	4.95E-08	4.95E-08	4.95E-08	4.67E-04	0.00E+00	1.86E-06	0.00E+00	4.95E-08	2.85E-05	0.00E+00	0.00E+00	4.67E-04
109	ALL		288110.4	4026046	NonCancer	0.00E+00	7.08E-07	0.00E+00	4.70E-08	4.70E-08	4.70E-08	4.91E-04	0.00E+00	1.76E-06	0.00E+00	4.70E-08	2.70E-05	0.00E+00	0.00E+00	4.91E-04
110	ALL		288137.7	4026043	NonCancer	0.00E+00	6.61E-07	0.00E+00	4.39E-08	4.39E-08	4.39E-08	4.70E-04	0.00E+00	1.65E-06	0.00E+00	4.39E-08	2.53E-05	0.00E+00	0.00E+00	4.70E-04
111	ALL		288154.7	4026046	NonCancer	0.00E+00	6.31E-07	0.00E+00	4.19E-08	4.19E-08	4.19E-08	4.96E-04	0.00E+00	1.57E-06	0.00E+00	4.19E-08	2.41E-05	0.00E+00	0.00E+00	4.96E-04
112	ALL		288177.2	4026042	NonCancer	0.00E+00	6.00E-07	0.00E+00	3.98E-08	3.98E-08	3.98E-08	4.63E-04	0.00E+00	1.50E-06	0.00E+00	3.98E-08	2.29E-05	0.00E+00	0.00E+00	4.63E-04
113	ALL		288223.1	4026042	NonCancer	0.00E+00	5.39E-07	0.00E+00	3.57E-08	3.57E-08	3.57E-08	4.62E-04	0.00E+00	1.34E-06	0.00E+00	3.57E-08	2.06E-05	0.00E+00	0.00E+00	4.62E-04
114	ALL		288264.2	4026046	NonCancer	0.00E+00	4.90E-07	0.00E+00	3.25E-08	3.25E-08	3.25E-08	4.96E-04	0.00E+00	1.22E-06	0.00E+00	3.25E-08	1.87E-05	0.00E+00	0.00E+00	4.96E-04
115	ALL		288294.7	4026042	NonCancer	0.00E+00	4.61E-07	0.00E+00	3.06E-08	3.06E-08	3.06E-08	4.54E-04	0.00E+00	1.15E-06	0.00E+00	3.06E-08	1.77E-05	0.00E+00	0.00E+00	4.54E-04
116	ALL		287966.3	4025995	NonCancer	0.00E+00	1.20E-06	0.00E+00	7.99E-08	7.99E-08	7.99E-08	3.19E-04	0.00E+00	3.00E-06	0.00E+00	7.99E-08	4.59E-05	0.00E+00	0.00E+00	3.19E-04
117	ALL		287984.8	4025995	NonCancer	0.00E+00	1.13E-06	0.00E+00	7.47E-08	7.47E-08	7.47E-08	3.14E-04	0.00E+00	2.81E-06	0.00E+00	7.47E-08	4.30E-05	0.00E+00	0.00E+00	3.14E-04
118	ALL		288008.9	4025997	NonCancer	0.00E+00	1.03E-06	0.00E+00	6.84E-08	6.84E-08	6.84E-08	3.14E-04	0.00E+00	2.57E-06	0.00E+00	6.84E-08	3.93E-05	0.00E+00	0.00E+00	3.14E-04
119	ALL		288028.3	4025997	NonCancer	0.00E+00	9.69E-07	0.00E+00	6.43E-08	6.43E-08	6.43E-08	3.09E-04	0.00E+00	2.42E-06	0.00E+00	6.43E-08	3.70E-05	0.00E+00	0.00E+00	3.09E-04
120	ALL		288051.6	4025996	NonCancer	0.00E+00	9.00E-07	0.00E+00	5.97E-08	5.97E-08	5.97E-08	3.03E-04	0.00E+00	2.25E-06	0.00E+00	5.97E-08	3.44E-05	0.00E+00	0.00E+00	3.03E-04
121	ALL		288073.3	4025999	NonCancer	0.00E+00	8.38E-07	0.00E+00	5.56E-08	5.56E-08	5.56E-08	3.05E-04	0.00E+00	2.09E-06	0.00E+00	5.56E-08	3.20E-05	0.00E+00	0.00E+00	3.05E-04
122	ALL		288091.9	4025998	NonCancer	0.00E+00	7.94E-07	0.00E+00	5.27E-08	5.27E-08	5.27E-08	3.01E-04	0.00E+00	1.98E-06	0.00E+00	5.27E-08	3.03E-05	0.00E+00	0.00E+00	3.01E-04
123	ALL		288113.6	4025997	NonCancer	0.00E+00	7.47E-07	0.00E+00	4.96E-08	4.96E-08	4.96E-08	2.96E-04	0.00E+00	1.86E-06	0.00E+00	4.96E-08	2.86E-05	0.00E+00	0.00E+00	2.96E-04
124	ALL		288153	4025997	NonCancer	0.00E+00	6.72E-07	0.00E+00	4.46E-08	4.46E-08	4.46E-08	2.91E-04	0.00E+00	1.68E-06	0.00E+00	4.46E-08	2.57E-05	0.00E+00	0.00E+00	2.91E-04
125	ALL		288178	4026000	NonCancer	0.00E+00	6.28E-07	0.00E+00	4.17E-08	4.17E-08	4.17E-08	2.92E-04	0.00E+00	1.57E-06	0.00E+00	4.17E-08	2.40E-05	0.00E+00	0.00E+00	2.92E-04
126	ALL		288195.7	4025997	NonCancer	0.00E+00	6.03E-07	0.00E+00	4.00E-08	4.00E-08	4.00E-08	2.85E-04	0.00E+00	1.50E-06	0.00E+00	4.00E-08	2.31E-05	0.00E+00	0.00E+00	2.85E-04
127	ALL		288231.1	4026000	NonCancer	0.00E+00	5.53E-07	0.00E+00	3.67E-08	3.67E-08	3.67E-08	2.87E-04	0.00E+00	1.38E-06	0.00E+00	3.67E-08	2.11E-05	0.00E+00	0.00E+00	2.87E-04
128	ALL		288248.1	4025999	NonCancer	0.00E+00	5.32E-07	0.00E+00	3.53E-08	3.53E-08	3.53E-08	2.83E-04	0.00E+00	1.33E-06	0.00E+00	3.53E-08	2.04E-05	0.00E+00	0.00E+00	2.83E-04
129	ALL		288299.6	4026016	NonCancer	0.00E+00	4.69E-07	0.00E+00	3.11E-08	3.11E-08	3.11E-08	3.23E-04	0.00E+00	1.17E-06	0.00E+00	3.11E-08	1.79E-05	0.00E+00	0.00E+00	3.23E-04
130	ALL		288305.2	4025994	NonCancer	0.00E+00	4.72E-07	0.00E+00	3.14E-08	3.14E-08	3.14E-08	2.68E-04	0.00E+00	1.18E-06	0.00E+00	3.14E-08	1.81E-05	0.00E+00	0.00E+00	2.68E-04
131	ALL		288303.6	4025972	NonCancer	0.00E+00	4.85E-07	0.00E+00	3.22E-08	3.22E-08	3.22E-08	2.33E-04	0.00E+00	1.21E-06	0.00E+00	3.22E-08	1.85E-05	0.00E+00	0.00E+00	2.33E-04
132	ALL		288301.2	4025949	NonCancer	0.00E+00	5.01E-07	0.00E+00	3.32E-08	3.32E-08	3.32E-08	2.10E-04	0.00E+00	1.25E-06	0.00E+00	3.32E-08	1.92E-05	0.00E+00	0.00E+00	2.10E-04
133	ALL		288298.8	4025928	NonCancer	0.00E+00	5.18E-07	0.00E+00	3.44E-08	3.44E-08	3.44E-08	1.95E-04	0.00E+00	1.29E-06	0.00E+00	3.44E-08	1.98E-05	0.00E+00	0.00E+00	1.95E-04
134	ALL		288298	4025909	NonCancer	0.00E+00	5.34E-07	0.00E+00	3.54E-08	3.54E-08	3.54E-08	1.84E-04	0.00E+00	1.33E-06	0.00E+00	3.54E-08	2.04E-05	0.00E+00	0.00E+00	1.84E-04
135	ALL		287966.3	4025949	NonCancer	0.00E+00	1.29E-06	0.00E+00	8.57E-08	8.57E-08	8.57E-08	2.63E-04	0.00E+00	3.22E-06	0.00E+00	8.57E-08	4.92E-05	0.00E+00	0.00E+00	2.63E-04
136	ALL		287985.6	4025949	NonCancer	0.00E+00	1.21E-06	0.00E+00	8.03E-08	8.03E-08	8.03E-08	2.59E-04	0.00E+00	3.02E-06	0.00E+00	8.03E-08	4.61E-05	0.00E+00	0.00E+00	2.59E-04
137	ALL		288009.7	4025950	NonCancer	0.00E+00	1.12E-06	0.00E+00	7.41E-08	7.41E-08	7.41E-08	2.54E-04	0.00E+00	2.78E-06	0.00E+00	7.41E-08	4.26E-05	0.00E+00	0.00E+00	2.54E-04
138	ALL		288027.4	4025947	NonCancer	0.00E+00	1.06E-06	0.00E+00	7.03E-08	7.03E-08	7.03E-08	2.48E-04	0.00E+00	2.64E-06	0.00E+00	7.03E-08	4.04E-05	0.00E+00	0.00E+00	2.48E-04
139	ALL		288052.4	4025946	NonCancer	0.00E+00	9.80E-07	0.00E+00	6.50E-08	6.50E-08	6.50E-08	2.42E-04	0.00E+00	2.44E-06	0.00E+00	6.50E-08	3.74E-05	0.00E+00	0.00E+00	2.42E-04
140	ALL		288074.1	4025947	NonCancer	0.00E+00	9.14E-07	0.00E+00	6.07E-08	6.07E-08	6.07E-08	2.40E-04	0.00E+00	2.28E-06	0.00E+00	6.07E-08	3.49E-05	0.00E+00	0.00E+00	2.40E-04
141	ALL		288097.5	4025946	NonCancer	0.00E+00	8.54E-07	0.00E+00	5.67E-08	5.67E-08	5.67E-08	2.34E-04	0.00E+00	2.13E-06	0.00E+00	5.67E-08	3.26E-05	0.00E+00	0.00E+00	2.34E-04
142	ALL		288117.6	4025950	NonCancer	0.00E+00	8.00E-07	0.00E+00	5.31E-08	5.31E-08	5.31E-08	2.34E-04	0.00E+00	2.00E-06	0.00E+00	5.31E-08	3.06E-05	0.00E+00	0.00E+00	2.34E-04
143	ALL		288175.6	4025951	NonCancer	0.00E+00	6.80E-07	0.00E+00	4.51E-08	4.51E-08	4.51E-08	2.27E-04	0.00E+00	1.70E-06	0.00E+00	4.51E-08	2.60E-05	0.00E+00	0.00E+00	2.27E-04
144	ALL		288252.9	4025973	NonCancer	0.00E+00	5.42E-07	0.00E+00	3.60E-08	3.60E-08	3.60E-08	2.41E-04	0.00E+00	1.35E-06	0.00E+00	3.60E-08	2.07E-05	0.00E+00	0.00E+00	2.41E-04
145	ALL		288255.3	4025954	NonCancer	0.00E+00	5.53E-07	0.00E+00	3.67E-08	3.67E-08	3.67E-08	2.20E-04	0.00E+00	1.38E-06	0.00E+00	3.67E-08	2.12E-05	0.00E+00	0.00E+00	2.20E-04
146	ALL		288252.1	4025930	NonCancer	0.00E+00	5.78E-07	0.00E+00	3.83E-08	3.83E-08	3.83E-08	2.01E-04	0.00E+00	1.44E-06	0.00E+00	3.83E-08	2.21E-05	0.00E+00	0.00E+00	2.01E-04
147	ALL		288200.5	4025947	NonCancer	0.00E+00	6.40E-07	0.00E+00	4.25E-08	4.25E-08	4.25E-08	2.20E-04	0.00E+00	1.60E-06	0.00E+00	4.25E-08	2.45E-05	0.00E+00	0.00E+00	2.20E-04
148	ALL		288219.1	4025924	NonCancer	0.00E+00	6.33E-07	0.00E+00	4.20E-08	4.20E-08	4.20E-08	2.01E-04	0.00E+00	1.58E-06	0.00E+00	4.20E-08	2.42E-05	0.00E+00	0.00E+00	2.01E-04
149	ALL		285750	4025350	NonCancer	0.00E+00	4.62E-08	0.00E+00	3.06E-09	3.06E-09	3.06E-09	4.75E-05	0.00E+00	1.15E-07	0.00E+00	3.06E-09	1.78E-06	0.00E+00	0.00E+00	4.75E-05
150	ALL		285850	4025350	NonCancer	0.00E+00	4.95E-08	0.00E+00	3.28E-09	3.28E-09	3.28E-09	5.31E-05	0.00E+00	1.24E-07	0.00E+00	3.28E-09	1.91E-06	0.00E+00	0.00E+00	5.31E-05
151	ALL		285950	4025350	NonCancer	0.00E+00	5.56E-08	0.00E+00	3.69E-09	3.69E-09	3.69E-09	5.88E-05	0.00E+00	1.39E-07	0.00E+00	3.69E-09	2.16E-06	0.00E+00	0.00E+00	5.88E-05
152	ALL		286050	4025350	NonCancer	0.00E+00	6.42E-08	0.00E+00	4.26E-09	4.26E-09	4.26E-09	6.43E-05	0.00E+00	1.61E-07	0.00E+00	4.26E-09	2.49E-06	0.00E+00	0.00E+00	6.43E-05
153	ALL		286150	4025350	NonCancer	0.00E+00	7.26E-08	0.00E+00	4.81E-09	4.81E-09	4.81E-09	6.98E-05	0.00E+00	1.81E-07	0.00E+00	4.81E-09	2.80E-06	0.00E+00	0.00E+00	6.98E-05
154	ALL		286250	4025350	NonCancer	0.00E+00	7.69E-08	0.00E+00	5.10E-09	5.10E-09	5.10E-09	7.51E-05	0.00E+00	1.92E-07	0.00E+00	5.10E-09	2.95E-06	0.00E+00	0.00E+00	7.51E-05
155	ALL		286350	4025350	NonCancer	0.00E+00	7.81E-08	0.00E+00	5.18E-09	5.18E-09	5.18E-09	8.01E-05	0.00E+00	1.95E-07	0.00E+00	5.18E-09	3.00E-06	0.00E+00	0.00E+00	8.01E-05
156	ALL		286450	4025350	NonCancer	0.00E+00	8.41E-08	0.00E+00	5.58E-09	5.58E-09	5.58E-09	8.49E-05	0.00E+00	2.10E-07	0.00E+00	5.58E-09	3.25E-06	0.00E+00	0.00E+00	8.49E-05
157	ALL		286550	4025350	NonCancer	0.00E+00	9.19E-08	0.00E+00	6.10E-09	6.10E-09	6.10E-09	8.97E-05	0.00E+00	2.29E-07	0.00E+00	6.10E-09	3.53E-06	0.00E+00	0.00E+00	8.97E-05
158	ALL		286650	4025350	NonCancer	0.00E+00	9.32E-08	0.00E+00	6.19E-09	6.19E-09	6.19E-09	9.44E-05	0.00E+00	2.33E-07	0.00E+00	6.19E-09	3.59E-06	0.00E+00	0.00E+00	9.44E-05
159	ALL		286750	4025350	NonCancer	0.00E+00	1.08E-07	0.00E+00	7.16E-09	7.16E-09	7.16E-09	9.90E-05	0.00E+00	2.70E-07	0.00E+00	7.16E-09	4.18E-06	0.00E+00	0.00E+00	9.90E-05

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE1	ENDO	BLOOD	ODOR	GENERAL	MAXHI
160	ALL		286850	4025350	NonCancer	0.00E+00	1.18E-07	0.00E+00	7.83E-09	7.83E-09	7.83E-09	1.04E-04	0.00E+00	2.95E-07	0.00E+00	7.83E-09	4.53E-06	0.00E+00	0.00E+00	1.04E-04
161	ALL		286950	4025350	NonCancer	0.00E+00	1.29E-07	0.00E+00	8.58E-09	8.58E-09	8.58E-09	1.08E-04	0.00E+00	3.23E-07	0.00E+00	8.58E-09	5.01E-06	0.00E+00	0.00E+00	1.08E-04
162	ALL		287050	4025350	NonCancer	0.00E+00	1.59E-07	0.00E+00	1.06E-08	1.06E-08	1.06E-08	1.12E-04	0.00E+00	3.98E-07	0.00E+00	1.06E-08	6.16E-06	0.00E+00	0.00E+00	1.12E-04
163	ALL		287150	4025350	NonCancer	0.00E+00	1.92E-07	0.00E+00	1.28E-08	1.28E-08	1.28E-08	1.16E-04	0.00E+00	4.81E-07	0.00E+00	1.28E-08	7.45E-06	0.00E+00	0.00E+00	1.16E-04
164	ALL		287250	4025350	NonCancer	0.00E+00	2.25E-07	0.00E+00	1.49E-08	1.49E-08	1.49E-08	1.18E-04	0.00E+00	5.62E-07	0.00E+00	1.49E-08	8.65E-06	0.00E+00	0.00E+00	1.18E-04
165	ALL		287350	4025350	NonCancer	0.00E+00	2.54E-07	0.00E+00	1.68E-08	1.68E-08	1.68E-08	1.21E-04	0.00E+00	6.34E-07	0.00E+00	1.68E-08	9.84E-06	0.00E+00	0.00E+00	1.21E-04
166	ALL		287450	4025350	NonCancer	0.00E+00	3.28E-07	0.00E+00	2.18E-08	2.18E-08	2.18E-08	1.22E-04	0.00E+00	8.19E-07	0.00E+00	2.18E-08	1.26E-05	0.00E+00	0.00E+00	1.22E-04
167	ALL		287550	4025350	NonCancer	0.00E+00	3.51E-07	0.00E+00	2.33E-08	2.33E-08	2.33E-08	1.23E-04	0.00E+00	8.77E-07	0.00E+00	2.33E-08	1.35E-05	0.00E+00	0.00E+00	1.23E-04
168	ALL		287650	4025350	NonCancer	0.00E+00	4.05E-07	0.00E+00	2.69E-08	2.69E-08	2.69E-08	1.24E-04	0.00E+00	1.01E-06	0.00E+00	2.69E-08	1.56E-05	0.00E+00	0.00E+00	1.24E-04
169	ALL		287750	4025350	NonCancer	0.00E+00	4.48E-07	0.00E+00	2.97E-08	2.97E-08	2.97E-08	1.23E-04	0.00E+00	1.12E-06	0.00E+00	2.97E-08	1.72E-05	0.00E+00	0.00E+00	1.23E-04
170	ALL		285550	4025450	NonCancer	0.00E+00	4.95E-08	0.00E+00	3.28E-09	3.28E-09	3.28E-09	4.57E-05	0.00E+00	1.23E-07	0.00E+00	3.28E-09	1.90E-06	0.00E+00	0.00E+00	4.57E-05
171	ALL		285650	4025450	NonCancer	0.00E+00	5.05E-08	0.00E+00	3.35E-09	3.35E-09	3.35E-09	5.19E-05	0.00E+00	1.26E-07	0.00E+00	3.35E-09	1.94E-06	0.00E+00	0.00E+00	5.19E-05
172	ALL		285750	4025450	NonCancer	0.00E+00	5.25E-08	0.00E+00	3.48E-09	3.48E-09	3.48E-09	5.88E-05	0.00E+00	1.31E-07	0.00E+00	3.48E-09	2.02E-06	0.00E+00	0.00E+00	5.88E-05
173	ALL		285850	4025450	NonCancer	0.00E+00	5.48E-08	0.00E+00	3.64E-09	3.64E-09	3.64E-09	6.57E-05	0.00E+00	1.37E-07	0.00E+00	3.64E-09	2.11E-06	0.00E+00	0.00E+00	6.57E-05
174	ALL		285950	4025450	NonCancer	0.00E+00	5.77E-08	0.00E+00	3.83E-09	3.83E-09	3.83E-09	7.22E-05	0.00E+00	1.44E-07	0.00E+00	3.83E-09	2.23E-06	0.00E+00	0.00E+00	7.22E-05
175	ALL		286050	4025450	NonCancer	0.00E+00	6.27E-08	0.00E+00	4.16E-09	4.16E-09	4.16E-09	7.86E-05	0.00E+00	1.57E-07	0.00E+00	4.16E-09	2.43E-06	0.00E+00	0.00E+00	7.86E-05
176	ALL		286150	4025450	NonCancer	0.00E+00	7.20E-08	0.00E+00	4.77E-09	4.77E-09	4.77E-09	8.46E-05	0.00E+00	1.80E-07	0.00E+00	4.77E-09	2.79E-06	0.00E+00	0.00E+00	8.46E-05
177	ALL		286250	4025450	NonCancer	0.00E+00	8.44E-08	0.00E+00	5.60E-09	5.60E-09	5.60E-09	9.04E-05	0.00E+00	2.11E-07	0.00E+00	5.60E-09	3.27E-06	0.00E+00	0.00E+00	9.04E-05
178	ALL		286350	4025450	NonCancer	0.00E+00	9.43E-08	0.00E+00	6.26E-09	6.26E-09	6.26E-09	9.60E-05	0.00E+00	2.35E-07	0.00E+00	6.26E-09	3.63E-06	0.00E+00	0.00E+00	9.60E-05
179	ALL		286450	4025450	NonCancer	0.00E+00	9.79E-08	0.00E+00	6.50E-09	6.50E-09	6.50E-09	1.02E-04	0.00E+00	2.44E-07	0.00E+00	6.50E-09	3.76E-06	0.00E+00	0.00E+00	1.02E-04
180	ALL		286550	4025450	NonCancer	0.00E+00	1.04E-07	0.00E+00	6.91E-09	6.91E-09	6.91E-09	1.07E-04	0.00E+00	2.60E-07	0.00E+00	6.91E-09	4.02E-06	0.00E+00	0.00E+00	1.07E-04
181	ALL		286650	4025450	NonCancer	0.00E+00	1.15E-07	0.00E+00	7.66E-09	7.66E-09	7.66E-09	1.13E-04	0.00E+00	2.88E-07	0.00E+00	7.66E-09	4.43E-06	0.00E+00	0.00E+00	1.13E-04
182	ALL		286750	4025450	NonCancer	0.00E+00	1.19E-07	0.00E+00	7.91E-09	7.91E-09	7.91E-09	1.18E-04	0.00E+00	2.98E-07	0.00E+00	7.91E-09	4.60E-06	0.00E+00	0.00E+00	1.18E-04
183	ALL		286850	4025450	NonCancer	0.00E+00	1.42E-07	0.00E+00	9.40E-09	9.40E-09	9.40E-09	1.23E-04	0.00E+00	3.54E-07	0.00E+00	9.40E-09	5.47E-06	0.00E+00	0.00E+00	1.23E-04
184	ALL		286950	4025450	NonCancer	0.00E+00	1.53E-07	0.00E+00	1.01E-08	1.01E-08	1.01E-08	1.28E-04	0.00E+00	3.81E-07	0.00E+00	1.01E-08	5.88E-06	0.00E+00	0.00E+00	1.28E-04
185	ALL		287050	4025450	NonCancer	0.00E+00	1.83E-07	0.00E+00	1.21E-08	1.21E-08	1.21E-08	1.32E-04	0.00E+00	4.57E-07	0.00E+00	1.21E-08	7.10E-06	0.00E+00	0.00E+00	1.32E-04
186	ALL		287150	4025450	NonCancer	0.00E+00	2.31E-07	0.00E+00	1.53E-08	1.53E-08	1.53E-08	1.36E-04	0.00E+00	5.77E-07	0.00E+00	1.53E-08	8.93E-06	0.00E+00	0.00E+00	1.36E-04
187	ALL		287250	4025450	NonCancer	0.00E+00	2.83E-07	0.00E+00	1.88E-08	1.88E-08	1.88E-08	1.39E-04	0.00E+00	7.07E-07	0.00E+00	1.88E-08	1.09E-05	0.00E+00	0.00E+00	1.39E-04
188	ALL		287350	4025450	NonCancer	0.00E+00	3.23E-07	0.00E+00	2.15E-08	2.15E-08	2.15E-08	1.41E-04	0.00E+00	8.09E-07	0.00E+00	2.15E-08	1.26E-05	0.00E+00	0.00E+00	1.41E-04
189	ALL		287450	4025450	NonCancer	0.00E+00	4.25E-07	0.00E+00	2.82E-08	2.82E-08	2.82E-08	1.42E-04	0.00E+00	1.06E-06	0.00E+00	2.82E-08	1.63E-05	0.00E+00	0.00E+00	1.42E-04
190	ALL		287550	4025450	NonCancer	0.00E+00	4.66E-07	0.00E+00	3.09E-08	3.09E-08	3.09E-08	1.43E-04	0.00E+00	1.16E-06	0.00E+00	3.09E-08	1.80E-05	0.00E+00	0.00E+00	1.43E-04
191	ALL		287650	4025450	NonCancer	0.00E+00	5.42E-07	0.00E+00	3.60E-08	3.60E-08	3.60E-08	1.42E-04	0.00E+00	1.35E-06	0.00E+00	3.60E-08	2.09E-05	0.00E+00	0.00E+00	1.42E-04
192	ALL		287750	4025450	NonCancer	0.00E+00	6.03E-07	0.00E+00	4.00E-08	4.00E-08	4.00E-08	1.40E-04	0.00E+00	1.51E-06	0.00E+00	4.00E-08	2.32E-05	0.00E+00	0.00E+00	1.40E-04
193	ALL		287850	4025450	NonCancer	0.00E+00	6.54E-07	0.00E+00	4.34E-08	4.34E-08	4.34E-08	1.36E-04	0.00E+00	1.63E-06	0.00E+00	4.34E-08	2.51E-05	0.00E+00	0.00E+00	1.36E-04
194	ALL		287950	4025450	NonCancer	0.00E+00	7.11E-07	0.00E+00	4.72E-08	4.72E-08	4.72E-08	1.32E-04	0.00E+00	1.77E-06	0.00E+00	4.72E-08	2.73E-05	0.00E+00	0.00E+00	1.32E-04
195	ALL		285450	4025550	NonCancer	0.00E+00	6.17E-08	0.00E+00	4.09E-09	4.09E-09	4.09E-09	4.99E-05	0.00E+00	1.54E-07	0.00E+00	4.09E-09	2.37E-06	0.00E+00	0.00E+00	4.99E-05
196	ALL		285550	4025550	NonCancer	0.00E+00	6.29E-08	0.00E+00	4.18E-09	4.18E-09	4.18E-09	5.75E-05	0.00E+00	1.57E-07	0.00E+00	4.18E-09	2.41E-06	0.00E+00	0.00E+00	5.75E-05
197	ALL		285650	4025550	NonCancer	0.00E+00	6.36E-08	0.00E+00	4.22E-09	4.22E-09	4.22E-09	6.62E-05	0.00E+00	1.59E-07	0.00E+00	4.22E-09	2.44E-06	0.00E+00	0.00E+00	6.62E-05
198	ALL		285750	4025550	NonCancer	0.00E+00	6.40E-08	0.00E+00	4.25E-09	4.25E-09	4.25E-09	7.50E-05	0.00E+00	1.60E-07	0.00E+00	4.25E-09	2.45E-06	0.00E+00	0.00E+00	7.50E-05
199	ALL		285850	4025550	NonCancer	0.00E+00	6.50E-08	0.00E+00	4.32E-09	4.32E-09	4.32E-09	8.30E-05	0.00E+00	1.62E-07	0.00E+00	4.32E-09	2.50E-06	0.00E+00	0.00E+00	8.30E-05
200	ALL		285950	4025550	NonCancer	0.00E+00	6.73E-08	0.00E+00	4.46E-09	4.46E-09	4.46E-09	9.06E-05	0.00E+00	1.68E-07	0.00E+00	4.46E-09	2.59E-06	0.00E+00	0.00E+00	9.06E-05
201	ALL		286050	4025550	NonCancer	0.00E+00	7.06E-08	0.00E+00	4.68E-09	4.68E-09	4.68E-09	9.74E-05	0.00E+00	1.76E-07	0.00E+00	4.68E-09	2.72E-06	0.00E+00	0.00E+00	9.74E-05
202	ALL		286150	4025550	NonCancer	0.00E+00	7.50E-08	0.00E+00	4.97E-09	4.97E-09	4.97E-09	1.04E-04	0.00E+00	1.87E-07	0.00E+00	4.97E-09	2.89E-06	0.00E+00	0.00E+00	1.04E-04
203	ALL		286250	4025550	NonCancer	0.00E+00	8.28E-08	0.00E+00	5.50E-09	5.50E-09	5.50E-09	1.10E-04	0.00E+00	2.07E-07	0.00E+00	5.50E-09	3.21E-06	0.00E+00	0.00E+00	1.10E-04
204	ALL		286350	4025550	NonCancer	0.00E+00	9.76E-08	0.00E+00	6.48E-09	6.48E-09	6.48E-09	1.17E-04	0.00E+00	2.44E-07	0.00E+00	6.48E-09	3.79E-06	0.00E+00	0.00E+00	1.17E-04
205	ALL		286450	4025550	NonCancer	0.00E+00	1.16E-07	0.00E+00	7.69E-09	7.69E-09	7.69E-09	1.24E-04	0.00E+00	2.90E-07	0.00E+00	7.69E-09	4.48E-06	0.00E+00	0.00E+00	1.24E-04
206	ALL		286550	4025550	NonCancer	0.00E+00	1.27E-07	0.00E+00	8.41E-09	8.41E-09	8.41E-09	1.31E-04	0.00E+00	3.16E-07	0.00E+00	8.41E-09	4.86E-06	0.00E+00	0.00E+00	1.31E-04
207	ALL		286650	4025550	NonCancer	0.00E+00	1.34E-07	0.00E+00	8.90E-09	8.90E-09	8.90E-09	1.37E-04	0.00E+00	3.35E-07	0.00E+00	8.90E-09	5.18E-06	0.00E+00	0.00E+00	1.37E-04
208	ALL		286750	4025550	NonCancer	0.00E+00	1.50E-07	0.00E+00	9.98E-09	9.98E-09	9.98E-09	1.43E-04	0.00E+00	3.75E-07	0.00E+00	9.98E-09	5.78E-06	0.00E+00	0.00E+00	1.43E-04
209	ALL		286850	4025550	NonCancer	0.00E+00	1.59E-07	0.00E+00	1.06E-08	1.06E-08	1.06E-08	1.49E-04	0.00E+00	3.98E-07	0.00E+00	1.06E-08	6.17E-06	0.00E+00	0.00E+00	1.49E-04
210	ALL		286950	4025550	NonCancer	0.00E+00	1.93E-07	0.00E+00	1.28E-08	1.28E-08	1.28E-08	1.54E-04	0.00E+00	4.81E-07	0.00E+00	1.28E-08	7.41E-06	0.00E+00	0.00E+00	1.54E-04
211	ALL		287050	4025550	NonCancer	0.00E+00	2.15E-07	0.00E+00	1.43E-08	1.43E-08	1.43E-08	1.58E-04	0.00E+00	5.38E-07	0.00E+00	1.43E-08	8.35E-06	0.00E+00	0.00E+00	1.58E-04
212	ALL		287150	4025550	NonCancer	0.00E+00	2.82E-07	0.00E+00	1.87E-08	1.87E-08	1.87E-08	1.62E-04	0.00E+00	7.04E-07	0.00E+00	1.87E-08	1.09E-05	0.00E+00	0.00E+00	1.62E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
213	ALL		287250	4025550	NonCancer	0.00E+00	3.64E-07	0.00E+00	2.41E-08	2.41E-08	2.41E-08	1.65E-04	0.00E+00	9.09E-07	0.00E+00	2.41E-08	1.41E-05	0.00E+00	0.00E+00	1.65E-04
214	ALL		287350	4025550	NonCancer	0.00E+00	4.29E-07	0.00E+00	2.85E-08	2.85E-08	2.85E-08	1.67E-04	0.00E+00	1.07E-06	0.00E+00	2.85E-08	1.67E-05	0.00E+00	0.00E+00	1.67E-04
215	ALL		287450	4025550	NonCancer	0.00E+00	5.73E-07	0.00E+00	3.80E-08	3.80E-08	3.80E-08	1.68E-04	0.00E+00	1.43E-06	0.00E+00	3.80E-08	2.20E-05	0.00E+00	0.00E+00	1.68E-04
216	ALL		287550	4025550	NonCancer	0.00E+00	6.56E-07	0.00E+00	4.35E-08	4.35E-08	4.35E-08	1.67E-04	0.00E+00	1.64E-06	0.00E+00	4.35E-08	2.53E-05	0.00E+00	0.00E+00	1.67E-04
217	ALL		287650	4025550	NonCancer	0.00E+00	7.62E-07	0.00E+00	5.06E-08	5.06E-08	5.06E-08	1.65E-04	0.00E+00	1.90E-06	0.00E+00	5.06E-08	2.93E-05	0.00E+00	0.00E+00	1.65E-04
218	ALL		287750	4025550	NonCancer	0.00E+00	8.47E-07	0.00E+00	5.62E-08	5.62E-08	5.62E-08	1.61E-04	0.00E+00	2.11E-06	0.00E+00	5.62E-08	3.25E-05	0.00E+00	0.00E+00	1.61E-04
219	ALL		287850	4025550	NonCancer	0.00E+00	9.31E-07	0.00E+00	6.17E-08	6.17E-08	6.17E-08	1.56E-04	0.00E+00	2.32E-06	0.00E+00	6.17E-08	3.57E-05	0.00E+00	0.00E+00	1.56E-04
220	ALL		287950	4025550	NonCancer	0.00E+00	9.11E-07	0.00E+00	6.04E-08	6.04E-08	6.04E-08	1.47E-04	0.00E+00	2.27E-06	0.00E+00	6.04E-08	3.48E-05	0.00E+00	0.00E+00	1.47E-04
221	ALL		288050	4025550	NonCancer	0.00E+00	8.04E-07	0.00E+00	5.33E-08	5.33E-08	5.33E-08	1.38E-04	0.00E+00	2.01E-06	0.00E+00	5.33E-08	3.07E-05	0.00E+00	0.00E+00	1.38E-04
222	ALL		285350	4025650	NonCancer	0.00E+00	6.56E-08	0.00E+00	4.35E-09	4.35E-09	4.35E-09	5.50E-05	0.00E+00	1.64E-07	0.00E+00	4.35E-09	2.53E-06	0.00E+00	0.00E+00	5.50E-05
223	ALL		285450	4025650	NonCancer	0.00E+00	7.03E-08	0.00E+00	4.66E-09	4.66E-09	4.66E-09	6.47E-05	0.00E+00	1.75E-07	0.00E+00	4.66E-09	2.71E-06	0.00E+00	0.00E+00	6.47E-05
224	ALL		285550	4025650	NonCancer	0.00E+00	7.49E-08	0.00E+00	4.97E-09	4.97E-09	4.97E-09	7.63E-05	0.00E+00	1.87E-07	0.00E+00	4.97E-09	2.89E-06	0.00E+00	0.00E+00	7.63E-05
225	ALL		285650	4025650	NonCancer	0.00E+00	7.93E-08	0.00E+00	5.26E-09	5.26E-09	5.26E-09	8.81E-05	0.00E+00	1.98E-07	0.00E+00	5.26E-09	3.05E-06	0.00E+00	0.00E+00	8.81E-05
226	ALL		285750	4025650	NonCancer	0.00E+00	8.29E-08	0.00E+00	5.50E-09	5.50E-09	5.50E-09	9.87E-05	0.00E+00	2.07E-07	0.00E+00	5.50E-09	3.18E-06	0.00E+00	0.00E+00	9.87E-05
227	ALL		285850	4025650	NonCancer	0.00E+00	8.55E-08	0.00E+00	5.67E-09	5.67E-09	5.67E-09	1.08E-04	0.00E+00	2.13E-07	0.00E+00	5.67E-09	3.28E-06	0.00E+00	0.00E+00	1.08E-04
228	ALL		285950	4025650	NonCancer	0.00E+00	8.70E-08	0.00E+00	5.77E-09	5.77E-09	5.77E-09	1.16E-04	0.00E+00	2.17E-07	0.00E+00	5.77E-09	3.33E-06	0.00E+00	0.00E+00	1.16E-04
229	ALL		286050	4025650	NonCancer	0.00E+00	8.83E-08	0.00E+00	5.86E-09	5.86E-09	5.86E-09	1.23E-04	0.00E+00	2.20E-07	0.00E+00	5.86E-09	3.38E-06	0.00E+00	0.00E+00	1.23E-04
230	ALL		286150	4025650	NonCancer	0.00E+00	9.08E-08	0.00E+00	6.02E-09	6.02E-09	6.02E-09	1.30E-04	0.00E+00	2.27E-07	0.00E+00	6.02E-09	3.49E-06	0.00E+00	0.00E+00	1.30E-04
231	ALL		286250	4025650	NonCancer	0.00E+00	9.54E-08	0.00E+00	6.33E-09	6.33E-09	6.33E-09	1.38E-04	0.00E+00	2.38E-07	0.00E+00	6.33E-09	3.67E-06	0.00E+00	0.00E+00	1.38E-04
232	ALL		286350	4025650	NonCancer	0.00E+00	1.02E-07	0.00E+00	6.80E-09	6.80E-09	6.80E-09	1.46E-04	0.00E+00	2.56E-07	0.00E+00	6.80E-09	3.95E-06	0.00E+00	0.00E+00	1.46E-04
233	ALL		286450	4025650	NonCancer	0.00E+00	1.16E-07	0.00E+00	7.70E-09	7.70E-09	7.70E-09	1.55E-04	0.00E+00	2.90E-07	0.00E+00	7.70E-09	4.50E-06	0.00E+00	0.00E+00	1.55E-04
234	ALL		286550	4025650	NonCancer	0.00E+00	1.42E-07	0.00E+00	9.40E-09	9.40E-09	9.40E-09	1.63E-04	0.00E+00	3.54E-07	0.00E+00	9.40E-09	5.51E-06	0.00E+00	0.00E+00	1.63E-04
235	ALL		286650	4025650	NonCancer	0.00E+00	1.68E-07	0.00E+00	1.12E-08	1.12E-08	1.12E-08	1.71E-04	0.00E+00	4.20E-07	0.00E+00	1.12E-08	6.47E-06	0.00E+00	0.00E+00	1.71E-04
236	ALL		286750	4025650	NonCancer	0.00E+00	1.82E-07	0.00E+00	1.21E-08	1.21E-08	1.21E-08	1.78E-04	0.00E+00	4.55E-07	0.00E+00	1.21E-08	7.01E-06	0.00E+00	0.00E+00	1.78E-04
237	ALL		286850	4025650	NonCancer	0.00E+00	2.06E-07	0.00E+00	1.37E-08	1.37E-08	1.37E-08	1.84E-04	0.00E+00	5.15E-07	0.00E+00	1.37E-08	7.94E-06	0.00E+00	0.00E+00	1.84E-04
238	ALL		286950	4025650	NonCancer	0.00E+00	2.27E-07	0.00E+00	1.51E-08	1.51E-08	1.51E-08	1.89E-04	0.00E+00	5.68E-07	0.00E+00	1.51E-08	8.82E-06	0.00E+00	0.00E+00	1.89E-04
239	ALL		287050	4025650	NonCancer	0.00E+00	2.76E-07	0.00E+00	1.83E-08	1.83E-08	1.83E-08	1.93E-04	0.00E+00	6.90E-07	0.00E+00	1.83E-08	1.06E-05	0.00E+00	0.00E+00	1.93E-04
240	ALL		287150	4025650	NonCancer	0.00E+00	3.47E-07	0.00E+00	2.30E-08	2.30E-08	2.30E-08	1.97E-04	0.00E+00	8.67E-07	0.00E+00	2.30E-08	1.35E-05	0.00E+00	0.00E+00	1.97E-04
241	ALL		287250	4025650	NonCancer	0.00E+00	4.81E-07	0.00E+00	3.19E-08	3.19E-08	3.19E-08	2.00E-04	0.00E+00	1.20E-06	0.00E+00	3.19E-08	1.86E-05	0.00E+00	0.00E+00	2.00E-04
242	ALL		287350	4025650	NonCancer	0.00E+00	6.01E-07	0.00E+00	3.99E-08	3.99E-08	3.99E-08	2.02E-04	0.00E+00	1.50E-06	0.00E+00	3.99E-08	2.34E-05	0.00E+00	0.00E+00	2.02E-04
243	ALL		287450	4025650	NonCancer	0.00E+00	8.22E-07	0.00E+00	5.45E-08	5.45E-08	5.45E-08	2.02E-04	0.00E+00	2.05E-06	0.00E+00	5.45E-08	3.15E-05	0.00E+00	0.00E+00	2.02E-04
244	ALL		287550	4025650	NonCancer	0.00E+00	9.88E-07	0.00E+00	6.56E-08	6.56E-08	6.56E-08	2.00E-04	0.00E+00	2.47E-06	0.00E+00	6.56E-08	3.80E-05	0.00E+00	0.00E+00	2.00E-04
245	ALL		287650	4025650	NonCancer	0.00E+00	1.15E-06	0.00E+00	7.61E-08	7.61E-08	7.61E-08	1.96E-04	0.00E+00	2.86E-06	0.00E+00	7.61E-08	4.40E-05	0.00E+00	0.00E+00	1.96E-04
246	ALL		287750	4025650	NonCancer	0.00E+00	1.28E-06	0.00E+00	8.48E-08	8.48E-08	8.48E-08	1.89E-04	0.00E+00	3.19E-06	0.00E+00	8.48E-08	4.90E-05	0.00E+00	0.00E+00	1.89E-04
247	ALL		287850	4025650	NonCancer	0.00E+00	1.27E-06	0.00E+00	8.45E-08	8.45E-08	8.45E-08	1.78E-04	0.00E+00	3.17E-06	0.00E+00	8.45E-08	4.86E-05	0.00E+00	0.00E+00	1.78E-04
248	ALL		287950	4025650	NonCancer	0.00E+00	1.10E-06	0.00E+00	7.30E-08	7.30E-08	7.30E-08	1.65E-04	0.00E+00	2.75E-06	0.00E+00	7.30E-08	4.20E-05	0.00E+00	0.00E+00	1.65E-04
249	ALL		288050	4025650	NonCancer	0.00E+00	9.50E-07	0.00E+00	6.31E-08	6.31E-08	6.31E-08	1.52E-04	0.00E+00	2.37E-06	0.00E+00	6.31E-08	3.63E-05	0.00E+00	0.00E+00	1.52E-04
250	ALL		288150	4025650	NonCancer	0.00E+00	7.87E-07	0.00E+00	5.22E-08	5.22E-08	5.22E-08	1.40E-04	0.00E+00	1.96E-06	0.00E+00	5.22E-08	3.00E-05	0.00E+00	0.00E+00	1.40E-04
251	ALL		285250	4025750	NonCancer	0.00E+00	6.09E-08	0.00E+00	4.04E-09	4.04E-09	4.04E-09	6.05E-05	0.00E+00	1.52E-07	0.00E+00	4.04E-09	2.36E-06	0.00E+00	0.00E+00	6.05E-05
252	ALL		285350	4025750	NonCancer	0.00E+00	6.64E-08	0.00E+00	4.40E-09	4.40E-09	4.40E-09	7.38E-05	0.00E+00	1.66E-07	0.00E+00	4.40E-09	2.57E-06	0.00E+00	0.00E+00	7.38E-05
253	ALL		285450	4025750	NonCancer	0.00E+00	7.25E-08	0.00E+00	4.81E-09	4.81E-09	4.81E-09	9.05E-05	0.00E+00	1.81E-07	0.00E+00	4.81E-09	2.80E-06	0.00E+00	0.00E+00	9.05E-05
254	ALL		285550	4025750	NonCancer	0.00E+00	7.92E-08	0.00E+00	5.25E-09	5.25E-09	5.25E-09	1.08E-04	0.00E+00	1.98E-07	0.00E+00	5.25E-09	3.06E-06	0.00E+00	0.00E+00	1.08E-04
255	ALL		285650	4025750	NonCancer	0.00E+00	8.65E-08	0.00E+00	5.74E-09	5.74E-09	5.74E-09	1.23E-04	0.00E+00	2.16E-07	0.00E+00	5.74E-09	3.34E-06	0.00E+00	0.00E+00	1.23E-04
256	ALL		285750	4025750	NonCancer	0.00E+00	9.45E-08	0.00E+00	6.27E-09	6.27E-09	6.27E-09	1.35E-04	0.00E+00	2.36E-07	0.00E+00	6.27E-09	3.65E-06	0.00E+00	0.00E+00	1.35E-04
257	ALL		285850	4025750	NonCancer	0.00E+00	1.03E-07	0.00E+00	6.82E-09	6.82E-09	6.82E-09	1.44E-04	0.00E+00	2.57E-07	0.00E+00	6.82E-09	3.97E-06	0.00E+00	0.00E+00	1.44E-04
258	ALL		285950	4025750	NonCancer	0.00E+00	1.11E-07	0.00E+00	7.38E-09	7.38E-09	7.38E-09	1.52E-04	0.00E+00	2.78E-07	0.00E+00	7.38E-09	4.28E-06	0.00E+00	0.00E+00	1.52E-04
259	ALL		286050	4025750	NonCancer	0.00E+00	1.19E-07	0.00E+00	7.89E-09	7.89E-09	7.89E-09	1.61E-04	0.00E+00	2.97E-07	0.00E+00	7.89E-09	4.57E-06	0.00E+00	0.00E+00	1.61E-04
260	ALL		286150	4025750	NonCancer	0.00E+00	1.25E-07	0.00E+00	8.27E-09	8.27E-09	8.27E-09	1.70E-04	0.00E+00	3.11E-07	0.00E+00	8.27E-09	4.78E-06	0.00E+00	0.00E+00	1.70E-04
261	ALL		286250	4025750	NonCancer	0.00E+00	1.29E-07	0.00E+00	8.53E-09	8.53E-09	8.53E-09	1.80E-04	0.00E+00	3.21E-07	0.00E+00	8.53E-09	4.92E-06	0.00E+00	0.00E+00	1.80E-04
262	ALL		286350	4025750	NonCancer	0.00E+00	1.32E-07	0.00E+00	8.78E-09	8.78E-09	8.78E-09	1.91E-04	0.00E+00	3.30E-07	0.00E+00	8.78E-09	5.07E-06	0.00E+00	0.00E+00	1.91E-04
263	ALL		286450	4025750	NonCancer	0.00E+00	1.39E-07	0.00E+00	9.22E-09	9.22E-09	9.22E-09	2.02E-04	0.00E+00	3.47E-07	0.00E+00	9.22E-09	5.34E-06	0.00E+00	0.00E+00	2.02E-04
264	ALL		286550	4025750	NonCancer	0.00E+00	1.51E-07	0.00E+00	1.00E-08	1.00E-08	1.00E-08	2.12E-04	0.00E+00	3.77E-07	0.00E+00	1.00E-08	5.83E-06	0.00E+00	0.00E+00	2.12E-04
265	ALL		286650	4025750	NonCancer	0.00E+00	1.77E-07	0.00E+00	1.18E-08	1.18E-08	1.18E-08	2.21E-04	0.00E+00	4.43E-07	0.00E+00	1.18E-08	6.89E-06	0.00E+00	0.00E+00	2.21E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
266	ALL		286750	4025750	NonCancer	0.00E+00	2.26E-07	0.00E+00	1.50E-08	1.50E-08	1.50E-08	2.28E-04	0.00E+00	5.65E-07	0.00E+00	1.50E-08	8.77E-06	0.00E+00	0.00E+00	2.28E-04
267	ALL		286850	4025750	NonCancer	0.00E+00	2.65E-07	0.00E+00	1.76E-08	1.76E-08	1.76E-08	2.35E-04	0.00E+00	6.62E-07	0.00E+00	1.76E-08	1.02E-05	0.00E+00	0.00E+00	2.35E-04
268	ALL		286950	4025750	NonCancer	0.00E+00	3.05E-07	0.00E+00	2.02E-08	2.02E-08	2.02E-08	2.40E-04	0.00E+00	7.62E-07	0.00E+00	2.02E-08	1.18E-05	0.00E+00	0.00E+00	2.40E-04
269	ALL		287050	4025750	NonCancer	0.00E+00	3.57E-07	0.00E+00	2.37E-08	2.37E-08	2.37E-08	2.44E-04	0.00E+00	8.92E-07	0.00E+00	2.37E-08	1.39E-05	0.00E+00	0.00E+00	2.44E-04
270	ALL		287150	4025750	NonCancer	0.00E+00	4.48E-07	0.00E+00	2.97E-08	2.97E-08	2.97E-08	2.47E-04	0.00E+00	1.12E-06	0.00E+00	2.97E-08	1.74E-05	0.00E+00	0.00E+00	2.47E-04
271	ALL		287250	4025750	NonCancer	0.00E+00	6.63E-07	0.00E+00	4.40E-08	4.40E-08	4.40E-08	2.50E-04	0.00E+00	1.66E-06	0.00E+00	4.40E-08	2.58E-05	0.00E+00	0.00E+00	2.50E-04
272	ALL		287350	4025750	NonCancer	0.00E+00	9.11E-07	0.00E+00	6.04E-08	6.04E-08	6.04E-08	2.52E-04	0.00E+00	2.28E-06	0.00E+00	6.04E-08	3.54E-05	0.00E+00	0.00E+00	2.52E-04
273	ALL		287450	4025750	NonCancer	0.00E+00	1.29E-06	0.00E+00	8.57E-08	8.57E-08	8.57E-08	2.51E-04	0.00E+00	3.23E-06	0.00E+00	8.57E-08	4.97E-05	0.00E+00	0.00E+00	2.51E-04
274	ALL		287550	4025750	NonCancer	0.00E+00	1.63E-06	0.00E+00	1.08E-07	1.08E-07	1.08E-07	2.48E-04	0.00E+00	4.07E-06	0.00E+00	1.08E-07	6.26E-05	0.00E+00	0.00E+00	2.48E-04
275	ALL		287650	4025750	NonCancer	0.00E+00	1.89E-06	0.00E+00	1.25E-07	1.25E-07	1.25E-07	2.39E-04	0.00E+00	4.71E-06	0.00E+00	1.25E-07	7.23E-05	0.00E+00	0.00E+00	2.39E-04
276	ALL		287750	4025750	NonCancer	0.00E+00	1.93E-06	0.00E+00	1.28E-07	1.28E-07	1.28E-07	2.25E-04	0.00E+00	4.80E-06	0.00E+00	1.28E-07	7.34E-05	0.00E+00	0.00E+00	2.25E-04
277	ALL		287850	4025750	NonCancer	0.00E+00	1.61E-06	0.00E+00	1.07E-07	1.07E-07	1.07E-07	2.06E-04	0.00E+00	4.02E-06	0.00E+00	1.07E-07	6.14E-05	0.00E+00	0.00E+00	2.06E-04
278	ALL		287950	4025750	NonCancer	0.00E+00	1.32E-06	0.00E+00	8.74E-08	8.74E-08	8.74E-08	1.86E-04	0.00E+00	3.28E-06	0.00E+00	8.74E-08	5.01E-05	0.00E+00	0.00E+00	1.86E-04
279	ALL		288050	4025750	NonCancer	0.00E+00	1.01E-06	0.00E+00	6.71E-08	6.71E-08	6.71E-08	1.69E-04	0.00E+00	2.52E-06	0.00E+00	6.71E-08	3.85E-05	0.00E+00	0.00E+00	1.69E-04
280	ALL		288150	4025750	NonCancer	0.00E+00	7.79E-07	0.00E+00	5.17E-08	5.17E-08	5.17E-08	1.55E-04	0.00E+00	1.94E-06	0.00E+00	5.17E-08	2.97E-05	0.00E+00	0.00E+00	1.55E-04
281	ALL		288250	4025750	NonCancer	0.00E+00	6.34E-07	0.00E+00	4.21E-08	4.21E-08	4.21E-08	1.43E-04	0.00E+00	1.58E-06	0.00E+00	4.21E-08	2.42E-05	0.00E+00	0.00E+00	1.43E-04
282	ALL		285250	4025850	NonCancer	0.00E+00	6.17E-08	0.00E+00	4.09E-09	4.09E-09	4.09E-09	8.51E-05	0.00E+00	1.54E-07	0.00E+00	4.09E-09	2.38E-06	0.00E+00	0.00E+00	8.51E-05
283	ALL		285350	4025850	NonCancer	0.00E+00	6.63E-08	0.00E+00	4.40E-09	4.40E-09	4.40E-09	1.11E-04	0.00E+00	1.66E-07	0.00E+00	4.40E-09	2.56E-06	0.00E+00	0.00E+00	1.11E-04
284	ALL		285450	4025850	NonCancer	0.00E+00	7.17E-08	0.00E+00	4.76E-09	4.76E-09	4.76E-09	1.41E-04	0.00E+00	1.79E-07	0.00E+00	4.76E-09	2.77E-06	0.00E+00	0.00E+00	1.41E-04
285	ALL		285550	4025850	NonCancer	0.00E+00	7.82E-08	0.00E+00	5.19E-09	5.19E-09	5.19E-09	1.64E-04	0.00E+00	1.95E-07	0.00E+00	5.19E-09	3.02E-06	0.00E+00	0.00E+00	1.64E-04
286	ALL		285650	4025850	NonCancer	0.00E+00	8.60E-08	0.00E+00	5.70E-09	5.70E-09	5.70E-09	1.80E-04	0.00E+00	2.15E-07	0.00E+00	5.70E-09	3.33E-06	0.00E+00	0.00E+00	1.80E-04
287	ALL		285750	4025850	NonCancer	0.00E+00	9.53E-08	0.00E+00	6.32E-09	6.32E-09	6.32E-09	1.92E-04	0.00E+00	2.38E-07	0.00E+00	6.32E-09	3.69E-06	0.00E+00	0.00E+00	1.92E-04
288	ALL		285850	4025850	NonCancer	0.00E+00	1.06E-07	0.00E+00	7.05E-09	7.05E-09	7.05E-09	2.02E-04	0.00E+00	2.66E-07	0.00E+00	7.05E-09	4.12E-06	0.00E+00	0.00E+00	2.02E-04
289	ALL		285950	4025850	NonCancer	0.00E+00	1.19E-07	0.00E+00	7.91E-09	7.91E-09	7.91E-09	2.12E-04	0.00E+00	2.98E-07	0.00E+00	7.91E-09	4.62E-06	0.00E+00	0.00E+00	2.12E-04
290	ALL		286050	4025850	NonCancer	0.00E+00	1.34E-07	0.00E+00	8.91E-09	8.91E-09	8.91E-09	2.23E-04	0.00E+00	3.36E-07	0.00E+00	8.91E-09	5.19E-06	0.00E+00	0.00E+00	2.23E-04
291	ALL		286150	4025850	NonCancer	0.00E+00	1.51E-07	0.00E+00	1.00E-08	1.00E-08	1.00E-08	2.36E-04	0.00E+00	3.78E-07	0.00E+00	1.00E-08	5.84E-06	0.00E+00	0.00E+00	2.36E-04
292	ALL		286250	4025850	NonCancer	0.00E+00	1.70E-07	0.00E+00	1.13E-08	1.13E-08	1.13E-08	2.50E-04	0.00E+00	4.24E-07	0.00E+00	1.13E-08	6.54E-06	0.00E+00	0.00E+00	2.50E-04
293	ALL		286350	4025850	NonCancer	0.00E+00	1.88E-07	0.00E+00	1.25E-08	1.25E-08	1.25E-08	2.65E-04	0.00E+00	4.70E-07	0.00E+00	1.25E-08	7.23E-06	0.00E+00	0.00E+00	2.65E-04
294	ALL		286450	4025850	NonCancer	0.00E+00	2.04E-07	0.00E+00	1.35E-08	1.35E-08	1.35E-08	2.79E-04	0.00E+00	5.09E-07	0.00E+00	1.35E-08	7.81E-06	0.00E+00	0.00E+00	2.79E-04
295	ALL		286550	4025850	NonCancer	0.00E+00	2.16E-07	0.00E+00	1.43E-08	1.43E-08	1.43E-08	2.91E-04	0.00E+00	5.38E-07	0.00E+00	1.43E-08	8.24E-06	0.00E+00	0.00E+00	2.91E-04
296	ALL		286650	4025850	NonCancer	0.00E+00	2.28E-07	0.00E+00	1.51E-08	1.51E-08	1.51E-08	3.01E-04	0.00E+00	5.68E-07	0.00E+00	1.51E-08	8.73E-06	0.00E+00	0.00E+00	3.01E-04
297	ALL		286750	4025850	NonCancer	0.00E+00	2.51E-07	0.00E+00	1.67E-08	1.67E-08	1.67E-08	3.08E-04	0.00E+00	6.27E-07	0.00E+00	1.67E-08	9.69E-06	0.00E+00	0.00E+00	3.08E-04
298	ALL		286850	4025850	NonCancer	0.00E+00	3.11E-07	0.00E+00	2.07E-08	2.07E-08	2.07E-08	3.15E-04	0.00E+00	7.79E-07	0.00E+00	2.07E-08	1.22E-05	0.00E+00	0.00E+00	3.15E-04
299	ALL		286950	4025850	NonCancer	0.00E+00	4.18E-07	0.00E+00	2.77E-08	2.77E-08	2.77E-08	3.21E-04	0.00E+00	1.04E-06	0.00E+00	2.77E-08	1.61E-05	0.00E+00	0.00E+00	3.21E-04
300	ALL		287050	4025850	NonCancer	0.00E+00	5.09E-07	0.00E+00	3.38E-08	3.38E-08	3.38E-08	3.26E-04	0.00E+00	1.27E-06	0.00E+00	3.38E-08	1.96E-05	0.00E+00	0.00E+00	3.26E-04
301	ALL		287150	4025850	NonCancer	0.00E+00	6.50E-07	0.00E+00	4.31E-08	4.31E-08	4.31E-08	3.29E-04	0.00E+00	1.63E-06	0.00E+00	4.31E-08	2.52E-05	0.00E+00	0.00E+00	3.29E-04
302	ALL		287250	4025850	NonCancer	0.00E+00	9.59E-07	0.00E+00	6.36E-08	6.36E-08	6.36E-08	3.32E-04	0.00E+00	2.40E-06	0.00E+00	6.36E-08	3.76E-05	0.00E+00	0.00E+00	3.32E-04
303	ALL		287350	4025850	NonCancer	0.00E+00	1.56E-06	0.00E+00	1.03E-07	1.03E-07	1.03E-07	3.34E-04	0.00E+00	3.90E-06	0.00E+00	1.03E-07	6.06E-05	0.00E+00	0.00E+00	3.34E-04
304	ALL		287450	4025850	NonCancer	0.00E+00	2.40E-06	0.00E+00	1.59E-07	1.59E-07	1.59E-07	3.32E-04	0.00E+00	5.98E-06	0.00E+00	1.59E-07	9.23E-05	0.00E+00	0.00E+00	3.32E-04
305	ALL		287950	4025850	NonCancer	0.00E+00	1.35E-06	0.00E+00	8.98E-08	8.98E-08	8.98E-08	2.15E-04	0.00E+00	3.37E-06	0.00E+00	8.98E-08	5.14E-05	0.00E+00	0.00E+00	2.15E-04
306	ALL		288050	4025850	NonCancer	0.00E+00	1.02E-06	0.00E+00	6.78E-08	6.78E-08	6.78E-08	1.95E-04	0.00E+00	2.55E-06	0.00E+00	6.78E-08	3.89E-05	0.00E+00	0.00E+00	1.95E-04
307	ALL		288150	4025850	NonCancer	0.00E+00	7.98E-07	0.00E+00	5.30E-08	5.30E-08	5.30E-08	1.79E-04	0.00E+00	1.99E-06	0.00E+00	5.30E-08	3.05E-05	0.00E+00	0.00E+00	1.79E-04
308	ALL		288250	4025850	NonCancer	0.00E+00	6.35E-07	0.00E+00	4.21E-08	4.21E-08	4.21E-08	1.66E-04	0.00E+00	1.58E-06	0.00E+00	4.21E-08	2.43E-05	0.00E+00	0.00E+00	1.66E-04
309	ALL		285150	4025950	NonCancer	0.00E+00	7.14E-08	0.00E+00	4.73E-09	4.73E-09	4.73E-09	9.91E-05	0.00E+00	1.78E-07	0.00E+00	4.73E-09	2.74E-06	0.00E+00	0.00E+00	9.91E-05
310	ALL		285250	4025950	NonCancer	0.00E+00	7.54E-08	0.00E+00	5.00E-09	5.00E-09	5.00E-09	1.45E-04	0.00E+00	1.88E-07	0.00E+00	5.00E-09	2.89E-06	0.00E+00	0.00E+00	1.45E-04
311	ALL		285350	4025950	NonCancer	0.00E+00	7.98E-08	0.00E+00	5.30E-09	5.30E-09	5.30E-09	2.08E-04	0.00E+00	1.99E-07	0.00E+00	5.30E-09	3.06E-06	0.00E+00	0.00E+00	2.08E-04
312	ALL		285450	4025950	NonCancer	0.00E+00	8.47E-08	0.00E+00	5.62E-09	5.62E-09	5.62E-09	2.51E-04	0.00E+00	2.11E-07	0.00E+00	5.62E-09	3.25E-06	0.00E+00	0.00E+00	2.51E-04
313	ALL		285550	4025950	NonCancer	0.00E+00	9.03E-08	0.00E+00	5.99E-09	5.99E-09	5.99E-09	2.75E-04	0.00E+00	2.25E-07	0.00E+00	5.99E-09	3.47E-06	0.00E+00	0.00E+00	2.75E-04
314	ALL		285650	4025950	NonCancer	0.00E+00	9.67E-08	0.00E+00	6.41E-09	6.41E-09	6.41E-09	2.92E-04	0.00E+00	2.41E-07	0.00E+00	6.41E-09	3.72E-06	0.00E+00	0.00E+00	2.92E-04
315	ALL		285750	4025950	NonCancer	0.00E+00	1.04E-07	0.00E+00	6.91E-09	6.91E-09	6.91E-09	3.05E-04	0.00E+00	2.60E-07	0.00E+00	6.91E-09	4.01E-06	0.00E+00	0.00E+00	3.05E-04
316	ALL		285850	4025950	NonCancer	0.00E+00	1.13E-07	0.00E+00	7.51E-09	7.51E-09	7.51E-09	3.17E-04	0.00E+00	2.83E-07	0.00E+00	7.51E-09	4.36E-06	0.00E+00	0.00E+00	3.17E-04
317	ALL		285950	4025950	NonCancer	0.00E+00	1.24E-07	0.00E+00	8.24E-09	8.24E-09	8.24E-09	3.29E-04	0.00E+00	3.10E-07	0.00E+00	8.24E-09	4.79E-06	0.00E+00	0.00E+00	3.29E-04
318	ALL		286050	4025950	NonCancer	0.00E+00	1.38E-07	0.00E+00	9.16E-09	9.16E-09	9.16E-09	3.46E-04	0.00E+00	3.45E-07	0.00E+00	9.16E-09	5.33E-06	0.00E+00	0.00E+00	3.46E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
319	ALL		286150	4025950	NonCancer	0.00E+00	1.56E-07	0.00E+00	1.03E-08	1.03E-08	1.03E-08	3.67E-04	0.00E+00	3.89E-07	0.00E+00	1.03E-08	6.03E-06	0.00E+00	0.00E+00	3.67E-04
320	ALL		286250	4025950	NonCancer	0.00E+00	1.79E-07	0.00E+00	1.19E-08	1.19E-08	1.19E-08	3.89E-04	0.00E+00	4.47E-07	0.00E+00	1.19E-08	6.93E-06	0.00E+00	0.00E+00	3.89E-04
321	ALL		286350	4025950	NonCancer	0.00E+00	2.08E-07	0.00E+00	1.38E-08	1.38E-08	1.38E-08	4.11E-04	0.00E+00	5.21E-07	0.00E+00	1.38E-08	8.09E-06	0.00E+00	0.00E+00	4.11E-04
322	ALL		286450	4025950	NonCancer	0.00E+00	2.47E-07	0.00E+00	1.64E-08	1.64E-08	1.64E-08	4.33E-04	0.00E+00	6.17E-07	0.00E+00	1.64E-08	9.57E-06	0.00E+00	0.00E+00	4.33E-04
323	ALL		286550	4025950	NonCancer	0.00E+00	2.95E-07	0.00E+00	1.96E-08	1.96E-08	1.96E-08	4.47E-04	0.00E+00	7.37E-07	0.00E+00	1.96E-08	1.14E-05	0.00E+00	0.00E+00	4.47E-04
324	ALL		286650	4025950	NonCancer	0.00E+00	3.52E-07	0.00E+00	2.33E-08	2.33E-08	2.33E-08	4.57E-04	0.00E+00	8.78E-07	0.00E+00	2.33E-08	1.36E-05	0.00E+00	0.00E+00	4.57E-04
325	ALL		286750	4025950	NonCancer	0.00E+00	4.09E-07	0.00E+00	2.72E-08	2.72E-08	2.72E-08	4.67E-04	0.00E+00	1.02E-06	0.00E+00	2.72E-08	1.57E-05	0.00E+00	0.00E+00	4.67E-04
326	ALL		286850	4025950	NonCancer	0.00E+00	4.59E-07	0.00E+00	3.05E-08	3.05E-08	3.05E-08	4.76E-04	0.00E+00	1.15E-06	0.00E+00	3.05E-08	1.75E-05	0.00E+00	0.00E+00	4.76E-04
327	ALL		286950	4025950	NonCancer	0.00E+00	5.23E-07	0.00E+00	3.47E-08	3.47E-08	3.47E-08	4.83E-04	0.00E+00	1.31E-06	0.00E+00	3.47E-08	2.02E-05	0.00E+00	0.00E+00	4.83E-04
328	ALL		287050	4025950	NonCancer	0.00E+00	7.20E-07	0.00E+00	4.78E-08	4.78E-08	4.78E-08	4.89E-04	0.00E+00	1.80E-06	0.00E+00	4.78E-08	2.82E-05	0.00E+00	0.00E+00	4.89E-04
329	ALL		287150	4025950	NonCancer	0.00E+00	1.06E-06	0.00E+00	7.01E-08	7.01E-08	7.01E-08	4.96E-04	0.00E+00	2.64E-06	0.00E+00	7.01E-08	4.08E-05	0.00E+00	0.00E+00	4.96E-04
330	ALL		287250	4025950	NonCancer	0.00E+00	1.60E-06	0.00E+00	1.06E-07	1.06E-07	1.06E-07	5.03E-04	0.00E+00	3.99E-06	0.00E+00	1.06E-07	6.22E-05	0.00E+00	0.00E+00	5.03E-04
331	ALL		287350	4025950	NonCancer	0.00E+00	3.30E-06	0.00E+00	2.19E-07	2.19E-07	2.19E-07	5.02E-04	0.00E+00	8.26E-06	0.00E+00	2.19E-07	1.29E-04	0.00E+00	0.00E+00	5.02E-04
332	ALL		287450	4025950	NonCancer	0.00E+00	6.06E-06	0.00E+00	4.02E-07	4.02E-07	4.02E-07	5.00E-04	0.00E+00	1.51E-05	0.00E+00	4.02E-07	2.32E-04	0.00E+00	0.00E+00	5.00E-04
333	ALL		285150	4026050	NonCancer	0.00E+00	8.78E-08	0.00E+00	5.83E-09	5.83E-09	5.83E-09	2.01E-04	0.00E+00	2.19E-07	0.00E+00	5.83E-09	3.38E-06	0.00E+00	0.00E+00	2.01E-04
334	ALL		285250	4026050	NonCancer	0.00E+00	9.40E-08	0.00E+00	6.24E-09	6.24E-09	6.24E-09	4.35E-04	0.00E+00	2.35E-07	0.00E+00	6.24E-09	3.62E-06	0.00E+00	0.00E+00	4.35E-04
335	ALL		285350	4026050	NonCancer	0.00E+00	1.01E-07	0.00E+00	6.70E-09	6.70E-09	6.70E-09	5.47E-04	0.00E+00	2.52E-07	0.00E+00	6.70E-09	3.89E-06	0.00E+00	0.00E+00	5.47E-04
336	ALL		285450	4026050	NonCancer	0.00E+00	1.09E-07	0.00E+00	7.21E-09	7.21E-09	7.21E-09	5.94E-04	0.00E+00	2.71E-07	0.00E+00	7.21E-09	4.18E-06	0.00E+00	0.00E+00	5.94E-04
337	ALL		285550	4026050	NonCancer	0.00E+00	1.17E-07	0.00E+00	7.79E-09	7.79E-09	7.79E-09	6.22E-04	0.00E+00	2.93E-07	0.00E+00	7.79E-09	4.52E-06	0.00E+00	0.00E+00	6.22E-04
338	ALL		285650	4026050	NonCancer	0.00E+00	1.27E-07	0.00E+00	8.44E-09	8.44E-09	8.44E-09	6.43E-04	0.00E+00	3.18E-07	0.00E+00	8.44E-09	4.89E-06	0.00E+00	0.00E+00	6.43E-04
339	ALL		285750	4026050	NonCancer	0.00E+00	1.39E-07	0.00E+00	9.19E-09	9.19E-09	9.19E-09	6.60E-04	0.00E+00	3.46E-07	0.00E+00	9.19E-09	5.33E-06	0.00E+00	0.00E+00	6.60E-04
340	ALL		285850	4026050	NonCancer	0.00E+00	1.51E-07	0.00E+00	1.00E-08	1.00E-08	1.00E-08	6.79E-04	0.00E+00	3.78E-07	0.00E+00	1.00E-08	5.82E-06	0.00E+00	0.00E+00	6.79E-04
341	ALL		285950	4026050	NonCancer	0.00E+00	1.66E-07	0.00E+00	1.10E-08	1.10E-08	1.10E-08	7.06E-04	0.00E+00	4.15E-07	0.00E+00	1.10E-08	6.39E-06	0.00E+00	0.00E+00	7.06E-04
342	ALL		286050	4026050	NonCancer	0.00E+00	1.84E-07	0.00E+00	1.22E-08	1.22E-08	1.22E-08	7.52E-04	0.00E+00	4.59E-07	0.00E+00	1.22E-08	7.06E-06	0.00E+00	0.00E+00	7.52E-04
343	ALL		286150	4026050	NonCancer	0.00E+00	2.05E-07	0.00E+00	1.36E-08	1.36E-08	1.36E-08	8.01E-04	0.00E+00	5.11E-07	0.00E+00	1.36E-08	7.86E-06	0.00E+00	0.00E+00	8.01E-04
344	ALL		286250	4026050	NonCancer	0.00E+00	2.30E-07	0.00E+00	1.52E-08	1.52E-08	1.52E-08	8.48E-04	0.00E+00	5.73E-07	0.00E+00	1.52E-08	8.81E-06	0.00E+00	0.00E+00	8.48E-04
345	ALL		286350	4026050	NonCancer	0.00E+00	2.60E-07	0.00E+00	1.73E-08	1.73E-08	1.73E-08	9.01E-04	0.00E+00	6.49E-07	0.00E+00	1.73E-08	9.99E-06	0.00E+00	0.00E+00	9.01E-04
346	ALL		286450	4026050	NonCancer	0.00E+00	2.98E-07	0.00E+00	1.98E-08	1.98E-08	1.98E-08	9.44E-04	0.00E+00	7.45E-07	0.00E+00	1.98E-08	1.15E-05	0.00E+00	0.00E+00	9.44E-04
347	ALL		286550	4026050	NonCancer	0.00E+00	3.49E-07	0.00E+00	2.31E-08	2.31E-08	2.31E-08	9.69E-04	0.00E+00	8.70E-07	0.00E+00	2.31E-08	1.34E-05	0.00E+00	0.00E+00	9.69E-04
348	ALL		286650	4026050	NonCancer	0.00E+00	4.17E-07	0.00E+00	2.77E-08	2.77E-08	2.77E-08	1.00E-03	0.00E+00	1.04E-06	0.00E+00	2.77E-08	1.61E-05	0.00E+00	0.00E+00	1.00E-03
349	ALL		286750	4026050	NonCancer	0.00E+00	5.18E-07	0.00E+00	3.43E-08	3.43E-08	3.43E-08	1.03E-03	0.00E+00	1.29E-06	0.00E+00	3.43E-08	2.00E-05	0.00E+00	0.00E+00	1.03E-03
350	ALL		286850	4026050	NonCancer	0.00E+00	6.75E-07	0.00E+00	4.48E-08	4.48E-08	4.48E-08	1.07E-03	0.00E+00	1.69E-06	0.00E+00	4.48E-08	2.63E-05	0.00E+00	0.00E+00	1.07E-03
351	ALL		286950	4026050	NonCancer	0.00E+00	9.35E-07	0.00E+00	6.20E-08	6.20E-08	6.20E-08	1.10E-03	0.00E+00	2.34E-06	0.00E+00	6.20E-08	3.64E-05	0.00E+00	0.00E+00	1.10E-03
352	ALL		287050	4026050	NonCancer	0.00E+00	1.34E-06	0.00E+00	8.92E-08	8.92E-08	8.92E-08	1.14E-03	0.00E+00	3.36E-06	0.00E+00	8.92E-08	5.18E-05	0.00E+00	0.00E+00	1.14E-03
353	ALL		287150	4026050	NonCancer	0.00E+00	1.90E-06	0.00E+00	1.26E-07	1.26E-07	1.26E-07	1.19E-03	0.00E+00	4.73E-06	0.00E+00	1.26E-07	7.27E-05	0.00E+00	0.00E+00	1.19E-03
354	ALL		287250	4026050	NonCancer	0.00E+00	3.58E-06	0.00E+00	2.37E-07	2.37E-07	2.37E-07	1.22E-03	0.00E+00	8.96E-06	0.00E+00	2.37E-07	1.40E-04	0.00E+00	0.00E+00	1.22E-03
355	ALL		287350	4026050	NonCancer	0.00E+00	1.10E-05	0.00E+00	7.30E-07	7.30E-07	7.30E-07	1.25E-03	0.00E+00	2.76E-05	0.00E+00	7.30E-07	4.37E-04	0.00E+00	0.00E+00	1.25E-03
356	ALL		287450	4026050	NonCancer	0.00E+00	2.92E-05	0.00E+00	1.94E-06	1.94E-06	1.94E-06	1.31E-03	0.00E+00	7.26E-05	0.00E+00	1.94E-06	1.08E-03	0.00E+00	0.00E+00	1.31E-03
357	ALL		285150	4026150	NonCancer	0.00E+00	9.31E-08	0.00E+00	6.17E-09	6.17E-09	6.17E-09	1.69E-03	0.00E+00	2.32E-07	0.00E+00	6.17E-09	3.59E-06	0.00E+00	0.00E+00	1.69E-03
358	ALL		285250	4026150	NonCancer	0.00E+00	1.00E-07	0.00E+00	6.66E-09	6.66E-09	6.66E-09	1.97E-03	0.00E+00	2.51E-07	0.00E+00	6.66E-09	3.88E-06	0.00E+00	0.00E+00	1.97E-03
359	ALL		285350	4026150	NonCancer	0.00E+00	1.09E-07	0.00E+00	7.21E-09	7.21E-09	7.21E-09	1.94E-03	0.00E+00	2.72E-07	0.00E+00	7.21E-09	4.20E-06	0.00E+00	0.00E+00	1.94E-03
360	ALL		285450	4026150	NonCancer	0.00E+00	1.18E-07	0.00E+00	7.84E-09	7.84E-09	7.84E-09	1.89E-03	0.00E+00	2.95E-07	0.00E+00	7.84E-09	4.57E-06	0.00E+00	0.00E+00	1.89E-03
361	ALL		285550	4026150	NonCancer	0.00E+00	1.29E-07	0.00E+00	8.56E-09	8.56E-09	8.56E-09	1.84E-03	0.00E+00	3.22E-07	0.00E+00	8.56E-09	4.99E-06	0.00E+00	0.00E+00	1.84E-03
362	ALL		285650	4026150	NonCancer	0.00E+00	1.42E-07	0.00E+00	9.39E-09	9.39E-09	9.39E-09	1.79E-03	0.00E+00	3.54E-07	0.00E+00	9.39E-09	5.47E-06	0.00E+00	0.00E+00	1.79E-03
363	ALL		285750	4026150	NonCancer	0.00E+00	1.56E-07	0.00E+00	1.04E-08	1.04E-08	1.04E-08	1.74E-03	0.00E+00	3.90E-07	0.00E+00	1.04E-08	6.04E-06	0.00E+00	0.00E+00	1.74E-03
364	ALL		285850	4026150	NonCancer	0.00E+00	1.74E-07	0.00E+00	1.15E-08	1.15E-08	1.15E-08	1.70E-03	0.00E+00	4.34E-07	0.00E+00	1.15E-08	6.71E-06	0.00E+00	0.00E+00	1.70E-03
365	ALL		287650	4026150	NonCancer	0.00E+00	3.38E-06	0.00E+00	2.24E-07	2.24E-07	2.24E-07	5.13E-04	0.00E+00	8.43E-06	0.00E+00	2.24E-07	1.29E-04	0.00E+00	0.00E+00	5.13E-04
366	ALL		287750	4026150	NonCancer	0.00E+00	1.91E-06	0.00E+00	1.26E-07	1.26E-07	1.26E-07	4.28E-04	0.00E+00	4.76E-06	0.00E+00	1.26E-07	7.30E-05	0.00E+00	0.00E+00	4.28E-04
367	ALL		287850	4026150	NonCancer	0.00E+00	1.23E-06	0.00E+00	8.19E-08	8.19E-08	8.19E-08	3.78E-04	0.00E+00	3.08E-06	0.00E+00	8.19E-08	4.73E-05	0.00E+00	0.00E+00	3.78E-04
368	ALL		287950	4026150	NonCancer	0.00E+00	8.70E-07	0.00E+00	5.78E-08	5.78E-08	5.78E-08	3.43E-04	0.00E+00	2.17E-06	0.00E+00	5.78E-08	3.34E-05	0.00E+00	0.00E+00	3.43E-04
369	ALL		288050	4026150	NonCancer	0.00E+00	6.51E-07	0.00E+00	4.32E-08	4.32E-08	4.32E-08	3.17E-04	0.00E+00	1.62E-06	0.00E+00	4.32E-08	2.50E-05	0.00E+00	0.00E+00	3.17E-04
370	ALL		288150	4026150	NonCancer	0.00E+00	5.07E-07	0.00E+00	3.37E-08	3.37E-08	3.37E-08	2.96E-04	0.00E+00	1.27E-06	0.00E+00	3.37E-08	1.95E-05	0.00E+00	0.00E+00	2.96E-04
371	ALL		288250	4026150	NonCancer	0.00E+00	4.08E-07	0.00E+00	2.71E-08	2.71E-08	2.71E-08	2.79E-04	0.00E+00	1.02E-06	0.00E+00	2.71E-08	1.57E-05	0.00E+00	0.00E+00	2.79E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE1	ENDO	BLOOD	ODOR	GENERAL	MAXHI
372	ALL		285150	4026250	NonCancer	0.00E+00	9.35E-08	0.00E+00	6.21E-09	6.21E-09	6.21E-09	3.49E-04	0.00E+00	2.34E-07	0.00E+00	6.21E-09	3.61E-06	0.00E+00	0.00E+00	3.49E-04
373	ALL		285250	4026250	NonCancer	0.00E+00	1.01E-07	0.00E+00	6.71E-09	6.71E-09	6.71E-09	3.99E-04	0.00E+00	2.53E-07	0.00E+00	6.71E-09	3.91E-06	0.00E+00	0.00E+00	3.99E-04
374	ALL		285350	4026250	NonCancer	0.00E+00	1.10E-07	0.00E+00	7.28E-09	7.28E-09	7.28E-09	4.20E-04	0.00E+00	2.74E-07	0.00E+00	7.28E-09	4.24E-06	0.00E+00	0.00E+00	4.20E-04
375	ALL		285450	4026250	NonCancer	0.00E+00	1.20E-07	0.00E+00	7.93E-09	7.93E-09	7.93E-09	4.32E-04	0.00E+00	2.99E-07	0.00E+00	7.93E-09	4.62E-06	0.00E+00	0.00E+00	4.32E-04
376	ALL		285550	4026250	NonCancer	0.00E+00	1.31E-07	0.00E+00	8.68E-09	8.68E-09	8.68E-09	4.42E-04	0.00E+00	3.27E-07	0.00E+00	8.68E-09	5.06E-06	0.00E+00	0.00E+00	4.42E-04
377	ALL		285650	4026250	NonCancer	0.00E+00	1.44E-07	0.00E+00	9.56E-09	9.56E-09	9.56E-09	4.52E-04	0.00E+00	3.60E-07	0.00E+00	9.56E-09	5.57E-06	0.00E+00	0.00E+00	4.52E-04
378	ALL		285750	4026250	NonCancer	0.00E+00	1.60E-07	0.00E+00	1.06E-08	1.06E-08	1.06E-08	4.66E-04	0.00E+00	3.99E-07	0.00E+00	1.06E-08	6.17E-06	0.00E+00	0.00E+00	4.66E-04
379	ALL		285850	4026250	NonCancer	0.00E+00	1.78E-07	0.00E+00	1.18E-08	1.18E-08	1.18E-08	4.90E-04	0.00E+00	4.44E-07	0.00E+00	1.18E-08	6.88E-06	0.00E+00	0.00E+00	4.90E-04
380	ALL		287650	4026250	NonCancer	0.00E+00	1.69E-06	0.00E+00	1.12E-07	1.12E-07	1.12E-07	3.63E-04	0.00E+00	4.22E-06	0.00E+00	1.12E-07	6.42E-05	0.00E+00	0.00E+00	3.63E-04
381	ALL		287750	4026250	NonCancer	0.00E+00	1.01E-06	0.00E+00	6.68E-08	6.68E-08	6.68E-08	2.87E-04	0.00E+00	2.51E-06	0.00E+00	6.68E-08	3.83E-05	0.00E+00	0.00E+00	2.87E-04
382	ALL		287850	4026250	NonCancer	0.00E+00	6.86E-07	0.00E+00	4.55E-08	4.55E-08	4.55E-08	2.44E-04	0.00E+00	1.71E-06	0.00E+00	4.55E-08	2.63E-05	0.00E+00	0.00E+00	2.44E-04
383	ALL		287950	4026250	NonCancer	0.00E+00	5.15E-07	0.00E+00	3.41E-08	3.41E-08	3.41E-08	2.14E-04	0.00E+00	1.28E-06	0.00E+00	3.41E-08	1.98E-05	0.00E+00	0.00E+00	2.14E-04
384	ALL		288050	4026250	NonCancer	0.00E+00	4.05E-07	0.00E+00	2.69E-08	2.69E-08	2.69E-08	1.92E-04	0.00E+00	1.01E-06	0.00E+00	2.69E-08	1.56E-05	0.00E+00	0.00E+00	1.92E-04
385	ALL		288150	4026250	NonCancer	0.00E+00	3.29E-07	0.00E+00	2.18E-08	2.18E-08	2.18E-08	1.76E-04	0.00E+00	8.22E-07	0.00E+00	2.18E-08	1.27E-05	0.00E+00	0.00E+00	1.76E-04
386	ALL		288250	4026250	NonCancer	0.00E+00	2.75E-07	0.00E+00	1.82E-08	1.82E-08	1.82E-08	1.63E-04	0.00E+00	6.86E-07	0.00E+00	1.82E-08	1.06E-05	0.00E+00	0.00E+00	1.63E-04
387	ALL		285150	4026350	NonCancer	0.00E+00	9.59E-08	0.00E+00	6.36E-09	6.36E-09	6.36E-09	2.26E-04	0.00E+00	2.40E-07	0.00E+00	6.36E-09	3.70E-06	0.00E+00	0.00E+00	2.26E-04
388	ALL		285250	4026350	NonCancer	0.00E+00	1.04E-07	0.00E+00	6.88E-09	6.88E-09	6.88E-09	2.47E-04	0.00E+00	2.59E-07	0.00E+00	6.88E-09	4.01E-06	0.00E+00	0.00E+00	2.47E-04
389	ALL		285350	4026350	NonCancer	0.00E+00	1.13E-07	0.00E+00	7.47E-09	7.47E-09	7.47E-09	2.64E-04	0.00E+00	2.81E-07	0.00E+00	7.47E-09	4.35E-06	0.00E+00	0.00E+00	2.64E-04
390	ALL		285450	4026350	NonCancer	0.00E+00	1.23E-07	0.00E+00	8.13E-09	8.13E-09	8.13E-09	2.77E-04	0.00E+00	3.06E-07	0.00E+00	8.13E-09	4.74E-06	0.00E+00	0.00E+00	2.77E-04
391	ALL		285550	4026350	NonCancer	0.00E+00	1.34E-07	0.00E+00	8.91E-09	8.91E-09	8.91E-09	2.89E-04	0.00E+00	3.35E-07	0.00E+00	8.91E-09	5.19E-06	0.00E+00	0.00E+00	2.89E-04
392	ALL		285650	4026350	NonCancer	0.00E+00	1.48E-07	0.00E+00	9.80E-09	9.80E-09	9.80E-09	3.04E-04	0.00E+00	3.69E-07	0.00E+00	9.80E-09	5.71E-06	0.00E+00	0.00E+00	3.04E-04
393	ALL		285750	4026350	NonCancer	0.00E+00	1.64E-07	0.00E+00	1.09E-08	1.09E-08	1.09E-08	3.27E-04	0.00E+00	4.09E-07	0.00E+00	1.09E-08	6.33E-06	0.00E+00	0.00E+00	3.27E-04
394	ALL		285850	4026350	NonCancer	0.00E+00	1.83E-07	0.00E+00	1.21E-08	1.21E-08	1.21E-08	3.66E-04	0.00E+00	4.57E-07	0.00E+00	1.21E-08	7.07E-06	0.00E+00	0.00E+00	3.66E-04
395	ALL		287650	4026350	NonCancer	0.00E+00	1.05E-06	0.00E+00	6.99E-08	6.99E-08	6.99E-08	3.09E-04	0.00E+00	2.62E-06	0.00E+00	6.99E-08	3.98E-05	0.00E+00	0.00E+00	3.09E-04
396	ALL		287750	4026350	NonCancer	0.00E+00	6.88E-07	0.00E+00	4.56E-08	4.56E-08	4.56E-08	2.38E-04	0.00E+00	1.72E-06	0.00E+00	4.56E-08	2.66E-05	0.00E+00	0.00E+00	2.38E-04
397	ALL		287850	4026350	NonCancer	0.00E+00	5.64E-07	0.00E+00	3.74E-08	3.74E-08	3.74E-08	1.96E-04	0.00E+00	1.41E-06	0.00E+00	3.74E-08	2.17E-05	0.00E+00	0.00E+00	1.96E-04
398	ALL		287950	4026350	NonCancer	0.00E+00	4.30E-07	0.00E+00	2.85E-08	2.85E-08	2.85E-08	1.68E-04	0.00E+00	1.07E-06	0.00E+00	2.85E-08	1.63E-05	0.00E+00	0.00E+00	1.68E-04
399	ALL		288050	4026350	NonCancer	0.00E+00	3.17E-07	0.00E+00	2.11E-08	2.11E-08	2.11E-08	1.48E-04	0.00E+00	7.92E-07	0.00E+00	2.11E-08	1.21E-05	0.00E+00	0.00E+00	1.48E-04
400	ALL		288150	4026350	NonCancer	0.00E+00	2.51E-07	0.00E+00	1.66E-08	1.66E-08	1.66E-08	1.33E-04	0.00E+00	6.26E-07	0.00E+00	1.66E-08	9.63E-06	0.00E+00	0.00E+00	1.33E-04
401	ALL		288250	4026350	NonCancer	0.00E+00	2.10E-07	0.00E+00	1.39E-08	1.39E-08	1.39E-08	1.21E-04	0.00E+00	5.25E-07	0.00E+00	1.39E-08	8.09E-06	0.00E+00	0.00E+00	1.21E-04
402	ALL		285150	4026450	NonCancer	0.00E+00	9.73E-08	0.00E+00	6.46E-09	6.46E-09	6.46E-09	1.79E-04	0.00E+00	2.43E-07	0.00E+00	6.46E-09	3.76E-06	0.00E+00	0.00E+00	1.79E-04
403	ALL		285250	4026450	NonCancer	0.00E+00	1.05E-07	0.00E+00	6.99E-09	6.99E-09	6.99E-09	1.93E-04	0.00E+00	2.63E-07	0.00E+00	6.99E-09	4.07E-06	0.00E+00	0.00E+00	1.93E-04
404	ALL		285350	4026450	NonCancer	0.00E+00	1.15E-07	0.00E+00	7.61E-09	7.61E-09	7.61E-09	2.06E-04	0.00E+00	2.86E-07	0.00E+00	7.61E-09	4.43E-06	0.00E+00	0.00E+00	2.06E-04
405	ALL		285450	4026450	NonCancer	0.00E+00	1.25E-07	0.00E+00	8.32E-09	8.32E-09	8.32E-09	2.20E-04	0.00E+00	3.13E-07	0.00E+00	8.32E-09	4.85E-06	0.00E+00	0.00E+00	2.20E-04
406	ALL		285550	4026450	NonCancer	0.00E+00	1.38E-07	0.00E+00	9.16E-09	9.16E-09	9.16E-09	2.35E-04	0.00E+00	3.45E-07	0.00E+00	9.16E-09	5.34E-06	0.00E+00	0.00E+00	2.35E-04
407	ALL		285650	4026450	NonCancer	0.00E+00	1.53E-07	0.00E+00	1.02E-08	1.02E-08	1.02E-08	2.54E-04	0.00E+00	3.83E-07	0.00E+00	1.02E-08	5.92E-06	0.00E+00	0.00E+00	2.54E-04
408	ALL		285750	4026450	NonCancer	0.00E+00	1.72E-07	0.00E+00	1.14E-08	1.14E-08	1.14E-08	2.80E-04	0.00E+00	4.29E-07	0.00E+00	1.14E-08	6.63E-06	0.00E+00	0.00E+00	2.80E-04
409	ALL		285850	4026450	NonCancer	0.00E+00	1.94E-07	0.00E+00	1.29E-08	1.29E-08	1.29E-08	3.20E-04	0.00E+00	4.85E-07	0.00E+00	1.29E-08	7.51E-06	0.00E+00	0.00E+00	3.20E-04
410	ALL		287650	4026450	NonCancer	0.00E+00	8.87E-07	0.00E+00	5.88E-08	5.88E-08	5.88E-08	2.81E-04	0.00E+00	2.21E-06	0.00E+00	5.88E-08	3.38E-05	0.00E+00	0.00E+00	2.81E-04
411	ALL		287750	4026450	NonCancer	0.00E+00	5.62E-07	0.00E+00	3.73E-08	3.73E-08	3.73E-08	2.06E-04	0.00E+00	1.40E-06	0.00E+00	3.73E-08	2.14E-05	0.00E+00	0.00E+00	2.06E-04
412	ALL		287850	4026450	NonCancer	0.00E+00	3.87E-07	0.00E+00	2.57E-08	2.57E-08	2.57E-08	1.65E-04	0.00E+00	9.65E-07	0.00E+00	2.57E-08	1.48E-05	0.00E+00	0.00E+00	1.65E-04
413	ALL		287950	4026450	NonCancer	0.00E+00	3.15E-07	0.00E+00	2.09E-08	2.09E-08	2.09E-08	1.39E-04	0.00E+00	7.86E-07	0.00E+00	2.09E-08	1.22E-05	0.00E+00	0.00E+00	1.39E-04
414	ALL		288050	4026450	NonCancer	0.00E+00	2.85E-07	0.00E+00	1.89E-08	1.89E-08	1.89E-08	1.22E-04	0.00E+00	7.13E-07	0.00E+00	1.89E-08	1.10E-05	0.00E+00	0.00E+00	1.22E-04
415	ALL		288150	4026450	NonCancer	0.00E+00	2.48E-07	0.00E+00	1.64E-08	1.64E-08	1.64E-08	1.09E-04	0.00E+00	6.17E-07	0.00E+00	1.64E-08	9.47E-06	0.00E+00	0.00E+00	1.09E-04
416	ALL		288250	4026450	NonCancer	0.00E+00	2.00E-07	0.00E+00	1.32E-08	1.32E-08	1.32E-08	9.80E-05	0.00E+00	4.97E-07	0.00E+00	1.32E-08	7.60E-06	0.00E+00	0.00E+00	9.80E-05
417	ALL		285150	4026550	NonCancer	0.00E+00	1.01E-07	0.00E+00	6.68E-09	6.68E-09	6.68E-09	1.55E-04	0.00E+00	2.51E-07	0.00E+00	6.68E-09	3.89E-06	0.00E+00	0.00E+00	1.55E-04
418	ALL		285250	4026550	NonCancer	0.00E+00	1.10E-07	0.00E+00	7.28E-09	7.28E-09	7.28E-09	1.66E-04	0.00E+00	2.74E-07	0.00E+00	7.28E-09	4.24E-06	0.00E+00	0.00E+00	1.66E-04
419	ALL		285350	4026550	NonCancer	0.00E+00	1.20E-07	0.00E+00	7.99E-09	7.99E-09	7.99E-09	1.79E-04	0.00E+00	3.01E-07	0.00E+00	7.99E-09	4.65E-06	0.00E+00	0.00E+00	1.79E-04
420	ALL		285450	4026550	NonCancer	0.00E+00	1.33E-07	0.00E+00	8.84E-09	8.84E-09	8.84E-09	1.93E-04	0.00E+00	3.33E-07	0.00E+00	8.84E-09	5.15E-06	0.00E+00	0.00E+00	1.93E-04
421	ALL		285550	4026550	NonCancer	0.00E+00	1.49E-07	0.00E+00	9.86E-09	9.86E-09	9.86E-09	2.10E-04	0.00E+00	3.71E-07	0.00E+00	9.86E-09	5.74E-06	0.00E+00	0.00E+00	2.10E-04
422	ALL		285650	4026550	NonCancer	0.00E+00	1.68E-07	0.00E+00	1.11E-08	1.11E-08	1.11E-08	2.31E-04	0.00E+00	4.19E-07	0.00E+00	1.11E-08	6.48E-06	0.00E+00	0.00E+00	2.31E-04
423	ALL		285750	4026550	NonCancer	0.00E+00	1.91E-07	0.00E+00	1.27E-08	1.27E-08	1.27E-08	2.59E-04	0.00E+00	4.78E-07	0.00E+00	1.27E-08	7.39E-06	0.00E+00	0.00E+00	2.59E-04
424	ALL		285850	4026550	NonCancer	0.00E+00	2.20E-07	0.00E+00	1.46E-08	1.46E-08	1.46E-08	2.98E-04	0.00E+00	5.51E-07	0.00E+00	1.46E-08	8.52E-06	0.00E+00	0.00E+00	2.98E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE1	ENDO	BLOOD	ODOR	GENERAL	MAXHI
425	ALL		287650	4026550	NonCancer	0.00E+00	6.84E-07	0.00E+00	4.54E-08	4.54E-08	4.54E-08	2.42E-04	0.00E+00	1.71E-06	0.00E+00	4.54E-08	2.61E-05	0.00E+00	0.00E+00	2.42E-04
426	ALL		287750	4026550	NonCancer	0.00E+00	5.11E-07	0.00E+00	3.39E-08	3.39E-08	3.39E-08	1.75E-04	0.00E+00	1.27E-06	0.00E+00	3.39E-08	1.95E-05	0.00E+00	0.00E+00	1.75E-04
427	ALL		287850	4026550	NonCancer	0.00E+00	3.55E-07	0.00E+00	2.36E-08	2.36E-08	2.36E-08	1.39E-04	0.00E+00	8.86E-07	0.00E+00	2.36E-08	1.35E-05	0.00E+00	0.00E+00	1.39E-04
428	ALL		287950	4026550	NonCancer	0.00E+00	2.61E-07	0.00E+00	1.73E-08	1.73E-08	1.73E-08	1.17E-04	0.00E+00	6.52E-07	0.00E+00	1.73E-08	9.97E-06	0.00E+00	0.00E+00	1.17E-04
429	ALL		288050	4026550	NonCancer	0.00E+00	2.08E-07	0.00E+00	1.38E-08	1.38E-08	1.38E-08	1.02E-04	0.00E+00	5.19E-07	0.00E+00	1.38E-08	7.99E-06	0.00E+00	0.00E+00	1.02E-04
430	ALL		288150	4026550	NonCancer	0.00E+00	1.85E-07	0.00E+00	1.22E-08	1.22E-08	1.22E-08	9.06E-05	0.00E+00	4.61E-07	0.00E+00	1.22E-08	7.14E-06	0.00E+00	0.00E+00	9.06E-05
431	ALL		288250	4026550	NonCancer	0.00E+00	1.75E-07	0.00E+00	1.16E-08	1.16E-08	1.16E-08	8.13E-05	0.00E+00	4.36E-07	0.00E+00	1.16E-08	6.76E-06	0.00E+00	0.00E+00	8.13E-05
432	ALL		285150	4026650	NonCancer	0.00E+00	1.08E-07	0.00E+00	7.14E-09	7.14E-09	7.14E-09	1.41E-04	0.00E+00	2.69E-07	0.00E+00	7.14E-09	4.15E-06	0.00E+00	0.00E+00	1.41E-04
433	ALL		285250	4026650	NonCancer	0.00E+00	1.19E-07	0.00E+00	7.88E-09	7.88E-09	7.88E-09	1.51E-04	0.00E+00	2.97E-07	0.00E+00	7.88E-09	4.59E-06	0.00E+00	0.00E+00	1.51E-04
434	ALL		285350	4026650	NonCancer	0.00E+00	1.32E-07	0.00E+00	8.77E-09	8.77E-09	8.77E-09	1.64E-04	0.00E+00	3.30E-07	0.00E+00	8.77E-09	5.10E-06	0.00E+00	0.00E+00	1.64E-04
435	ALL		285450	4026650	NonCancer	0.00E+00	1.48E-07	0.00E+00	9.84E-09	9.84E-09	9.84E-09	1.78E-04	0.00E+00	3.70E-07	0.00E+00	9.84E-09	5.72E-06	0.00E+00	0.00E+00	1.78E-04
436	ALL		285550	4026650	NonCancer	0.00E+00	1.67E-07	0.00E+00	1.11E-08	1.11E-08	1.11E-08	1.95E-04	0.00E+00	4.17E-07	0.00E+00	1.11E-08	6.45E-06	0.00E+00	0.00E+00	1.95E-04
437	ALL		285650	4026650	NonCancer	0.00E+00	1.89E-07	0.00E+00	1.25E-08	1.25E-08	1.25E-08	2.16E-04	0.00E+00	4.72E-07	0.00E+00	1.25E-08	7.30E-06	0.00E+00	0.00E+00	2.16E-04
438	ALL		285750	4026650	NonCancer	0.00E+00	2.13E-07	0.00E+00	1.42E-08	1.42E-08	1.42E-08	2.44E-04	0.00E+00	5.33E-07	0.00E+00	1.42E-08	8.25E-06	0.00E+00	0.00E+00	2.44E-04
439	ALL		285850	4026650	NonCancer	0.00E+00	2.41E-07	0.00E+00	1.60E-08	1.60E-08	1.60E-08	2.85E-04	0.00E+00	6.02E-07	0.00E+00	1.60E-08	9.32E-06	0.00E+00	0.00E+00	2.85E-04
440	ALL		287650	4026650	NonCancer	0.00E+00	5.06E-07	0.00E+00	3.36E-08	3.36E-08	3.36E-08	2.04E-04	0.00E+00	1.26E-06	0.00E+00	3.36E-08	1.96E-05	0.00E+00	0.00E+00	2.04E-04
441	ALL		287750	4026650	NonCancer	0.00E+00	4.15E-07	0.00E+00	2.76E-08	2.76E-08	2.76E-08	1.47E-04	0.00E+00	1.04E-06	0.00E+00	2.76E-08	1.59E-05	0.00E+00	0.00E+00	1.47E-04
442	ALL		287850	4026650	NonCancer	0.00E+00	3.37E-07	0.00E+00	2.23E-08	2.23E-08	2.23E-08	1.18E-04	0.00E+00	8.40E-07	0.00E+00	2.23E-08	1.29E-05	0.00E+00	0.00E+00	1.18E-04
443	ALL		287950	4026650	NonCancer	0.00E+00	2.48E-07	0.00E+00	1.65E-08	1.65E-08	1.65E-08	1.00E-04	0.00E+00	6.19E-07	0.00E+00	1.65E-08	9.46E-06	0.00E+00	0.00E+00	1.00E-04
444	ALL		288050	4026650	NonCancer	0.00E+00	1.92E-07	0.00E+00	1.28E-08	1.28E-08	1.28E-08	8.69E-05	0.00E+00	4.80E-07	0.00E+00	1.28E-08	7.34E-06	0.00E+00	0.00E+00	8.69E-05
445	ALL		288150	4026650	NonCancer	0.00E+00	1.54E-07	0.00E+00	1.03E-08	1.03E-08	1.03E-08	7.68E-05	0.00E+00	3.85E-07	0.00E+00	1.03E-08	5.92E-06	0.00E+00	0.00E+00	7.68E-05
446	ALL		288250	4026650	NonCancer	0.00E+00	1.33E-07	0.00E+00	8.85E-09	8.85E-09	8.85E-09	6.87E-05	0.00E+00	3.33E-07	0.00E+00	8.85E-09	5.14E-06	0.00E+00	0.00E+00	6.87E-05
447	ALL		285150	4026750	NonCancer	0.00E+00	1.19E-07	0.00E+00	7.90E-09	7.90E-09	7.90E-09	1.31E-04	0.00E+00	2.97E-07	0.00E+00	7.90E-09	4.59E-06	0.00E+00	0.00E+00	1.31E-04
448	ALL		285250	4026750	NonCancer	0.00E+00	1.32E-07	0.00E+00	8.76E-09	8.76E-09	8.76E-09	1.41E-04	0.00E+00	3.30E-07	0.00E+00	8.76E-09	5.09E-06	0.00E+00	0.00E+00	1.41E-04
449	ALL		285350	4026750	NonCancer	0.00E+00	1.46E-07	0.00E+00	9.71E-09	9.71E-09	9.71E-09	1.53E-04	0.00E+00	3.65E-07	0.00E+00	9.71E-09	5.65E-06	0.00E+00	0.00E+00	1.53E-04
450	ALL		285450	4026750	NonCancer	0.00E+00	1.62E-07	0.00E+00	1.07E-08	1.07E-08	1.07E-08	1.66E-04	0.00E+00	4.04E-07	0.00E+00	1.07E-08	6.26E-06	0.00E+00	0.00E+00	1.66E-04
451	ALL		285550	4026750	NonCancer	0.00E+00	1.79E-07	0.00E+00	1.19E-08	1.19E-08	1.19E-08	1.83E-04	0.00E+00	4.47E-07	0.00E+00	1.19E-08	6.92E-06	0.00E+00	0.00E+00	1.83E-04
452	ALL		285650	4026750	NonCancer	0.00E+00	1.98E-07	0.00E+00	1.31E-08	1.31E-08	1.31E-08	2.04E-04	0.00E+00	4.94E-07	0.00E+00	1.31E-08	7.65E-06	0.00E+00	0.00E+00	2.04E-04
453	ALL		285750	4026750	NonCancer	0.00E+00	2.20E-07	0.00E+00	1.46E-08	1.46E-08	1.46E-08	2.32E-04	0.00E+00	5.49E-07	0.00E+00	1.46E-08	8.49E-06	0.00E+00	0.00E+00	2.32E-04
454	ALL		285850	4026750	NonCancer	0.00E+00	2.47E-07	0.00E+00	1.64E-08	1.64E-08	1.64E-08	2.71E-04	0.00E+00	6.17E-07	0.00E+00	1.64E-08	9.55E-06	0.00E+00	0.00E+00	2.71E-04
455	ALL		287650	4026750	NonCancer	0.00E+00	3.60E-07	0.00E+00	2.39E-08	2.39E-08	2.39E-08	1.62E-04	0.00E+00	8.99E-07	0.00E+00	2.39E-08	1.40E-05	0.00E+00	0.00E+00	1.62E-04
456	ALL		287750	4026750	NonCancer	0.00E+00	3.55E-07	0.00E+00	2.36E-08	2.36E-08	2.36E-08	1.24E-04	0.00E+00	8.86E-07	0.00E+00	2.36E-08	1.36E-05	0.00E+00	0.00E+00	1.24E-04
457	ALL		287850	4026750	NonCancer	0.00E+00	2.81E-07	0.00E+00	1.86E-08	1.86E-08	1.86E-08	1.02E-04	0.00E+00	7.01E-07	0.00E+00	1.86E-08	1.08E-05	0.00E+00	0.00E+00	1.02E-04
458	ALL		287950	4026750	NonCancer	0.00E+00	2.41E-07	0.00E+00	1.60E-08	1.60E-08	1.60E-08	8.68E-05	0.00E+00	6.02E-07	0.00E+00	1.60E-08	9.22E-06	0.00E+00	0.00E+00	8.68E-05
459	ALL		288050	4026750	NonCancer	0.00E+00	1.85E-07	0.00E+00	1.23E-08	1.23E-08	1.23E-08	7.55E-05	0.00E+00	4.61E-07	0.00E+00	1.23E-08	7.06E-06	0.00E+00	0.00E+00	7.55E-05
460	ALL		288150	4026750	NonCancer	0.00E+00	1.49E-07	0.00E+00	9.88E-09	9.88E-09	9.88E-09	6.66E-05	0.00E+00	3.71E-07	0.00E+00	9.88E-09	5.69E-06	0.00E+00	0.00E+00	6.66E-05
461	ALL		288250	4026750	NonCancer	0.00E+00	1.22E-07	0.00E+00	8.12E-09	8.12E-09	8.12E-09	5.95E-05	0.00E+00	3.05E-07	0.00E+00	8.12E-09	4.68E-06	0.00E+00	0.00E+00	5.95E-05
462	ALL		285150	4026850	NonCancer	0.00E+00	1.28E-07	0.00E+00	8.48E-09	8.48E-09	8.48E-09	1.23E-04	0.00E+00	3.19E-07	0.00E+00	8.48E-09	4.94E-06	0.00E+00	0.00E+00	1.23E-04
463	ALL		285250	4026850	NonCancer	0.00E+00	1.39E-07	0.00E+00	9.23E-09	9.23E-09	9.23E-09	1.33E-04	0.00E+00	3.48E-07	0.00E+00	9.23E-09	5.38E-06	0.00E+00	0.00E+00	1.33E-04
464	ALL		285350	4026850	NonCancer	0.00E+00	1.51E-07	0.00E+00	1.00E-08	1.00E-08	1.00E-08	1.44E-04	0.00E+00	3.78E-07	0.00E+00	1.00E-08	5.85E-06	0.00E+00	0.00E+00	1.44E-04
465	ALL		285450	4026850	NonCancer	0.00E+00	1.65E-07	0.00E+00	1.09E-08	1.09E-08	1.09E-08	1.57E-04	0.00E+00	4.12E-07	0.00E+00	1.09E-08	6.38E-06	0.00E+00	0.00E+00	1.57E-04
466	ALL		285550	4026850	NonCancer	0.00E+00	1.81E-07	0.00E+00	1.20E-08	1.20E-08	1.20E-08	1.73E-04	0.00E+00	4.53E-07	0.00E+00	1.20E-08	7.01E-06	0.00E+00	0.00E+00	1.73E-04
467	ALL		285650	4026850	NonCancer	0.00E+00	2.02E-07	0.00E+00	1.34E-08	1.34E-08	1.34E-08	1.94E-04	0.00E+00	5.04E-07	0.00E+00	1.34E-08	7.80E-06	0.00E+00	0.00E+00	1.94E-04
468	ALL		285750	4026850	NonCancer	0.00E+00	2.28E-07	0.00E+00	1.51E-08	1.51E-08	1.51E-08	2.20E-04	0.00E+00	5.70E-07	0.00E+00	1.51E-08	8.82E-06	0.00E+00	0.00E+00	2.20E-04
469	ALL		285850	4026850	NonCancer	0.00E+00	2.61E-07	0.00E+00	1.73E-08	1.73E-08	1.73E-08	2.55E-04	0.00E+00	6.53E-07	0.00E+00	1.73E-08	1.01E-05	0.00E+00	0.00E+00	2.55E-04
470	ALL		286750	4026850	NonCancer	0.00E+00	5.62E-07	0.00E+00	3.73E-08	3.73E-08	3.73E-08	2.73E-04	0.00E+00	1.40E-06	0.00E+00	3.73E-08	2.18E-05	0.00E+00	0.00E+00	2.73E-04
471	ALL		286850	4026850	NonCancer	0.00E+00	6.22E-07	0.00E+00	4.13E-08	4.13E-08	4.13E-08	2.29E-04	0.00E+00	1.55E-06	0.00E+00	4.13E-08	2.41E-05	0.00E+00	0.00E+00	2.29E-04
472	ALL		286950	4026850	NonCancer	0.00E+00	5.86E-07	0.00E+00	3.89E-08	3.89E-08	3.89E-08	2.07E-04	0.00E+00	1.46E-06	0.00E+00	3.89E-08	2.25E-05	0.00E+00	0.00E+00	2.07E-04
473	ALL		287050	4026850	NonCancer	0.00E+00	4.46E-07	0.00E+00	2.96E-08	2.96E-08	2.96E-08	1.91E-04	0.00E+00	1.11E-06	0.00E+00	2.96E-08	1.71E-05	0.00E+00	0.00E+00	1.91E-04
474	ALL		287150	4026850	NonCancer	0.00E+00	4.05E-07	0.00E+00	2.69E-08	2.69E-08	2.69E-08	1.78E-04	0.00E+00	1.01E-06	0.00E+00	2.69E-08	1.57E-05	0.00E+00	0.00E+00	1.78E-04
475	ALL		287250	4026850	NonCancer	0.00E+00	3.91E-07	0.00E+00	2.59E-08	2.59E-08	2.59E-08	1.66E-04	0.00E+00	9.76E-07	0.00E+00	2.59E-08	1.51E-05	0.00E+00	0.00E+00	1.66E-04
476	ALL		287350	4026850	NonCancer	0.00E+00	3.59E-07	0.00E+00	2.38E-08	2.38E-08	2.38E-08	1.55E-04	0.00E+00	8.96E-07	0.00E+00	2.38E-08	1.39E-05	0.00E+00	0.00E+00	1.55E-04
477	ALL		287450	4026850	NonCancer	0.00E+00	3.51E-07	0.00E+00	2.33E-08	2.33E-08	2.33E-08	1.49E-04	0.00E+00	8.77E-07	0.00E+00	2.33E-08	1.36E-05	0.00E+00	0.00E+00	1.49E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
478	ALL		287650	4026850	NonCancer	0.00E+00	2.78E-07	0.00E+00	1.84E-08	1.84E-08	1.84E-08	1.44E-04	0.00E+00	6.94E-07	0.00E+00	1.84E-08	1.07E-05	0.00E+00	0.00E+00	1.44E-04
479	ALL		287750	4026850	NonCancer	0.00E+00	2.78E-07	0.00E+00	1.84E-08	1.84E-08	1.84E-08	1.10E-04	0.00E+00	6.95E-07	0.00E+00	1.84E-08	1.08E-05	0.00E+00	0.00E+00	1.10E-04
480	ALL		287850	4026850	NonCancer	0.00E+00	2.53E-07	0.00E+00	1.68E-08	1.68E-08	1.68E-08	9.07E-05	0.00E+00	6.31E-07	0.00E+00	1.68E-08	9.66E-06	0.00E+00	0.00E+00	9.07E-05
481	ALL		287950	4026850	NonCancer	0.00E+00	2.06E-07	0.00E+00	1.37E-08	1.37E-08	1.37E-08	7.73E-05	0.00E+00	5.14E-07	0.00E+00	1.37E-08	7.93E-06	0.00E+00	0.00E+00	7.73E-05
482	ALL		288050	4026850	NonCancer	0.00E+00	1.83E-07	0.00E+00	1.21E-08	1.21E-08	1.21E-08	6.71E-05	0.00E+00	4.56E-07	0.00E+00	1.21E-08	6.99E-06	0.00E+00	0.00E+00	6.71E-05
483	ALL		288150	4026850	NonCancer	0.00E+00	1.44E-07	0.00E+00	9.58E-09	9.58E-09	9.58E-09	5.91E-05	0.00E+00	3.60E-07	0.00E+00	9.58E-09	5.51E-06	0.00E+00	0.00E+00	5.91E-05
484	ALL		288250	4026850	NonCancer	0.00E+00	1.19E-07	0.00E+00	7.92E-09	7.92E-09	7.92E-09	5.25E-05	0.00E+00	2.98E-07	0.00E+00	7.92E-09	4.57E-06	0.00E+00	0.00E+00	5.25E-05
485	ALL		285150	4026950	NonCancer	0.00E+00	1.30E-07	0.00E+00	8.59E-09	8.59E-09	8.59E-09	1.16E-04	0.00E+00	3.24E-07	0.00E+00	8.59E-09	5.00E-06	0.00E+00	0.00E+00	1.16E-04
486	ALL		285250	4026950	NonCancer	0.00E+00	1.40E-07	0.00E+00	9.29E-09	9.29E-09	9.29E-09	1.25E-04	0.00E+00	3.50E-07	0.00E+00	9.29E-09	5.41E-06	0.00E+00	0.00E+00	1.25E-04
487	ALL		285350	4026950	NonCancer	0.00E+00	1.53E-07	0.00E+00	1.01E-08	1.01E-08	1.01E-08	1.35E-04	0.00E+00	3.82E-07	0.00E+00	1.01E-08	5.90E-06	0.00E+00	0.00E+00	1.35E-04
488	ALL		285450	4026950	NonCancer	0.00E+00	1.69E-07	0.00E+00	1.12E-08	1.12E-08	1.12E-08	1.47E-04	0.00E+00	4.21E-07	0.00E+00	1.12E-08	6.52E-06	0.00E+00	0.00E+00	1.47E-04
489	ALL		285550	4026950	NonCancer	0.00E+00	1.89E-07	0.00E+00	1.25E-08	1.25E-08	1.25E-08	1.62E-04	0.00E+00	4.72E-07	0.00E+00	1.25E-08	7.31E-06	0.00E+00	0.00E+00	1.62E-04
490	ALL		285650	4026950	NonCancer	0.00E+00	2.14E-07	0.00E+00	1.42E-08	1.42E-08	1.42E-08	1.79E-04	0.00E+00	5.34E-07	0.00E+00	1.42E-08	8.26E-06	0.00E+00	0.00E+00	1.79E-04
491	ALL		285750	4026950	NonCancer	0.00E+00	2.41E-07	0.00E+00	1.60E-08	1.60E-08	1.60E-08	2.00E-04	0.00E+00	6.03E-07	0.00E+00	1.60E-08	9.33E-06	0.00E+00	0.00E+00	2.00E-04
492	ALL		285850	4026950	NonCancer	0.00E+00	2.69E-07	0.00E+00	1.78E-08	1.78E-08	1.78E-08	2.29E-04	0.00E+00	6.71E-07	0.00E+00	1.78E-08	1.04E-05	0.00E+00	0.00E+00	2.29E-04
493	ALL		285950	4026950	NonCancer	0.00E+00	2.93E-07	0.00E+00	1.94E-08	1.94E-08	1.94E-08	2.62E-04	0.00E+00	7.31E-07	0.00E+00	1.94E-08	1.13E-05	0.00E+00	0.00E+00	2.62E-04
494	ALL		286050	4026950	NonCancer	0.00E+00	3.11E-07	0.00E+00	2.07E-08	2.07E-08	2.07E-08	2.80E-04	0.00E+00	7.78E-07	0.00E+00	2.07E-08	1.20E-05	0.00E+00	0.00E+00	2.80E-04
495	ALL		286150	4026950	NonCancer	0.00E+00	3.25E-07	0.00E+00	2.15E-08	2.15E-08	2.15E-08	2.86E-04	0.00E+00	8.11E-07	0.00E+00	2.15E-08	1.26E-05	0.00E+00	0.00E+00	2.86E-04
496	ALL		286250	4026950	NonCancer	0.00E+00	3.36E-07	0.00E+00	2.23E-08	2.23E-08	2.23E-08	2.83E-04	0.00E+00	8.39E-07	0.00E+00	2.23E-08	1.30E-05	0.00E+00	0.00E+00	2.83E-04
497	ALL		286350	4026950	NonCancer	0.00E+00	3.47E-07	0.00E+00	2.30E-08	2.30E-08	2.30E-08	2.73E-04	0.00E+00	8.68E-07	0.00E+00	2.30E-08	1.34E-05	0.00E+00	0.00E+00	2.73E-04
498	ALL		286450	4026950	NonCancer	0.00E+00	3.72E-07	0.00E+00	2.47E-08	2.47E-08	2.47E-08	2.54E-04	0.00E+00	9.29E-07	0.00E+00	2.47E-08	1.44E-05	0.00E+00	0.00E+00	2.54E-04
499	ALL		286550	4026950	NonCancer	0.00E+00	4.11E-07	0.00E+00	2.73E-08	2.73E-08	2.73E-08	2.31E-04	0.00E+00	1.03E-06	0.00E+00	2.73E-08	1.59E-05	0.00E+00	0.00E+00	2.31E-04
500	ALL		286650	4026950	NonCancer	0.00E+00	4.44E-07	0.00E+00	2.94E-08	2.94E-08	2.94E-08	2.02E-04	0.00E+00	1.11E-06	0.00E+00	2.94E-08	1.72E-05	0.00E+00	0.00E+00	2.02E-04
501	ALL		286750	4026950	NonCancer	0.00E+00	4.87E-07	0.00E+00	3.23E-08	3.23E-08	3.23E-08	1.81E-04	0.00E+00	1.22E-06	0.00E+00	3.23E-08	1.89E-05	0.00E+00	0.00E+00	1.81E-04
502	ALL		286850	4026950	NonCancer	0.00E+00	4.94E-07	0.00E+00	3.27E-08	3.27E-08	3.27E-08	1.66E-04	0.00E+00	1.23E-06	0.00E+00	3.27E-08	1.90E-05	0.00E+00	0.00E+00	1.66E-04
503	ALL		286950	4026950	NonCancer	0.00E+00	4.06E-07	0.00E+00	2.70E-08	2.70E-08	2.70E-08	1.53E-04	0.00E+00	1.01E-06	0.00E+00	2.70E-08	1.56E-05	0.00E+00	0.00E+00	1.53E-04
504	ALL		287050	4026950	NonCancer	0.00E+00	3.22E-07	0.00E+00	2.14E-08	2.14E-08	2.14E-08	1.43E-04	0.00E+00	8.04E-07	0.00E+00	2.14E-08	1.24E-05	0.00E+00	0.00E+00	1.43E-04
505	ALL		287150	4026950	NonCancer	0.00E+00	3.25E-07	0.00E+00	2.16E-08	2.16E-08	2.16E-08	1.34E-04	0.00E+00	8.12E-07	0.00E+00	2.16E-08	1.26E-05	0.00E+00	0.00E+00	1.34E-04
506	ALL		287250	4026950	NonCancer	0.00E+00	3.01E-07	0.00E+00	2.00E-08	2.00E-08	2.00E-08	1.27E-04	0.00E+00	7.52E-07	0.00E+00	2.00E-08	1.16E-05	0.00E+00	0.00E+00	1.27E-04
507	ALL		287350	4026950	NonCancer	0.00E+00	2.81E-07	0.00E+00	1.87E-08	1.87E-08	1.87E-08	1.21E-04	0.00E+00	7.03E-07	0.00E+00	1.87E-08	1.09E-05	0.00E+00	0.00E+00	1.21E-04
508	ALL		287450	4026950	NonCancer	0.00E+00	2.76E-07	0.00E+00	1.83E-08	1.83E-08	1.83E-08	1.23E-04	0.00E+00	6.91E-07	0.00E+00	1.83E-08	1.07E-05	0.00E+00	0.00E+00	1.23E-04
509	ALL		287650	4026950	NonCancer	0.00E+00	2.30E-07	0.00E+00	1.52E-08	1.52E-08	1.52E-08	1.32E-04	0.00E+00	5.73E-07	0.00E+00	1.52E-08	8.82E-06	0.00E+00	0.00E+00	1.32E-04
510	ALL		287750	4026950	NonCancer	0.00E+00	2.14E-07	0.00E+00	1.42E-08	1.42E-08	1.42E-08	1.01E-04	0.00E+00	5.35E-07	0.00E+00	1.42E-08	8.30E-06	0.00E+00	0.00E+00	1.01E-04
511	ALL		287850	4026950	NonCancer	0.00E+00	2.20E-07	0.00E+00	1.46E-08	1.46E-08	1.46E-08	8.28E-05	0.00E+00	5.50E-07	0.00E+00	1.46E-08	8.48E-06	0.00E+00	0.00E+00	8.28E-05
512	ALL		287950	4026950	NonCancer	0.00E+00	1.87E-07	0.00E+00	1.24E-08	1.24E-08	1.24E-08	7.03E-05	0.00E+00	4.66E-07	0.00E+00	1.24E-08	7.14E-06	0.00E+00	0.00E+00	7.03E-05
513	ALL		288050	4026950	NonCancer	0.00E+00	1.60E-07	0.00E+00	1.06E-08	1.06E-08	1.06E-08	6.08E-05	0.00E+00	3.99E-07	0.00E+00	1.06E-08	6.16E-06	0.00E+00	0.00E+00	6.08E-05
514	ALL		288150	4026950	NonCancer	0.00E+00	1.45E-07	0.00E+00	9.59E-09	9.59E-09	9.59E-09	5.33E-05	0.00E+00	3.61E-07	0.00E+00	9.59E-09	5.53E-06	0.00E+00	0.00E+00	5.33E-05
515	ALL		288250	4026950	NonCancer	0.00E+00	1.17E-07	0.00E+00	7.73E-09	7.73E-09	7.73E-09	4.70E-05	0.00E+00	2.91E-07	0.00E+00	7.73E-09	4.45E-06	0.00E+00	0.00E+00	4.70E-05
516	ALL		285150	4027050	NonCancer	0.00E+00	1.31E-07	0.00E+00	8.68E-09	8.68E-09	8.68E-09	1.10E-04	0.00E+00	3.27E-07	0.00E+00	8.68E-09	5.06E-06	0.00E+00	0.00E+00	1.10E-04
517	ALL		285250	4027050	NonCancer	0.00E+00	1.44E-07	0.00E+00	9.54E-09	9.54E-09	9.54E-09	1.18E-04	0.00E+00	3.59E-07	0.00E+00	9.54E-09	5.56E-06	0.00E+00	0.00E+00	1.18E-04
518	ALL		285350	4027050	NonCancer	0.00E+00	1.60E-07	0.00E+00	1.06E-08	1.06E-08	1.06E-08	1.27E-04	0.00E+00	3.99E-07	0.00E+00	1.06E-08	6.17E-06	0.00E+00	0.00E+00	1.27E-04
519	ALL		285450	4027050	NonCancer	0.00E+00	1.79E-07	0.00E+00	1.19E-08	1.19E-08	1.19E-08	1.37E-04	0.00E+00	4.47E-07	0.00E+00	1.19E-08	6.91E-06	0.00E+00	0.00E+00	1.37E-04
520	ALL		285550	4027050	NonCancer	0.00E+00	1.99E-07	0.00E+00	1.32E-08	1.32E-08	1.32E-08	1.48E-04	0.00E+00	4.98E-07	0.00E+00	1.32E-08	7.71E-06	0.00E+00	0.00E+00	1.48E-04
521	ALL		285650	4027050	NonCancer	0.00E+00	2.20E-07	0.00E+00	1.46E-08	1.46E-08	1.46E-08	1.61E-04	0.00E+00	5.49E-07	0.00E+00	1.46E-08	8.50E-06	0.00E+00	0.00E+00	1.61E-04
522	ALL		285750	4027050	NonCancer	0.00E+00	2.38E-07	0.00E+00	1.58E-08	1.58E-08	1.58E-08	1.74E-04	0.00E+00	5.94E-07	0.00E+00	1.58E-08	9.19E-06	0.00E+00	0.00E+00	1.74E-04
523	ALL		285850	4027050	NonCancer	0.00E+00	2.52E-07	0.00E+00	1.67E-08	1.67E-08	1.67E-08	1.86E-04	0.00E+00	6.30E-07	0.00E+00	1.67E-08	9.75E-06	0.00E+00	0.00E+00	1.86E-04
524	ALL		285950	4027050	NonCancer	0.00E+00	2.63E-07	0.00E+00	1.74E-08	1.74E-08	1.74E-08	1.94E-04	0.00E+00	6.56E-07	0.00E+00	1.74E-08	1.02E-05	0.00E+00	0.00E+00	1.94E-04
525	ALL		286050	4027050	NonCancer	0.00E+00	2.71E-07	0.00E+00	1.80E-08	1.80E-08	1.80E-08	1.98E-04	0.00E+00	6.77E-07	0.00E+00	1.80E-08	1.05E-05	0.00E+00	0.00E+00	1.98E-04
526	ALL		286150	4027050	NonCancer	0.00E+00	2.79E-07	0.00E+00	1.85E-08	1.85E-08	1.85E-08	1.97E-04	0.00E+00	6.97E-07	0.00E+00	1.85E-08	1.08E-05	0.00E+00	0.00E+00	1.97E-04
527	ALL		286250	4027050	NonCancer	0.00E+00	2.88E-07	0.00E+00	1.91E-08	1.91E-08	1.91E-08	1.93E-04	0.00E+00	7.19E-07	0.00E+00	1.91E-08	1.11E-05	0.00E+00	0.00E+00	1.93E-04
528	ALL		286350	4027050	NonCancer	0.00E+00	3.09E-07	0.00E+00	2.05E-08	2.05E-08	2.05E-08	1.85E-04	0.00E+00	7.72E-07	0.00E+00	2.05E-08	1.20E-05	0.00E+00	0.00E+00	1.85E-04
529	ALL		286450	4027050	NonCancer	0.00E+00	3.38E-07	0.00E+00	2.25E-08	2.25E-08	2.25E-08	1.75E-04	0.00E+00	8.46E-07	0.00E+00	2.25E-08	1.31E-05	0.00E+00	0.00E+00	1.75E-04
530	ALL		286550	4027050	NonCancer	0.00E+00	3.61E-07	0.00E+00	2.40E-08	2.40E-08	2.40E-08	1.63E-04	0.00E+00	9.02E-07	0.00E+00	2.40E-08	1.40E-05	0.00E+00	0.00E+00	1.63E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
531	ALL		286650	4027050	NonCancer	0.00E+00	3.91E-07	0.00E+00	2.59E-08	2.59E-08	2.59E-08	1.50E-04	0.00E+00	9.78E-07	0.00E+00	2.59E-08	1.52E-05	0.00E+00	0.00E+00	1.50E-04
532	ALL		286750	4027050	NonCancer	0.00E+00	4.13E-07	0.00E+00	2.74E-08	2.74E-08	2.74E-08	1.40E-04	0.00E+00	1.03E-06	0.00E+00	2.74E-08	1.59E-05	0.00E+00	0.00E+00	1.40E-04
533	ALL		286850	4027050	NonCancer	0.00E+00	3.68E-07	0.00E+00	2.44E-08	2.44E-08	2.44E-08	1.31E-04	0.00E+00	9.17E-07	0.00E+00	2.44E-08	1.41E-05	0.00E+00	0.00E+00	1.31E-04
534	ALL		286950	4027050	NonCancer	0.00E+00	2.91E-07	0.00E+00	1.93E-08	1.93E-08	1.93E-08	1.22E-04	0.00E+00	7.26E-07	0.00E+00	1.93E-08	1.12E-05	0.00E+00	0.00E+00	1.22E-04
535	ALL		287050	4027050	NonCancer	0.00E+00	2.57E-07	0.00E+00	1.70E-08	1.70E-08	1.70E-08	1.15E-04	0.00E+00	6.42E-07	0.00E+00	1.70E-08	9.95E-06	0.00E+00	0.00E+00	1.15E-04
536	ALL		287150	4027050	NonCancer	0.00E+00	2.64E-07	0.00E+00	1.75E-08	1.75E-08	1.75E-08	1.09E-04	0.00E+00	6.60E-07	0.00E+00	1.75E-08	1.02E-05	0.00E+00	0.00E+00	1.09E-04
537	ALL		287250	4027050	NonCancer	0.00E+00	2.40E-07	0.00E+00	1.59E-08	1.59E-08	1.59E-08	1.05E-04	0.00E+00	6.00E-07	0.00E+00	1.59E-08	9.27E-06	0.00E+00	0.00E+00	1.05E-04
538	ALL		287350	4027050	NonCancer	0.00E+00	2.28E-07	0.00E+00	1.51E-08	1.51E-08	1.51E-08	1.03E-04	0.00E+00	5.69E-07	0.00E+00	1.51E-08	8.80E-06	0.00E+00	0.00E+00	1.03E-04
539	ALL		287450	4027050	NonCancer	0.00E+00	2.24E-07	0.00E+00	1.49E-08	1.49E-08	1.49E-08	1.09E-04	0.00E+00	5.60E-07	0.00E+00	1.49E-08	8.68E-06	0.00E+00	0.00E+00	1.09E-04
540	ALL		287650	4027050	NonCancer	0.00E+00	1.95E-07	0.00E+00	1.30E-08	1.30E-08	1.30E-08	1.24E-04	0.00E+00	4.88E-07	0.00E+00	1.30E-08	7.50E-06	0.00E+00	0.00E+00	1.24E-04
541	ALL		287750	4027050	NonCancer	0.00E+00	1.74E-07	0.00E+00	1.15E-08	1.15E-08	1.15E-08	9.42E-05	0.00E+00	4.35E-07	0.00E+00	1.15E-08	6.72E-06	0.00E+00	0.00E+00	9.42E-05
542	ALL		287850	4027050	NonCancer	0.00E+00	1.79E-07	0.00E+00	1.19E-08	1.19E-08	1.19E-08	7.67E-05	0.00E+00	4.48E-07	0.00E+00	1.19E-08	6.94E-06	0.00E+00	0.00E+00	7.67E-05
543	ALL		287950	4027050	NonCancer	0.00E+00	1.73E-07	0.00E+00	1.15E-08	1.15E-08	1.15E-08	6.47E-05	0.00E+00	4.32E-07	0.00E+00	1.15E-08	6.64E-06	0.00E+00	0.00E+00	6.47E-05
544	ALL		288050	4027050	NonCancer	0.00E+00	1.44E-07	0.00E+00	9.56E-09	9.56E-09	9.56E-09	5.55E-05	0.00E+00	3.60E-07	0.00E+00	9.56E-09	5.52E-06	0.00E+00	0.00E+00	5.55E-05
545	ALL		288150	4027050	NonCancer	0.00E+00	1.29E-07	0.00E+00	8.56E-09	8.56E-09	8.56E-09	4.82E-05	0.00E+00	3.22E-07	0.00E+00	8.56E-09	4.98E-06	0.00E+00	0.00E+00	4.82E-05
546	ALL		288250	4027050	NonCancer	0.00E+00	1.18E-07	0.00E+00	7.81E-09	7.81E-09	7.81E-09	4.24E-05	0.00E+00	2.94E-07	0.00E+00	7.81E-09	4.50E-06	0.00E+00	0.00E+00	4.24E-05
547	ALL		285250	4027150	NonCancer	0.00E+00	1.52E-07	0.00E+00	1.01E-08	1.01E-08	1.01E-08	1.10E-04	0.00E+00	3.80E-07	0.00E+00	1.01E-08	5.88E-06	0.00E+00	0.00E+00	1.10E-04
548	ALL		285350	4027150	NonCancer	0.00E+00	1.68E-07	0.00E+00	1.12E-08	1.12E-08	1.12E-08	1.18E-04	0.00E+00	4.20E-07	0.00E+00	1.12E-08	6.50E-06	0.00E+00	0.00E+00	1.18E-04
549	ALL		285450	4027150	NonCancer	0.00E+00	1.84E-07	0.00E+00	1.22E-08	1.22E-08	1.22E-08	1.26E-04	0.00E+00	4.59E-07	0.00E+00	1.22E-08	7.10E-06	0.00E+00	0.00E+00	1.26E-04
550	ALL		285550	4027150	NonCancer	0.00E+00	1.98E-07	0.00E+00	1.31E-08	1.31E-08	1.31E-08	1.33E-04	0.00E+00	4.94E-07	0.00E+00	1.31E-08	7.64E-06	0.00E+00	0.00E+00	1.33E-04
551	ALL		285650	4027150	NonCancer	0.00E+00	2.09E-07	0.00E+00	1.39E-08	1.39E-08	1.39E-08	1.41E-04	0.00E+00	5.22E-07	0.00E+00	1.39E-08	8.08E-06	0.00E+00	0.00E+00	1.41E-04
552	ALL		285750	4027150	NonCancer	0.00E+00	2.18E-07	0.00E+00	1.44E-08	1.44E-08	1.44E-08	1.47E-04	0.00E+00	5.44E-07	0.00E+00	1.44E-08	8.41E-06	0.00E+00	0.00E+00	1.47E-04
553	ALL		285850	4027150	NonCancer	0.00E+00	2.24E-07	0.00E+00	1.49E-08	1.49E-08	1.49E-08	1.51E-04	0.00E+00	5.60E-07	0.00E+00	1.49E-08	8.66E-06	0.00E+00	0.00E+00	1.51E-04
554	ALL		285950	4027150	NonCancer	0.00E+00	2.30E-07	0.00E+00	1.53E-08	1.53E-08	1.53E-08	1.54E-04	0.00E+00	5.75E-07	0.00E+00	1.53E-08	8.90E-06	0.00E+00	0.00E+00	1.54E-04
555	ALL		286050	4027150	NonCancer	0.00E+00	2.36E-07	0.00E+00	1.56E-08	1.56E-08	1.56E-08	1.54E-04	0.00E+00	5.89E-07	0.00E+00	1.56E-08	9.11E-06	0.00E+00	0.00E+00	1.54E-04
556	ALL		286150	4027150	NonCancer	0.00E+00	2.44E-07	0.00E+00	1.62E-08	1.62E-08	1.62E-08	1.52E-04	0.00E+00	6.09E-07	0.00E+00	1.62E-08	9.43E-06	0.00E+00	0.00E+00	1.52E-04
557	ALL		286250	4027150	NonCancer	0.00E+00	2.62E-07	0.00E+00	1.74E-08	1.74E-08	1.74E-08	1.48E-04	0.00E+00	6.54E-07	0.00E+00	1.74E-08	1.01E-05	0.00E+00	0.00E+00	1.48E-04
558	ALL		286350	4027150	NonCancer	0.00E+00	2.84E-07	0.00E+00	1.89E-08	1.89E-08	1.89E-08	1.43E-04	0.00E+00	7.11E-07	0.00E+00	1.89E-08	1.10E-05	0.00E+00	0.00E+00	1.43E-04
559	ALL		286450	4027150	NonCancer	0.00E+00	3.01E-07	0.00E+00	2.00E-08	2.00E-08	2.00E-08	1.36E-04	0.00E+00	7.52E-07	0.00E+00	2.00E-08	1.16E-05	0.00E+00	0.00E+00	1.36E-04
560	ALL		286550	4027150	NonCancer	0.00E+00	3.22E-07	0.00E+00	2.14E-08	2.14E-08	2.14E-08	1.28E-04	0.00E+00	8.04E-07	0.00E+00	2.14E-08	1.25E-05	0.00E+00	0.00E+00	1.28E-04
561	ALL		286650	4027150	NonCancer	0.00E+00	3.46E-07	0.00E+00	2.29E-08	2.29E-08	2.29E-08	1.21E-04	0.00E+00	8.63E-07	0.00E+00	2.29E-08	1.34E-05	0.00E+00	0.00E+00	1.21E-04
562	ALL		286750	4027150	NonCancer	0.00E+00	3.29E-07	0.00E+00	2.18E-08	2.18E-08	2.18E-08	1.14E-04	0.00E+00	8.20E-07	0.00E+00	2.18E-08	1.26E-05	0.00E+00	0.00E+00	1.14E-04
563	ALL		286850	4027150	NonCancer	0.00E+00	2.73E-07	0.00E+00	1.81E-08	1.81E-08	1.81E-08	1.08E-04	0.00E+00	6.81E-07	0.00E+00	1.81E-08	1.05E-05	0.00E+00	0.00E+00	1.08E-04
564	ALL		286950	4027150	NonCancer	0.00E+00	2.21E-07	0.00E+00	1.47E-08	1.47E-08	1.47E-08	1.02E-04	0.00E+00	5.52E-07	0.00E+00	1.47E-08	8.52E-06	0.00E+00	0.00E+00	1.02E-04
565	ALL		287050	4027150	NonCancer	0.00E+00	2.17E-07	0.00E+00	1.44E-08	1.44E-08	1.44E-08	9.72E-05	0.00E+00	5.42E-07	0.00E+00	1.44E-08	8.40E-06	0.00E+00	0.00E+00	9.72E-05
566	ALL		287150	4027150	NonCancer	0.00E+00	2.17E-07	0.00E+00	1.44E-08	1.44E-08	1.44E-08	9.34E-05	0.00E+00	5.42E-07	0.00E+00	1.44E-08	8.36E-06	0.00E+00	0.00E+00	9.34E-05
567	ALL		287250	4027150	NonCancer	0.00E+00	1.97E-07	0.00E+00	1.31E-08	1.31E-08	1.31E-08	9.08E-05	0.00E+00	4.93E-07	0.00E+00	1.31E-08	7.61E-06	0.00E+00	0.00E+00	9.08E-05
568	ALL		287350	4027150	NonCancer	0.00E+00	1.89E-07	0.00E+00	1.25E-08	1.25E-08	1.25E-08	9.13E-05	0.00E+00	4.72E-07	0.00E+00	1.25E-08	7.29E-06	0.00E+00	0.00E+00	9.13E-05
569	ALL		287450	4027150	NonCancer	0.00E+00	1.86E-07	0.00E+00	1.24E-08	1.24E-08	1.24E-08	9.86E-05	0.00E+00	4.65E-07	0.00E+00	1.24E-08	7.20E-06	0.00E+00	0.00E+00	9.86E-05
570	ALL		287650	4027150	NonCancer	0.00E+00	1.69E-07	0.00E+00	1.12E-08	1.12E-08	1.12E-08	1.18E-04	0.00E+00	4.21E-07	0.00E+00	1.12E-08	6.48E-06	0.00E+00	0.00E+00	1.18E-04
571	ALL		287750	4027150	NonCancer	0.00E+00	1.49E-07	0.00E+00	9.88E-09	9.88E-09	9.88E-09	8.81E-05	0.00E+00	3.72E-07	0.00E+00	9.88E-09	5.73E-06	0.00E+00	0.00E+00	8.81E-05
572	ALL		287850	4027150	NonCancer	0.00E+00	1.45E-07	0.00E+00	9.60E-09	9.60E-09	9.60E-09	7.11E-05	0.00E+00	3.62E-07	0.00E+00	9.60E-09	5.61E-06	0.00E+00	0.00E+00	7.11E-05
573	ALL		287950	4027150	NonCancer	0.00E+00	1.52E-07	0.00E+00	1.01E-08	1.01E-08	1.01E-08	5.95E-05	0.00E+00	3.79E-07	0.00E+00	1.01E-08	5.86E-06	0.00E+00	0.00E+00	5.95E-05
574	ALL		288050	4027150	NonCancer	0.00E+00	1.37E-07	0.00E+00	9.11E-09	9.11E-09	9.11E-09	5.06E-05	0.00E+00	3.42E-07	0.00E+00	9.11E-09	5.25E-06	0.00E+00	0.00E+00	5.06E-05
575	ALL		288150	4027150	NonCancer	0.00E+00	1.15E-07	0.00E+00	7.66E-09	7.66E-09	7.66E-09	4.37E-05	0.00E+00	2.88E-07	0.00E+00	7.66E-09	4.43E-06	0.00E+00	0.00E+00	4.37E-05
576	ALL		288250	4027150	NonCancer	0.00E+00	1.07E-07	0.00E+00	7.10E-09	7.10E-09	7.10E-09	3.82E-05	0.00E+00	2.67E-07	0.00E+00	7.10E-09	4.13E-06	0.00E+00	0.00E+00	3.82E-05
577	ALL		285250	4027250	NonCancer	0.00E+00	1.56E-07	0.00E+00	1.04E-08	1.04E-08	1.04E-08	1.02E-04	0.00E+00	3.91E-07	0.00E+00	1.04E-08	6.04E-06	0.00E+00	0.00E+00	1.02E-04
578	ALL		285350	4027250	NonCancer	0.00E+00	1.67E-07	0.00E+00	1.11E-08	1.11E-08	1.11E-08	1.08E-04	0.00E+00	4.18E-07	0.00E+00	1.11E-08	6.47E-06	0.00E+00	0.00E+00	1.08E-04
579	ALL		285450	4027250	NonCancer	0.00E+00	1.77E-07	0.00E+00	1.17E-08	1.17E-08	1.17E-08	1.13E-04	0.00E+00	4.41E-07	0.00E+00	1.17E-08	6.83E-06	0.00E+00	0.00E+00	1.13E-04
580	ALL		285550	4027250	NonCancer	0.00E+00	1.84E-07	0.00E+00	1.22E-08	1.22E-08	1.22E-08	1.18E-04	0.00E+00	4.59E-07	0.00E+00	1.22E-08	7.10E-06	0.00E+00	0.00E+00	1.18E-04
581	ALL		285650	4027250	NonCancer	0.00E+00	1.89E-07	0.00E+00	1.25E-08	1.25E-08	1.25E-08	1.22E-04	0.00E+00	4.72E-07	0.00E+00	1.25E-08	7.30E-06	0.00E+00	0.00E+00	1.22E-04
582	ALL		285750	4027250	NonCancer	0.00E+00	1.94E-07	0.00E+00	1.29E-08	1.29E-08	1.29E-08	1.25E-04	0.00E+00	4.84E-07	0.00E+00	1.29E-08	7.49E-06	0.00E+00	0.00E+00	1.25E-04
583	ALL		285850	4027250	NonCancer	0.00E+00	1.98E-07	0.00E+00	1.32E-08	1.32E-08	1.32E-08	1.26E-04	0.00E+00	4.96E-07	0.00E+00	1.32E-08	7.67E-06	0.00E+00	0.00E+00	1.26E-04

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
584	ALL		285950	4027250	NonCancer	0.00E+00	2.02E-07	0.00E+00	1.34E-08	1.34E-08	1.34E-08	1.26E-04	0.00E+00	5.06E-07	0.00E+00	1.34E-08	7.82E-06	0.00E+00	0.00E+00	1.26E-04
585	ALL		286050	4027250	NonCancer	0.00E+00	2.10E-07	0.00E+00	1.39E-08	1.39E-08	1.39E-08	1.25E-04	0.00E+00	5.24E-07	0.00E+00	1.39E-08	8.12E-06	0.00E+00	0.00E+00	1.25E-04
586	ALL		286150	4027250	NonCancer	0.00E+00	2.25E-07	0.00E+00	1.50E-08	1.50E-08	1.50E-08	1.23E-04	0.00E+00	5.63E-07	0.00E+00	1.50E-08	8.72E-06	0.00E+00	0.00E+00	1.23E-04
587	ALL		286250	4027250	NonCancer	0.00E+00	2.43E-07	0.00E+00	1.61E-08	1.61E-08	1.61E-08	1.20E-04	0.00E+00	6.08E-07	0.00E+00	1.61E-08	9.41E-06	0.00E+00	0.00E+00	1.20E-04
588	ALL		286350	4027250	NonCancer	0.00E+00	2.56E-07	0.00E+00	1.70E-08	1.70E-08	1.70E-08	1.16E-04	0.00E+00	6.39E-07	0.00E+00	1.70E-08	9.88E-06	0.00E+00	0.00E+00	1.16E-04
589	ALL		286450	4027250	NonCancer	0.00E+00	2.70E-07	0.00E+00	1.79E-08	1.79E-08	1.79E-08	1.11E-04	0.00E+00	6.76E-07	0.00E+00	1.79E-08	1.05E-05	0.00E+00	0.00E+00	1.11E-04
590	ALL		286550	4027250	NonCancer	0.00E+00	2.92E-07	0.00E+00	1.94E-08	1.94E-08	1.94E-08	1.06E-04	0.00E+00	7.29E-07	0.00E+00	1.94E-08	1.13E-05	0.00E+00	0.00E+00	1.06E-04
591	ALL		286650	4027250	NonCancer	0.00E+00	2.91E-07	0.00E+00	1.93E-08	1.93E-08	1.93E-08	1.01E-04	0.00E+00	7.26E-07	0.00E+00	1.93E-08	1.12E-05	0.00E+00	0.00E+00	1.01E-04
592	ALL		286750	4027250	NonCancer	0.00E+00	2.54E-07	0.00E+00	1.69E-08	1.69E-08	1.69E-08	9.59E-05	0.00E+00	6.35E-07	0.00E+00	1.69E-08	9.77E-06	0.00E+00	0.00E+00	9.59E-05
593	ALL		286850	4027250	NonCancer	0.00E+00	2.08E-07	0.00E+00	1.38E-08	1.38E-08	1.38E-08	9.15E-05	0.00E+00	5.18E-07	0.00E+00	1.38E-08	7.97E-06	0.00E+00	0.00E+00	9.15E-05
594	ALL		286950	4027250	NonCancer	0.00E+00	1.81E-07	0.00E+00	1.20E-08	1.20E-08	1.20E-08	8.75E-05	0.00E+00	4.52E-07	0.00E+00	1.20E-08	7.00E-06	0.00E+00	0.00E+00	8.75E-05
595	ALL		287050	4027250	NonCancer	0.00E+00	1.87E-07	0.00E+00	1.24E-08	1.24E-08	1.24E-08	8.44E-05	0.00E+00	4.68E-07	0.00E+00	1.24E-08	7.24E-06	0.00E+00	0.00E+00	8.44E-05
596	ALL		287150	4027250	NonCancer	0.00E+00	1.80E-07	0.00E+00	1.20E-08	1.20E-08	1.20E-08	8.22E-05	0.00E+00	4.50E-07	0.00E+00	1.20E-08	6.94E-06	0.00E+00	0.00E+00	8.22E-05
597	ALL		287250	4027250	NonCancer	0.00E+00	1.66E-07	0.00E+00	1.10E-08	1.10E-08	1.10E-08	8.13E-05	0.00E+00	4.14E-07	0.00E+00	1.10E-08	6.40E-06	0.00E+00	0.00E+00	8.13E-05
598	ALL		287350	4027250	NonCancer	0.00E+00	1.60E-07	0.00E+00	1.06E-08	1.06E-08	1.06E-08	8.32E-05	0.00E+00	3.99E-07	0.00E+00	1.06E-08	6.17E-06	0.00E+00	0.00E+00	8.32E-05
599	ALL		287450	4027250	NonCancer	0.00E+00	1.58E-07	0.00E+00	1.05E-08	1.05E-08	1.05E-08	9.12E-05	0.00E+00	3.94E-07	0.00E+00	1.05E-08	6.09E-06	0.00E+00	0.00E+00	9.12E-05
600	ALL		287650	4027250	NonCancer	0.00E+00	1.47E-07	0.00E+00	9.73E-09	9.73E-09	9.73E-09	1.13E-04	0.00E+00	3.66E-07	0.00E+00	9.73E-09	5.64E-06	0.00E+00	0.00E+00	1.13E-04
601	ALL		287750	4027250	NonCancer	0.00E+00	1.31E-07	0.00E+00	8.71E-09	8.71E-09	8.71E-09	8.27E-05	0.00E+00	3.28E-07	0.00E+00	8.71E-09	5.04E-06	0.00E+00	0.00E+00	8.27E-05
602	ALL		287850	4027250	NonCancer	0.00E+00	1.22E-07	0.00E+00	8.07E-09	8.07E-09	8.07E-09	6.56E-05	0.00E+00	3.04E-07	0.00E+00	8.07E-09	4.70E-06	0.00E+00	0.00E+00	6.56E-05
603	ALL		287950	4027250	NonCancer	0.00E+00	1.27E-07	0.00E+00	8.42E-09	8.42E-09	8.42E-09	5.40E-05	0.00E+00	3.17E-07	0.00E+00	8.42E-09	4.92E-06	0.00E+00	0.00E+00	5.40E-05
604	ALL		288050	4027250	NonCancer	0.00E+00	1.27E-07	0.00E+00	8.43E-09	8.43E-09	8.43E-09	4.56E-05	0.00E+00	3.17E-07	0.00E+00	8.43E-09	4.88E-06	0.00E+00	0.00E+00	4.56E-05
605	ALL		288150	4027250	NonCancer	0.00E+00	1.11E-07	0.00E+00	7.34E-09	7.34E-09	7.34E-09	3.94E-05	0.00E+00	2.76E-07	0.00E+00	7.34E-09	4.23E-06	0.00E+00	0.00E+00	3.94E-05
606	ALL		285350	4027350	NonCancer	0.00E+00	1.58E-07	0.00E+00	1.05E-08	1.05E-08	1.05E-08	9.75E-05	0.00E+00	3.94E-07	0.00E+00	1.05E-08	6.09E-06	0.00E+00	0.00E+00	9.75E-05
607	ALL		285450	4027350	NonCancer	0.00E+00	1.62E-07	0.00E+00	1.08E-08	1.08E-08	1.08E-08	1.01E-04	0.00E+00	4.05E-07	0.00E+00	1.08E-08	6.26E-06	0.00E+00	0.00E+00	1.01E-04
608	ALL		285550	4027350	NonCancer	0.00E+00	1.66E-07	0.00E+00	1.10E-08	1.10E-08	1.10E-08	1.04E-04	0.00E+00	4.14E-07	0.00E+00	1.10E-08	6.40E-06	0.00E+00	0.00E+00	1.04E-04
609	ALL		285650	4027350	NonCancer	0.00E+00	1.70E-07	0.00E+00	1.12E-08	1.12E-08	1.12E-08	1.06E-04	0.00E+00	4.23E-07	0.00E+00	1.12E-08	6.55E-06	0.00E+00	0.00E+00	1.06E-04
610	ALL		285750	4027350	NonCancer	0.00E+00	1.73E-07	0.00E+00	1.15E-08	1.15E-08	1.15E-08	1.07E-04	0.00E+00	4.32E-07	0.00E+00	1.15E-08	6.68E-06	0.00E+00	0.00E+00	1.07E-04
611	ALL		285850	4027350	NonCancer	0.00E+00	1.76E-07	0.00E+00	1.17E-08	1.17E-08	1.17E-08	1.07E-04	0.00E+00	4.40E-07	0.00E+00	1.17E-08	6.81E-06	0.00E+00	0.00E+00	1.07E-04
612	ALL		285950	4027350	NonCancer	0.00E+00	1.83E-07	0.00E+00	1.22E-08	1.22E-08	1.22E-08	1.06E-04	0.00E+00	4.58E-07	0.00E+00	1.22E-08	7.09E-06	0.00E+00	0.00E+00	1.06E-04
613	ALL		286050	4027350	NonCancer	0.00E+00	1.97E-07	0.00E+00	1.30E-08	1.30E-08	1.30E-08	1.05E-04	0.00E+00	4.91E-07	0.00E+00	1.30E-08	7.61E-06	0.00E+00	0.00E+00	1.05E-04
614	ALL		286150	4027350	NonCancer	0.00E+00	2.11E-07	0.00E+00	1.40E-08	1.40E-08	1.40E-08	1.03E-04	0.00E+00	5.27E-07	0.00E+00	1.40E-08	8.15E-06	0.00E+00	0.00E+00	1.03E-04
615	ALL		286250	4027350	NonCancer	0.00E+00	2.20E-07	0.00E+00	1.46E-08	1.46E-08	1.46E-08	1.00E-04	0.00E+00	5.51E-07	0.00E+00	1.46E-08	8.52E-06	0.00E+00	0.00E+00	1.00E-04
616	ALL		286350	4027350	NonCancer	0.00E+00	2.31E-07	0.00E+00	1.53E-08	1.53E-08	1.53E-08	9.70E-05	0.00E+00	5.77E-07	0.00E+00	1.53E-08	8.94E-06	0.00E+00	0.00E+00	9.70E-05
617	ALL		286450	4027350	NonCancer	0.00E+00	2.49E-07	0.00E+00	1.65E-08	1.65E-08	1.65E-08	9.33E-05	0.00E+00	6.22E-07	0.00E+00	1.65E-08	9.63E-06	0.00E+00	0.00E+00	9.33E-05
618	ALL		286550	4027350	NonCancer	0.00E+00	2.56E-07	0.00E+00	1.70E-08	1.70E-08	1.70E-08	8.98E-05	0.00E+00	6.39E-07	0.00E+00	1.70E-08	9.87E-06	0.00E+00	0.00E+00	8.98E-05
619	ALL		286650	4027350	NonCancer	0.00E+00	2.35E-07	0.00E+00	1.56E-08	1.56E-08	1.56E-08	8.61E-05	0.00E+00	5.86E-07	0.00E+00	1.56E-08	9.03E-06	0.00E+00	0.00E+00	8.61E-05
620	ALL		286750	4027350	NonCancer	0.00E+00	1.99E-07	0.00E+00	1.32E-08	1.32E-08	1.32E-08	8.26E-05	0.00E+00	4.95E-07	0.00E+00	1.32E-08	7.62E-06	0.00E+00	0.00E+00	8.26E-05
621	ALL		286850	4027350	NonCancer	0.00E+00	1.64E-07	0.00E+00	1.09E-08	1.09E-08	1.09E-08	7.95E-05	0.00E+00	4.10E-07	0.00E+00	1.09E-08	6.31E-06	0.00E+00	0.00E+00	7.95E-05
622	ALL		286950	4027350	NonCancer	0.00E+00	1.57E-07	0.00E+00	1.04E-08	1.04E-08	1.04E-08	7.68E-05	0.00E+00	3.91E-07	0.00E+00	1.04E-08	6.06E-06	0.00E+00	0.00E+00	7.68E-05
623	ALL		287050	4027350	NonCancer	0.00E+00	1.63E-07	0.00E+00	1.08E-08	1.08E-08	1.08E-08	7.48E-05	0.00E+00	4.06E-07	0.00E+00	1.08E-08	6.28E-06	0.00E+00	0.00E+00	7.48E-05
624	ALL		287150	4027350	NonCancer	0.00E+00	1.52E-07	0.00E+00	1.01E-08	1.01E-08	1.01E-08	7.37E-05	0.00E+00	3.80E-07	0.00E+00	1.01E-08	5.85E-06	0.00E+00	0.00E+00	7.37E-05
625	ALL		287250	4027350	NonCancer	0.00E+00	1.42E-07	0.00E+00	9.41E-09	9.41E-09	9.41E-09	7.41E-05	0.00E+00	3.54E-07	0.00E+00	9.41E-09	5.47E-06	0.00E+00	0.00E+00	7.41E-05
626	ALL		287350	4027350	NonCancer	0.00E+00	1.37E-07	0.00E+00	9.12E-09	9.12E-09	9.12E-09	7.68E-05	0.00E+00	3.43E-07	0.00E+00	9.12E-09	5.30E-06	0.00E+00	0.00E+00	7.68E-05
627	ALL		287450	4027350	NonCancer	0.00E+00	1.35E-07	0.00E+00	8.99E-09	8.99E-09	8.99E-09	8.51E-05	0.00E+00	3.38E-07	0.00E+00	8.99E-09	5.24E-06	0.00E+00	0.00E+00	8.51E-05
628	ALL		287650	4027350	NonCancer	0.00E+00	1.29E-07	0.00E+00	8.55E-09	8.55E-09	8.55E-09	1.08E-04	0.00E+00	3.22E-07	0.00E+00	8.55E-09	4.96E-06	0.00E+00	0.00E+00	1.08E-04
629	ALL		287750	4027350	NonCancer	0.00E+00	1.17E-07	0.00E+00	7.79E-09	7.79E-09	7.79E-09	7.68E-05	0.00E+00	2.93E-07	0.00E+00	7.79E-09	4.51E-06	0.00E+00	0.00E+00	7.68E-05
630	ALL		287850	4027350	NonCancer	0.00E+00	1.06E-07	0.00E+00	7.06E-09	7.06E-09	7.06E-09	5.93E-05	0.00E+00	2.66E-07	0.00E+00	7.06E-09	4.10E-06	0.00E+00	0.00E+00	5.93E-05
631	ALL		287950	4027350	NonCancer	0.00E+00	1.06E-07	0.00E+00	7.04E-09	7.04E-09	7.04E-09	4.81E-05	0.00E+00	2.65E-07	0.00E+00	7.04E-09	4.11E-06	0.00E+00	0.00E+00	4.81E-05
632	ALL		288050	4027350	NonCancer	0.00E+00	1.12E-07	0.00E+00	7.44E-09	7.44E-09	7.44E-09	4.06E-05	0.00E+00	2.80E-07	0.00E+00	7.44E-09	4.33E-06	0.00E+00	0.00E+00	4.06E-05
633	ALL		285350	4027450	NonCancer	0.00E+00	1.44E-07	0.00E+00	9.53E-09	9.53E-09	9.53E-09	8.78E-05	0.00E+00	3.59E-07	0.00E+00	9.53E-09	5.55E-06	0.00E+00	0.00E+00	8.78E-05
634	ALL		285450	4027450	NonCancer	0.00E+00	1.47E-07	0.00E+00	9.73E-09	9.73E-09	9.73E-09	9.01E-05	0.00E+00	3.66E-07	0.00E+00	9.73E-09	5.66E-06	0.00E+00	0.00E+00	9.01E-05
635	ALL		285550	4027450	NonCancer	0.00E+00	1.50E-07	0.00E+00	9.94E-09	9.94E-09	9.94E-09	9.16E-05	0.00E+00	3.74E-07	0.00E+00	9.94E-09	5.79E-06	0.00E+00	0.00E+00	9.16E-05
636	ALL		285650	4027450	NonCancer	0.00E+00	1.52E-07	0.00E+00	1.01E-08	1.01E-08	1.01E-08	9.22E-05	0.00E+00	3.81E-07	0.00E+00	1.01E-08	5.89E-06	0.00E+00	0.00E+00	9.22E-05

*HARP - HRACalc v22118 10/25/2023 9:20:21 AM - Chronic Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_CHIHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE1	ENDO	BLOOD	ODOR	GENERAL	MAXHI
637	ALL		285750	4027450	NonCancer	0.00E+00	1.55E-07	0.00E+00	1.03E-08	1.03E-08	1.03E-08	9.22E-05	0.00E+00	3.88E-07	0.00E+00	1.03E-08	6.00E-06	0.00E+00	0.00E+00	9.22E-05
638	ALL		285850	4027450	NonCancer	0.00E+00	1.62E-07	0.00E+00	1.08E-08	1.08E-08	1.08E-08	9.17E-05	0.00E+00	4.05E-07	0.00E+00	1.08E-08	6.26E-06	0.00E+00	0.00E+00	9.17E-05
639	ALL		285950	4027450	NonCancer	0.00E+00	1.74E-07	0.00E+00	1.15E-08	1.15E-08	1.15E-08	9.09E-05	0.00E+00	4.34E-07	0.00E+00	1.15E-08	6.71E-06	0.00E+00	0.00E+00	9.09E-05
640	ALL		286050	4027450	NonCancer	0.00E+00	1.85E-07	0.00E+00	1.23E-08	1.23E-08	1.23E-08	8.96E-05	0.00E+00	4.62E-07	0.00E+00	1.23E-08	7.15E-06	0.00E+00	0.00E+00	8.96E-05
641	ALL		286150	4027450	NonCancer	0.00E+00	1.93E-07	0.00E+00	1.28E-08	1.28E-08	1.28E-08	8.79E-05	0.00E+00	4.81E-07	0.00E+00	1.28E-08	7.44E-06	0.00E+00	0.00E+00	8.79E-05
642	ALL		286250	4027450	NonCancer	0.00E+00	2.00E-07	0.00E+00	1.33E-08	1.33E-08	1.33E-08	8.56E-05	0.00E+00	5.01E-07	0.00E+00	1.33E-08	7.75E-06	0.00E+00	0.00E+00	8.56E-05
643	ALL		286350	4027450	NonCancer	0.00E+00	2.15E-07	0.00E+00	1.42E-08	1.42E-08	1.42E-08	8.29E-05	0.00E+00	5.36E-07	0.00E+00	1.42E-08	8.30E-06	0.00E+00	0.00E+00	8.29E-05
644	ALL		286450	4027450	NonCancer	0.00E+00	2.25E-07	0.00E+00	1.49E-08	1.49E-08	1.49E-08	8.02E-05	0.00E+00	5.62E-07	0.00E+00	1.49E-08	8.68E-06	0.00E+00	0.00E+00	8.02E-05
645	ALL		286550	4027450	NonCancer	0.00E+00	2.15E-07	0.00E+00	1.43E-08	1.43E-08	1.43E-08	7.76E-05	0.00E+00	5.37E-07	0.00E+00	1.43E-08	8.28E-06	0.00E+00	0.00E+00	7.76E-05
646	ALL		286650	4027450	NonCancer	0.00E+00	1.88E-07	0.00E+00	1.25E-08	1.25E-08	1.25E-08	7.48E-05	0.00E+00	4.69E-07	0.00E+00	1.25E-08	7.23E-06	0.00E+00	0.00E+00	7.48E-05
647	ALL		286750	4027450	NonCancer	0.00E+00	1.58E-07	0.00E+00	1.05E-08	1.05E-08	1.05E-08	7.24E-05	0.00E+00	3.93E-07	0.00E+00	1.05E-08	6.05E-06	0.00E+00	0.00E+00	7.24E-05
648	ALL		286850	4027450	NonCancer	0.00E+00	1.37E-07	0.00E+00	9.08E-09	9.08E-09	9.08E-09	7.03E-05	0.00E+00	3.42E-07	0.00E+00	9.08E-09	5.28E-06	0.00E+00	0.00E+00	7.03E-05
649	ALL		286950	4027450	NonCancer	0.00E+00	1.39E-07	0.00E+00	9.22E-09	9.22E-09	9.22E-09	6.85E-05	0.00E+00	3.47E-07	0.00E+00	9.22E-09	5.38E-06	0.00E+00	0.00E+00	6.85E-05
650	ALL		287050	4027450	NonCancer	0.00E+00	1.42E-07	0.00E+00	9.39E-09	9.39E-09	9.39E-09	6.73E-05	0.00E+00	3.54E-07	0.00E+00	9.39E-09	5.45E-06	0.00E+00	0.00E+00	6.73E-05
651	ALL		287150	4027450	NonCancer	0.00E+00	1.30E-07	0.00E+00	8.65E-09	8.65E-09	8.65E-09	6.70E-05	0.00E+00	3.25E-07	0.00E+00	8.65E-09	5.02E-06	0.00E+00	0.00E+00	6.70E-05
652	ALL		287250	4027450	NonCancer	0.00E+00	1.23E-07	0.00E+00	8.17E-09	8.17E-09	8.17E-09	6.81E-05	0.00E+00	3.08E-07	0.00E+00	8.17E-09	4.75E-06	0.00E+00	0.00E+00	6.81E-05
653	ALL		287350	4027450	NonCancer	0.00E+00	1.20E-07	0.00E+00	7.95E-09	7.95E-09	7.95E-09	7.14E-05	0.00E+00	2.99E-07	0.00E+00	7.95E-09	4.62E-06	0.00E+00	0.00E+00	7.14E-05
654	ALL		287450	4027450	NonCancer	0.00E+00	1.18E-07	0.00E+00	7.83E-09	7.83E-09	7.83E-09	7.99E-05	0.00E+00	2.95E-07	0.00E+00	7.83E-09	4.56E-06	0.00E+00	0.00E+00	7.99E-05
655	ALL		285450	4027550	NonCancer	0.00E+00	1.34E-07	0.00E+00	8.86E-09	8.86E-09	8.86E-09	8.04E-05	0.00E+00	3.34E-07	0.00E+00	8.86E-09	5.16E-06	0.00E+00	0.00E+00	8.04E-05
656	ALL		285550	4027550	NonCancer	0.00E+00	1.35E-07	0.00E+00	8.99E-09	8.99E-09	8.99E-09	8.10E-05	0.00E+00	3.38E-07	0.00E+00	8.99E-09	5.23E-06	0.00E+00	0.00E+00	8.10E-05
657	ALL		285650	4027550	NonCancer	0.00E+00	1.38E-07	0.00E+00	9.17E-09	9.17E-09	9.17E-09	8.10E-05	0.00E+00	3.45E-07	0.00E+00	9.17E-09	5.34E-06	0.00E+00	0.00E+00	8.10E-05
658	ALL		285750	4027550	NonCancer	0.00E+00	1.45E-07	0.00E+00	9.60E-09	9.60E-09	9.60E-09	8.07E-05	0.00E+00	3.62E-07	0.00E+00	9.60E-09	5.59E-06	0.00E+00	0.00E+00	8.07E-05
659	ALL		285850	4027550	NonCancer	0.00E+00	1.55E-07	0.00E+00	1.03E-08	1.03E-08	1.03E-08	8.00E-05	0.00E+00	3.86E-07	0.00E+00	1.03E-08	5.97E-06	0.00E+00	0.00E+00	8.00E-05
660	ALL		285950	4027550	NonCancer	0.00E+00	1.64E-07	0.00E+00	1.09E-08	1.09E-08	1.09E-08	7.90E-05	0.00E+00	4.10E-07	0.00E+00	1.09E-08	6.34E-06	0.00E+00	0.00E+00	7.90E-05
661	ALL		286050	4027550	NonCancer	0.00E+00	1.70E-07	0.00E+00	1.13E-08	1.13E-08	1.13E-08	7.78E-05	0.00E+00	4.25E-07	0.00E+00	1.13E-08	6.57E-06	0.00E+00	0.00E+00	7.78E-05
662	ALL		286150	4027550	NonCancer	0.00E+00	1.76E-07	0.00E+00	1.17E-08	1.17E-08	1.17E-08	7.62E-05	0.00E+00	4.39E-07	0.00E+00	1.17E-08	6.80E-06	0.00E+00	0.00E+00	7.62E-05
663	ALL		286250	4027550	NonCancer	0.00E+00	1.87E-07	0.00E+00	1.24E-08	1.24E-08	1.24E-08	7.41E-05	0.00E+00	4.67E-07	0.00E+00	1.24E-08	7.24E-06	0.00E+00	0.00E+00	7.41E-05
664	ALL		286350	4027550	NonCancer	0.00E+00	1.98E-07	0.00E+00	1.31E-08	1.31E-08	1.31E-08	7.20E-05	0.00E+00	4.95E-07	0.00E+00	1.31E-08	7.65E-06	0.00E+00	0.00E+00	7.20E-05
665	ALL		286450	4027550	NonCancer	0.00E+00	1.96E-07	0.00E+00	1.30E-08	1.30E-08	1.30E-08	6.99E-05	0.00E+00	4.89E-07	0.00E+00	1.30E-08	7.54E-06	0.00E+00	0.00E+00	6.99E-05
666	ALL		286550	4027550	NonCancer	0.00E+00	1.77E-07	0.00E+00	1.17E-08	1.17E-08	1.17E-08	6.79E-05	0.00E+00	4.41E-07	0.00E+00	1.17E-08	6.80E-06	0.00E+00	0.00E+00	6.79E-05
667	ALL		286650	4027550	NonCancer	0.00E+00	1.52E-07	0.00E+00	1.01E-08	1.01E-08	1.01E-08	6.59E-05	0.00E+00	3.80E-07	0.00E+00	1.01E-08	5.85E-06	0.00E+00	0.00E+00	6.59E-05
668	ALL		286750	4027550	NonCancer	0.00E+00	1.28E-07	0.00E+00	8.50E-09	8.50E-09	8.50E-09	6.42E-05	0.00E+00	3.20E-07	0.00E+00	8.50E-09	4.92E-06	0.00E+00	0.00E+00	6.42E-05
669	ALL		286850	4027550	NonCancer	0.00E+00	1.20E-07	0.00E+00	7.96E-09	7.96E-09	7.96E-09	6.28E-05	0.00E+00	3.00E-07	0.00E+00	7.96E-09	4.64E-06	0.00E+00	0.00E+00	6.28E-05
670	ALL		286950	4027550	NonCancer	0.00E+00	1.25E-07	0.00E+00	8.28E-09	8.28E-09	8.28E-09	6.18E-05	0.00E+00	3.12E-07	0.00E+00	8.28E-09	4.82E-06	0.00E+00	0.00E+00	6.18E-05
671	ALL		287050	4027550	NonCancer	0.00E+00	1.23E-07	0.00E+00	8.19E-09	8.19E-09	8.19E-09	6.12E-05	0.00E+00	3.08E-07	0.00E+00	8.19E-09	4.75E-06	0.00E+00	0.00E+00	6.12E-05
672	ALL		287150	4027550	NonCancer	0.00E+00	1.13E-07	0.00E+00	7.52E-09	7.52E-09	7.52E-09	6.14E-05	0.00E+00	2.83E-07	0.00E+00	7.52E-09	4.37E-06	0.00E+00	0.00E+00	6.14E-05
673	ALL		287250	4027550	NonCancer	0.00E+00	1.08E-07	0.00E+00	7.19E-09	7.19E-09	7.19E-09	6.30E-05	0.00E+00	2.70E-07	0.00E+00	7.19E-09	4.18E-06	0.00E+00	0.00E+00	6.30E-05
674	ALL		287350	4027550	NonCancer	0.00E+00	1.06E-07	0.00E+00	7.01E-09	7.01E-09	7.01E-09	6.65E-05	0.00E+00	2.64E-07	0.00E+00	7.01E-09	4.07E-06	0.00E+00	0.00E+00	6.65E-05
675	ALL		287450	4027550	NonCancer	0.00E+00	1.04E-07	0.00E+00	6.90E-09	6.90E-09	6.90E-09	7.49E-05	0.00E+00	2.60E-07	0.00E+00	6.90E-09	4.02E-06	0.00E+00	0.00E+00	7.49E-05
676	ALL		285650	4027650	NonCancer	0.00E+00	1.30E-07	0.00E+00	8.64E-09	8.64E-09	8.64E-09	7.18E-05	0.00E+00	3.25E-07	0.00E+00	8.64E-09	5.03E-06	0.00E+00	0.00E+00	7.18E-05
677	ALL		285750	4027650	NonCancer	0.00E+00	1.39E-07	0.00E+00	9.21E-09	9.21E-09	9.21E-09	7.14E-05	0.00E+00	3.47E-07	0.00E+00	9.21E-09	5.36E-06	0.00E+00	0.00E+00	7.14E-05
678	ALL		285850	4027650	NonCancer	0.00E+00	1.47E-07	0.00E+00	9.73E-09	9.73E-09	9.73E-09	7.05E-05	0.00E+00	3.66E-07	0.00E+00	9.73E-09	5.66E-06	0.00E+00	0.00E+00	7.05E-05
679	ALL		285950	4027650	NonCancer	0.00E+00	1.52E-07	0.00E+00	1.01E-08	1.01E-08	1.01E-08	6.95E-05	0.00E+00	3.79E-07	0.00E+00	1.01E-08	5.85E-06	0.00E+00	0.00E+00	6.95E-05
680	ALL		286050	4027650	NonCancer	0.00E+00	1.56E-07	0.00E+00	1.03E-08	1.03E-08	1.03E-08	6.82E-05	0.00E+00	3.90E-07	0.00E+00	1.03E-08	6.03E-06	0.00E+00	0.00E+00	6.82E-05
681	ALL		286150	4027650	NonCancer	0.00E+00	1.65E-07	0.00E+00	1.09E-08	1.09E-08	1.09E-08	6.67E-05	0.00E+00	4.12E-07	0.00E+00	1.09E-08	6.37E-06	0.00E+00	0.00E+00	6.67E-05
682	ALL		286250	4027650	NonCancer	0.00E+00	1.75E-07	0.00E+00	1.16E-08	1.16E-08	1.16E-08	6.50E-05	0.00E+00	4.38E-07	0.00E+00	1.16E-08	6.77E-06	0.00E+00	0.00E+00	6.50E-05
683	ALL		286350	4027650	NonCancer	0.00E+00	1.77E-07	0.00E+00	1.18E-08	1.18E-08	1.18E-08	6.33E-05	0.00E+00	4.43E-07	0.00E+00	1.18E-08	6.84E-06	0.00E+00	0.00E+00	6.33E-05
684	ALL		286450	4027650	NonCancer	0.00E+00	1.66E-07	0.00E+00	1.10E-08	1.10E-08	1.10E-08	6.16E-05	0.00E+00	4.13E-07	0.00E+00	1.10E-08	6.37E-06	0.00E+00	0.00E+00	6.16E-05
685	ALL		286550	4027650	NonCancer	0.00E+00	1.46E-07	0.00E+00	9.67E-09	9.67E-09	9.67E-09	6.00E-05	0.00E+00	3.64E-07	0.00E+00	9.67E-09	5.60E-06	0.00E+00	0.00E+00	6.00E-05
686	ALL		286650	4027650	NonCancer	0.00E+00	1.25E-07	0.00E+00	8.27E-09	8.27E-09	8.27E-09	5.86E-05	0.00E+00	3.11E-07	0.00E+00	8.27E-09	4.79E-06	0.00E+00	0.00E+00	5.86E-05
687	ALL		286750	4027650	NonCancer	0.00E+00	1.09E-07	0.00E+00	7.20E-09	7.20E-09	7.20E-09	5.74E-05	0.00E+00	2.71E-07	0.00E+00	7.20E-09	4.18E-06	0.00E+00	0.00E+00	5.74E-05
688	ALL		286850	4027650	NonCancer	0.00E+00	1.08E-07	0.00E+00	7.17E-09	7.17E-09	7.17E-09	5.65E-05	0.00E+00	2.70E-07	0.00E+00	7.17E-09	4.18E-06	0.00E+00	0.00E+00	5.65E-05
689	ALL		286950	4027650	NonCancer	0.00E+00	1.12E-07	0.00E+00	7.46E-09	7.46E-09	7.46E-09	5.59E-05	0.00E+00	2.81E-07	0.00E+00	7.46E-09	4.34E-06	0.00E+00	0.00E+00	5.59E-05

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		287571.6	4026060	NonCancer	0.00E+00	1.60E-03	6.46E-02	0.00E+00	0.00E+00	6.46E-02	1.60E-03	0.00E+00	1.60E-03	0.00E+00	0.00E+00	6.46E-02	0.00E+00	0.00E+00	6.46E-02
2	ALL		287591.3	4026058	NonCancer	0.00E+00	1.43E-03	5.80E-02	0.00E+00	0.00E+00	5.80E-02	1.43E-03	0.00E+00	1.43E-03	0.00E+00	0.00E+00	5.80E-02	0.00E+00	0.00E+00	5.80E-02
3	ALL		287608.8	4026060	NonCancer	0.00E+00	1.31E-03	5.32E-02	0.00E+00	0.00E+00	5.32E-02	1.31E-03	0.00E+00	1.31E-03	0.00E+00	0.00E+00	5.32E-02	0.00E+00	0.00E+00	5.32E-02
4	ALL		287627.5	4026058	NonCancer	0.00E+00	1.20E-03	4.87E-02	0.00E+00	0.00E+00	4.87E-02	1.20E-03	0.00E+00	1.20E-03	0.00E+00	0.00E+00	4.87E-02	0.00E+00	0.00E+00	4.87E-02
5	ALL		287645	4026059	NonCancer	0.00E+00	1.11E-03	4.51E-02	0.00E+00	0.00E+00	4.51E-02	1.11E-03	0.00E+00	1.11E-03	0.00E+00	0.00E+00	4.51E-02	0.00E+00	0.00E+00	4.51E-02
6	ALL		287668.8	4026058	NonCancer	0.00E+00	9.99E-04	4.07E-02	0.00E+00	0.00E+00	4.07E-02	9.99E-04	0.00E+00	9.99E-04	0.00E+00	0.00E+00	4.07E-02	0.00E+00	0.00E+00	4.07E-02
7	ALL		287685.4	4026045	NonCancer	0.00E+00	9.20E-04	3.76E-02	0.00E+00	0.00E+00	3.76E-02	9.20E-04	0.00E+00	9.20E-04	0.00E+00	0.00E+00	3.76E-02	0.00E+00	0.00E+00	3.76E-02
8	ALL		287707.1	4026046	NonCancer	0.00E+00	8.49E-04	3.46E-02	0.00E+00	0.00E+00	3.46E-02	8.49E-04	0.00E+00	8.49E-04	0.00E+00	0.00E+00	3.46E-02	0.00E+00	0.00E+00	3.46E-02
9	ALL		287727.8	4026047	NonCancer	0.00E+00	7.89E-04	3.22E-02	0.00E+00	0.00E+00	3.22E-02	7.89E-04	0.00E+00	7.89E-04	0.00E+00	0.00E+00	3.22E-02	0.00E+00	0.00E+00	3.22E-02
10	ALL		287768.1	4026043	NonCancer	0.00E+00	6.86E-04	2.81E-02	0.00E+00	0.00E+00	2.81E-02	6.86E-04	0.00E+00	6.86E-04	0.00E+00	0.00E+00	2.81E-02	0.00E+00	0.00E+00	2.81E-02
11	ALL		287785.7	4026043	NonCancer	0.00E+00	6.47E-04	2.65E-02	0.00E+00	0.00E+00	2.65E-02	6.47E-04	0.00E+00	6.47E-04	0.00E+00	0.00E+00	2.65E-02	0.00E+00	0.00E+00	2.65E-02
12	ALL		287812.6	4026043	NonCancer	0.00E+00	5.97E-04	2.45E-02	0.00E+00	0.00E+00	2.45E-02	5.97E-04	0.00E+00	5.97E-04	0.00E+00	0.00E+00	2.45E-02	0.00E+00	0.00E+00	2.45E-02
13	ALL		287832.2	4026044	NonCancer	0.00E+00	5.66E-04	2.32E-02	0.00E+00	0.00E+00	2.32E-02	5.66E-04	0.00E+00	5.66E-04	0.00E+00	0.00E+00	2.32E-02	0.00E+00	0.00E+00	2.32E-02
14	ALL		287878.7	4026049	NonCancer	0.00E+00	4.99E-04	2.05E-02	0.00E+00	0.00E+00	2.05E-02	4.99E-04	0.00E+00	4.99E-04	0.00E+00	0.00E+00	2.05E-02	0.00E+00	0.00E+00	2.05E-02
15	ALL		287895.3	4026055	NonCancer	0.00E+00	4.79E-04	1.97E-02	0.00E+00	0.00E+00	1.97E-02	4.79E-04	0.00E+00	4.79E-04	0.00E+00	0.00E+00	1.97E-02	0.00E+00	0.00E+00	1.97E-02
16	ALL		287914.9	4026048	NonCancer	0.00E+00	4.56E-04	1.87E-02	0.00E+00	0.00E+00	1.87E-02	4.56E-04	0.00E+00	4.56E-04	0.00E+00	0.00E+00	1.87E-02	0.00E+00	0.00E+00	1.87E-02
17	ALL		287571.6	4026021	NonCancer	0.00E+00	1.53E-03	6.17E-02	0.00E+00	0.00E+00	6.17E-02	1.53E-03	0.00E+00	1.53E-03	0.00E+00	0.00E+00	6.17E-02	0.00E+00	0.00E+00	6.17E-02
18	ALL		287572.6	4026000	NonCancer	0.00E+00	1.42E-03	5.74E-02	0.00E+00	0.00E+00	5.74E-02	1.42E-03	0.00E+00	1.42E-03	0.00E+00	0.00E+00	5.74E-02	0.00E+00	0.00E+00	5.74E-02
19	ALL		287570.6	4025981	NonCancer	0.00E+00	1.35E-03	5.48E-02	0.00E+00	0.00E+00	5.48E-02	1.35E-03	0.00E+00	1.35E-03	0.00E+00	0.00E+00	5.48E-02	0.00E+00	0.00E+00	5.48E-02
20	ALL		287569.5	4025963	NonCancer	0.00E+00	1.28E-03	5.18E-02	0.00E+00	0.00E+00	5.18E-02	1.28E-03	0.00E+00	1.28E-03	0.00E+00	0.00E+00	5.18E-02	0.00E+00	0.00E+00	5.18E-02
21	ALL		287566.4	4025940	NonCancer	0.00E+00	1.19E-03	4.85E-02	0.00E+00	0.00E+00	4.85E-02	1.19E-03	0.00E+00	1.19E-03	0.00E+00	0.00E+00	4.85E-02	0.00E+00	0.00E+00	4.85E-02
22	ALL		287601.6	4026020	NonCancer	0.00E+00	1.28E-03	5.18E-02	0.00E+00	0.00E+00	5.18E-02	1.28E-03	0.00E+00	1.28E-03	0.00E+00	0.00E+00	5.18E-02	0.00E+00	0.00E+00	5.18E-02
23	ALL		287622.3	4026024	NonCancer	0.00E+00	1.15E-03	4.68E-02	0.00E+00	0.00E+00	4.68E-02	1.15E-03	0.00E+00	1.15E-03	0.00E+00	0.00E+00	4.68E-02	0.00E+00	0.00E+00	4.68E-02
24	ALL		287639.9	4026024	NonCancer	0.00E+00	1.07E-03	4.34E-02	0.00E+00	0.00E+00	4.34E-02	1.07E-03	0.00E+00	1.07E-03	0.00E+00	0.00E+00	4.34E-02	0.00E+00	0.00E+00	4.34E-02
25	ALL		287659.5	4026026	NonCancer	0.00E+00	9.89E-04	4.03E-02	0.00E+00	0.00E+00	4.03E-02	9.89E-04	0.00E+00	9.89E-04	0.00E+00	0.00E+00	4.03E-02	0.00E+00	0.00E+00	4.03E-02
26	ALL		287607.8	4025998	NonCancer	0.00E+00	1.22E-03	4.96E-02	0.00E+00	0.00E+00	4.96E-02	1.22E-03	0.00E+00	1.22E-03	0.00E+00	0.00E+00	4.96E-02	0.00E+00	0.00E+00	4.96E-02
27	ALL		287604.7	4025982	NonCancer	0.00E+00	1.18E-03	4.81E-02	0.00E+00	0.00E+00	4.81E-02	1.18E-03	0.00E+00	1.18E-03	0.00E+00	0.00E+00	4.81E-02	0.00E+00	0.00E+00	4.81E-02
28	ALL		287632.6	4025979	NonCancer	0.00E+00	1.06E-03	4.32E-02	0.00E+00	0.00E+00	4.32E-02	1.06E-03	0.00E+00	1.06E-03	0.00E+00	0.00E+00	4.32E-02	0.00E+00	0.00E+00	4.32E-02
29	ALL		287653.3	4025981	NonCancer	0.00E+00	9.89E-04	4.03E-02	0.00E+00	0.00E+00	4.03E-02	9.89E-04	0.00E+00	9.89E-04	0.00E+00	0.00E+00	4.03E-02	0.00E+00	0.00E+00	4.03E-02
30	ALL		287626.4	4025947	NonCancer	0.00E+00	1.00E-03	4.08E-02	0.00E+00	0.00E+00	4.08E-02	1.00E-03	0.00E+00	1.00E-03	0.00E+00	0.00E+00	4.08E-02	0.00E+00	0.00E+00	4.08E-02
31	ALL		287661.6	4025946	NonCancer	0.00E+00	8.94E-04	3.65E-02	0.00E+00	0.00E+00	3.65E-02	8.94E-04	0.00E+00	8.94E-04	0.00E+00	0.00E+00	3.65E-02	0.00E+00	0.00E+00	3.65E-02
32	ALL		287685.4	4025990	NonCancer	0.00E+00	8.49E-04	3.46E-02	0.00E+00	0.00E+00	3.46E-02	8.49E-04	0.00E+00	8.49E-04	0.00E+00	0.00E+00	3.46E-02	0.00E+00	0.00E+00	3.46E-02
33	ALL		287702.9	4025987	NonCancer	0.00E+00	7.93E-04	3.24E-02	0.00E+00	0.00E+00	3.24E-02	7.93E-04	0.00E+00	7.93E-04	0.00E+00	0.00E+00	3.24E-02	0.00E+00	0.00E+00	3.24E-02
34	ALL		287725.7	4025989	NonCancer	0.00E+00	7.41E-04	3.03E-02	0.00E+00	0.00E+00	3.03E-02	7.41E-04	0.00E+00	7.41E-04	0.00E+00	0.00E+00	3.03E-02	0.00E+00	0.00E+00	3.03E-02
35	ALL		287746.4	4025988	NonCancer	0.00E+00	6.93E-04	2.83E-02	0.00E+00	0.00E+00	2.83E-02	6.93E-04	0.00E+00	6.93E-04	0.00E+00	0.00E+00	2.83E-02	0.00E+00	0.00E+00	2.83E-02
36	ALL		287763.9	4025985	NonCancer	0.00E+00	6.56E-04	2.68E-02	0.00E+00	0.00E+00	2.68E-02	6.56E-04	0.00E+00	6.56E-04	0.00E+00	0.00E+00	2.68E-02	0.00E+00	0.00E+00	2.68E-02
37	ALL		287772.2	4025953	NonCancer	0.00E+00	6.13E-04	2.51E-02	0.00E+00	0.00E+00	2.51E-02	6.13E-04	0.00E+00	6.13E-04	0.00E+00	0.00E+00	2.51E-02	0.00E+00	0.00E+00	2.51E-02
38	ALL		287726.7	4025951	NonCancer	0.00E+00	7.10E-04	2.91E-02	0.00E+00	0.00E+00	2.91E-02	7.10E-04	0.00E+00	7.10E-04	0.00E+00	0.00E+00	2.91E-02	0.00E+00	0.00E+00	2.91E-02
39	ALL		287704	4025953	NonCancer	0.00E+00	7.96E-04	3.25E-02	0.00E+00	0.00E+00	3.25E-02	7.96E-04	0.00E+00	7.96E-04	0.00E+00	0.00E+00	3.25E-02	0.00E+00	0.00E+00	3.25E-02
40	ALL		287683.3	4025955	NonCancer	0.00E+00	8.50E-04	3.47E-02	0.00E+00	0.00E+00	3.47E-02	8.50E-04	0.00E+00	8.50E-04	0.00E+00	0.00E+00	3.47E-02	0.00E+00	0.00E+00	3.47E-02
41	ALL		287575.7	4025898	NonCancer	0.00E+00	1.01E-03	4.13E-02	0.00E+00	0.00E+00	4.13E-02	1.01E-03	0.00E+00	1.01E-03	0.00E+00	0.00E+00	4.13E-02	0.00E+00	0.00E+00	4.13E-02
42	ALL		287578.9	4025876	NonCancer	0.00E+00	9.31E-04	3.81E-02	0.00E+00	0.00E+00	3.81E-02	9.31E-04	0.00E+00	9.31E-04	0.00E+00	0.00E+00	3.81E-02	0.00E+00	0.00E+00	3.81E-02
43	ALL		287578.9	4025852	NonCancer	0.00E+00	8.69E-04	3.56E-02	0.00E+00	0.00E+00	3.56E-02	8.69E-04	0.00E+00	8.69E-04	0.00E+00	0.00E+00	3.56E-02	0.00E+00	0.00E+00	3.56E-02
44	ALL		287577.8	4025828	NonCancer	0.00E+00	8.10E-04	3.32E-02	0.00E+00	0.00E+00	3.32E-02	8.10E-04	0.00E+00	8.10E-04	0.00E+00	0.00E+00	3.32E-02	0.00E+00	0.00E+00	3.32E-02
45	ALL		287584	4025805	NonCancer	0.00E+00	7.48E-04	3.05E-02	0.00E+00	0.00E+00	3.05E-02	7.48E-04	0.00E+00	7.48E-04	0.00E+00	0.00E+00	3.05E-02	0.00E+00	0.00E+00	3.05E-02
46	ALL		287622.3	4025810	NonCancer	0.00E+00	7.08E-04	2.89E-02	0.00E+00	0.00E+00	2.89E-02	7.08E-04	0.00E+00	7.08E-04	0.00E+00	0.00E+00	2.89E-02	0.00E+00	0.00E+00	2.89E-02
47	ALL		287627.5	4025851	NonCancer	0.00E+00	7.78E-04	3.18E-02	0.00E+00	0.00E+00	3.18E-02	7.78E-04	0.00E+00	7.78E-04	0.00E+00	0.00E+00	3.18E-02	0.00E+00	0.00E+00	3.18E-02
48	ALL		287626.4	4025873	NonCancer	0.00E+00	8.24E-04	3.36E-02	0.00E+00	0.00E+00	3.36E-02	8.24E-04	0.00E+00	8.24E-04	0.00E+00	0.00E+00	3.36E-02	0.00E+00	0.00E+00	3.36E-02
49	ALL		287635.7	4025897	NonCancer	0.00E+00	8.62E-04	3.52E-02	0.00E+00	0.00E+00	3.52E-02	8.62E-04	0.00E+00	8.62E-04	0.00E+00	0.00E+00	3.52E-02	0.00E+00	0.00E+00	3.52E-02
50	ALL		287664.7	4025897	NonCancer	0.00E+00	7.95E-04	3.24E-02	0.00E+00	0.00E+00	3.24E-02	7.95E-04	0.00E+00	7.95E-04	0.00E+00	0.00E+00	3.24E-02	0.00E+00	0.00E+00	3.24E-02
51	ALL		287689.5	4025901	NonCancer	0.00E+00	7.49E-04	3.05E-02	0.00E+00	0.00E+00	3.05E-02	7.49E-04	0.00E+00	7.49E-04	0.00E+00	0.00E+00	3.05E-02	0.00E+00	0.00E+00	3.05E-02
52	ALL		287709.1	4025893	NonCancer	0.00E+00	6.90E-04	2.84E-02	0.00E+00	0.00E+00	2.84E-02	6.90E-04	0.00E+00	6.90E-04	0.00E+00	0.00E+00	2.84E-02	0.00E+00	0.00E+00	2.84E-02
53	ALL		287727.8	4025897	NonCancer	0.00E+00	6.74E-04	2.75E-02	0.00E+00	0.00E+00	2.75E-02	6.74E-04	0.00E+00	6.74E-04	0.00E+00	0.00E+00	2.75E-02	0.00E+00	0.00E+00	2.75E-02

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
54	ALL		287752.6	4025892	NonCancer	0.00E+00	6.28E-04	2.57E-02	0.00E+00	0.00E+00	2.57E-02	6.28E-04	0.00E+00	6.28E-04	0.00E+00	0.00E+00	2.57E-02	0.00E+00	0.00E+00	2.57E-02
55	ALL		287772.2	4025896	NonCancer	0.00E+00	6.04E-04	2.47E-02	0.00E+00	0.00E+00	2.47E-02	6.04E-04	0.00E+00	6.04E-04	0.00E+00	0.00E+00	2.47E-02	0.00E+00	0.00E+00	2.47E-02
56	ALL		287798.1	4025899	NonCancer	0.00E+00	5.69E-04	2.33E-02	0.00E+00	0.00E+00	2.33E-02	5.69E-04	0.00E+00	5.69E-04	0.00E+00	0.00E+00	2.33E-02	0.00E+00	0.00E+00	2.33E-02
57	ALL		287817.7	4025897	NonCancer	0.00E+00	5.29E-04	2.17E-02	0.00E+00	0.00E+00	2.17E-02	5.29E-04	0.00E+00	5.29E-04	0.00E+00	0.00E+00	2.17E-02	0.00E+00	0.00E+00	2.17E-02
58	ALL		287837.4	4025899	NonCancer	0.00E+00	4.87E-04	2.00E-02	0.00E+00	0.00E+00	2.00E-02	4.87E-04	0.00E+00	4.87E-04	0.00E+00	0.00E+00	2.00E-02	0.00E+00	0.00E+00	2.00E-02
59	ALL		287857	4025899	NonCancer	0.00E+00	4.67E-04	1.91E-02	0.00E+00	0.00E+00	1.91E-02	4.67E-04	0.00E+00	4.67E-04	0.00E+00	0.00E+00	1.91E-02	0.00E+00	0.00E+00	1.91E-02
60	ALL		287881.8	4025891	NonCancer	0.00E+00	4.35E-04	1.79E-02	0.00E+00	0.00E+00	1.79E-02	4.35E-04	0.00E+00	4.35E-04	0.00E+00	0.00E+00	1.79E-02	0.00E+00	0.00E+00	1.79E-02
61	ALL		287904.6	4025893	NonCancer	0.00E+00	4.17E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	4.17E-04	0.00E+00	4.17E-04	0.00E+00	0.00E+00	1.71E-02	0.00E+00	0.00E+00	1.71E-02
62	ALL		287923.2	4025893	NonCancer	0.00E+00	4.00E-04	1.64E-02	0.00E+00	0.00E+00	1.64E-02	4.00E-04	0.00E+00	4.00E-04	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00	1.64E-02
63	ALL		287921.1	4025948	NonCancer	0.00E+00	4.21E-04	1.73E-02	0.00E+00	0.00E+00	1.73E-02	4.21E-04	0.00E+00	4.21E-04	0.00E+00	0.00E+00	1.73E-02	0.00E+00	0.00E+00	1.73E-02
64	ALL		287895.3	4025950	NonCancer	0.00E+00	4.47E-04	1.84E-02	0.00E+00	0.00E+00	1.84E-02	4.47E-04	0.00E+00	4.47E-04	0.00E+00	0.00E+00	1.84E-02	0.00E+00	0.00E+00	1.84E-02
65	ALL		287878.7	4025944	NonCancer	0.00E+00	4.63E-04	1.90E-02	0.00E+00	0.00E+00	1.90E-02	4.63E-04	0.00E+00	4.63E-04	0.00E+00	0.00E+00	1.90E-02	0.00E+00	0.00E+00	1.90E-02
66	ALL		287856	4025943	NonCancer	0.00E+00	4.89E-04	2.01E-02	0.00E+00	0.00E+00	2.01E-02	4.89E-04	0.00E+00	4.89E-04	0.00E+00	0.00E+00	2.01E-02	0.00E+00	0.00E+00	2.01E-02
67	ALL		287837.4	4025946	NonCancer	0.00E+00	5.14E-04	2.11E-02	0.00E+00	0.00E+00	2.11E-02	5.14E-04	0.00E+00	5.14E-04	0.00E+00	0.00E+00	2.11E-02	0.00E+00	0.00E+00	2.11E-02
68	ALL		287810.5	4025948	NonCancer	0.00E+00	5.51E-04	2.26E-02	0.00E+00	0.00E+00	2.26E-02	5.51E-04	0.00E+00	5.51E-04	0.00E+00	0.00E+00	2.26E-02	0.00E+00	0.00E+00	2.26E-02
69	ALL		287812.6	4025992	NonCancer	0.00E+00	5.75E-04	2.35E-02	0.00E+00	0.00E+00	2.35E-02	5.75E-04	0.00E+00	5.75E-04	0.00E+00	0.00E+00	2.35E-02	0.00E+00	0.00E+00	2.35E-02
70	ALL		287833.2	4025991	NonCancer	0.00E+00	5.43E-04	2.22E-02	0.00E+00	0.00E+00	2.22E-02	5.43E-04	0.00E+00	5.43E-04	0.00E+00	0.00E+00	2.22E-02	0.00E+00	0.00E+00	2.22E-02
71	ALL		287852.9	4025990	NonCancer	0.00E+00	5.16E-04	2.12E-02	0.00E+00	0.00E+00	2.12E-02	5.16E-04	0.00E+00	5.16E-04	0.00E+00	0.00E+00	2.12E-02	0.00E+00	0.00E+00	2.12E-02
72	ALL		287876.7	4025988	NonCancer	0.00E+00	4.85E-04	1.99E-02	0.00E+00	0.00E+00	1.99E-02	4.85E-04	0.00E+00	4.85E-04	0.00E+00	0.00E+00	1.99E-02	0.00E+00	0.00E+00	1.99E-02
73	ALL		287891.1	4025986	NonCancer	0.00E+00	4.68E-04	1.92E-02	0.00E+00	0.00E+00	1.92E-02	4.68E-04	0.00E+00	4.68E-04	0.00E+00	0.00E+00	1.92E-02	0.00E+00	0.00E+00	1.92E-02
74	ALL		287917	4025991	NonCancer	0.00E+00	4.39E-04	1.80E-02	0.00E+00	0.00E+00	1.80E-02	4.39E-04	0.00E+00	4.39E-04	0.00E+00	0.00E+00	1.80E-02	0.00E+00	0.00E+00	1.80E-02
75	ALL		287644	4025808	NonCancer	0.00E+00	6.75E-04	2.76E-02	0.00E+00	0.00E+00	2.76E-02	6.75E-04	0.00E+00	6.75E-04	0.00E+00	0.00E+00	2.76E-02	0.00E+00	0.00E+00	2.76E-02
76	ALL		287664.7	4025808	NonCancer	0.00E+00	6.47E-04	2.65E-02	0.00E+00	0.00E+00	2.65E-02	6.47E-04	0.00E+00	6.47E-04	0.00E+00	0.00E+00	2.65E-02	0.00E+00	0.00E+00	2.65E-02
77	ALL		287692.6	4025809	NonCancer	0.00E+00	6.13E-04	2.51E-02	0.00E+00	0.00E+00	2.51E-02	6.13E-04	0.00E+00	6.13E-04	0.00E+00	0.00E+00	2.51E-02	0.00E+00	0.00E+00	2.51E-02
78	ALL		287709.1	4025815	NonCancer	0.00E+00	6.02E-04	2.47E-02	0.00E+00	0.00E+00	2.47E-02	6.02E-04	0.00E+00	6.02E-04	0.00E+00	0.00E+00	2.47E-02	0.00E+00	0.00E+00	2.47E-02
79	ALL		287729.8	4025813	NonCancer	0.00E+00	5.74E-04	2.35E-02	0.00E+00	0.00E+00	2.35E-02	5.74E-04	0.00E+00	5.74E-04	0.00E+00	0.00E+00	2.35E-02	0.00E+00	0.00E+00	2.35E-02
80	ALL		287751.5	4025810	NonCancer	0.00E+00	5.48E-04	2.25E-02	0.00E+00	0.00E+00	2.25E-02	5.48E-04	0.00E+00	5.48E-04	0.00E+00	0.00E+00	2.25E-02	0.00E+00	0.00E+00	2.25E-02
81	ALL		287771.2	4025808	NonCancer	0.00E+00	5.21E-04	2.14E-02	0.00E+00	0.00E+00	2.14E-02	5.21E-04	0.00E+00	5.21E-04	0.00E+00	0.00E+00	2.14E-02	0.00E+00	0.00E+00	2.14E-02
82	ALL		287790.8	4025812	NonCancer	0.00E+00	5.07E-04	2.08E-02	0.00E+00	0.00E+00	2.08E-02	5.07E-04	0.00E+00	5.07E-04	0.00E+00	0.00E+00	2.08E-02	0.00E+00	0.00E+00	2.08E-02
83	ALL		287816.7	4025806	NonCancer	0.00E+00	4.73E-04	1.94E-02	0.00E+00	0.00E+00	1.94E-02	4.73E-04	0.00E+00	4.73E-04	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00	1.94E-02
84	ALL		287838.4	4025813	NonCancer	0.00E+00	4.61E-04	1.89E-02	0.00E+00	0.00E+00	1.89E-02	4.61E-04	0.00E+00	4.61E-04	0.00E+00	0.00E+00	1.89E-02	0.00E+00	0.00E+00	1.89E-02
85	ALL		287862.2	4025809	NonCancer	0.00E+00	4.38E-04	1.80E-02	0.00E+00	0.00E+00	1.80E-02	4.38E-04	0.00E+00	4.38E-04	0.00E+00	0.00E+00	1.80E-02	0.00E+00	0.00E+00	1.80E-02
86	ALL		287879.8	4025805	NonCancer	0.00E+00	4.24E-04	1.74E-02	0.00E+00	0.00E+00	1.74E-02	4.24E-04	0.00E+00	4.24E-04	0.00E+00	0.00E+00	1.74E-02	0.00E+00	0.00E+00	1.74E-02
87	ALL		287901.5	4025805	NonCancer	0.00E+00	4.07E-04	1.67E-02	0.00E+00	0.00E+00	1.67E-02	4.07E-04	0.00E+00	4.07E-04	0.00E+00	0.00E+00	1.67E-02	0.00E+00	0.00E+00	1.67E-02
88	ALL		287920.1	4025805	NonCancer	0.00E+00	3.94E-04	1.62E-02	0.00E+00	0.00E+00	1.62E-02	3.94E-04	0.00E+00	3.94E-04	0.00E+00	0.00E+00	1.62E-02	0.00E+00	0.00E+00	1.62E-02
89	ALL		287921.1	4025853	NonCancer	0.00E+00	3.88E-04	1.59E-02	0.00E+00	0.00E+00	1.59E-02	3.88E-04	0.00E+00	3.88E-04	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	1.59E-02
90	ALL		287899.4	4025853	NonCancer	0.00E+00	4.17E-04	1.72E-02	0.00E+00	0.00E+00	1.72E-02	4.17E-04	0.00E+00	4.17E-04	0.00E+00	0.00E+00	1.72E-02	0.00E+00	0.00E+00	1.72E-02
91	ALL		287878.7	4025855	NonCancer	0.00E+00	4.50E-04	1.85E-02	0.00E+00	0.00E+00	1.85E-02	4.50E-04	0.00E+00	4.50E-04	0.00E+00	0.00E+00	1.85E-02	0.00E+00	0.00E+00	1.85E-02
92	ALL		287860.1	4025855	NonCancer	0.00E+00	4.68E-04	1.92E-02	0.00E+00	0.00E+00	1.92E-02	4.68E-04	0.00E+00	4.68E-04	0.00E+00	0.00E+00	1.92E-02	0.00E+00	0.00E+00	1.92E-02
93	ALL		287834.3	4025857	NonCancer	0.00E+00	4.96E-04	2.03E-02	0.00E+00	0.00E+00	2.03E-02	4.96E-04	0.00E+00	4.96E-04	0.00E+00	0.00E+00	2.03E-02	0.00E+00	0.00E+00	2.03E-02
94	ALL		287815.7	4025859	NonCancer	0.00E+00	5.17E-04	2.12E-02	0.00E+00	0.00E+00	2.12E-02	5.17E-04	0.00E+00	5.17E-04	0.00E+00	0.00E+00	2.12E-02	0.00E+00	0.00E+00	2.12E-02
95	ALL		287793.9	4025857	NonCancer	0.00E+00	5.38E-04	2.21E-02	0.00E+00	0.00E+00	2.21E-02	5.38E-04	0.00E+00	5.38E-04	0.00E+00	0.00E+00	2.21E-02	0.00E+00	0.00E+00	2.21E-02
96	ALL		287773.3	4025863	NonCancer	0.00E+00	5.69E-04	2.33E-02	0.00E+00	0.00E+00	2.33E-02	5.69E-04	0.00E+00	5.69E-04	0.00E+00	0.00E+00	2.33E-02	0.00E+00	0.00E+00	2.33E-02
97	ALL		287751.5	4025864	NonCancer	0.00E+00	5.93E-04	2.44E-02	0.00E+00	0.00E+00	2.44E-02	5.93E-04	0.00E+00	5.93E-04	0.00E+00	0.00E+00	2.44E-02	0.00E+00	0.00E+00	2.44E-02
98	ALL		287730.9	4025862	NonCancer	0.00E+00	6.28E-04	2.57E-02	0.00E+00	0.00E+00	2.57E-02	6.28E-04	0.00E+00	6.28E-04	0.00E+00	0.00E+00	2.57E-02	0.00E+00	0.00E+00	2.57E-02
99	ALL		287712.2	4025862	NonCancer	0.00E+00	6.55E-04	2.68E-02	0.00E+00	0.00E+00	2.68E-02	6.55E-04	0.00E+00	6.55E-04	0.00E+00	0.00E+00	2.68E-02	0.00E+00	0.00E+00	2.68E-02
100	ALL		287687.4	4025858	NonCancer	0.00E+00	6.91E-04	2.83E-02	0.00E+00	0.00E+00	2.83E-02	6.91E-04	0.00E+00	6.91E-04	0.00E+00	0.00E+00	2.83E-02	0.00E+00	0.00E+00	2.83E-02
101	ALL		287665.7	4025859	NonCancer	0.00E+00	7.27E-04	2.98E-02	0.00E+00	0.00E+00	2.98E-02	7.27E-04	0.00E+00	7.27E-04	0.00E+00	0.00E+00	2.98E-02	0.00E+00	0.00E+00	2.98E-02
102	ALL		287962.2	4026055	NonCancer	0.00E+00	4.07E-04	1.68E-02	0.00E+00	0.00E+00	1.68E-02	4.07E-04	0.00E+00	4.07E-04	0.00E+00	0.00E+00	1.68E-02	0.00E+00	0.00E+00	1.68E-02
103	ALL		287985.6	4026053	NonCancer	0.00E+00	3.87E-04	1.59E-02	0.00E+00	0.00E+00	1.59E-02	3.87E-04	0.00E+00	3.87E-04	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	1.59E-02
104	ALL		288008.1	4026050	NonCancer	0.00E+00	3.69E-04	1.52E-02	0.00E+00	0.00E+00	1.52E-02	3.69E-04	0.00E+00	3.69E-04	0.00E+00	0.00E+00	1.52E-02	0.00E+00	0.00E+00	1.52E-02
105	ALL		288031.5	4026049	NonCancer	0.00E+00	3.51E-04	1.44E-02	0.00E+00	0.00E+00	1.44E-02	3.51E-04	0.00E+00	3.51E-04	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	1.44E-02
106	ALL		288051.6	4026043	NonCancer	0.00E+00	3.37E-04	1.38E-02	0.00E+00	0.00E+00	1.38E-02	3.37E-04	0.00E+00	3.37E-04	0.00E+00	0.00E+00	1.38E-02	0.00E+00	0.00E+00	1.38E-02

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
107	ALL		288078.2	4026044	NonCancer	0.00E+00	3.20E-04	1.31E-02	0.00E+00	0.00E+00	1.31E-02	3.20E-04	0.00E+00	3.20E-04	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	1.31E-02
108	ALL		288092.7	4026042	NonCancer	0.00E+00	3.11E-04	1.28E-02	0.00E+00	0.00E+00	1.28E-02	3.11E-04	0.00E+00	3.11E-04	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	1.28E-02
109	ALL		288110.4	4026046	NonCancer	0.00E+00	3.01E-04	1.24E-02	0.00E+00	0.00E+00	1.24E-02	3.01E-04	0.00E+00	3.01E-04	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	1.24E-02
110	ALL		288137.7	4026043	NonCancer	0.00E+00	2.87E-04	1.18E-02	0.00E+00	0.00E+00	1.18E-02	2.87E-04	0.00E+00	2.87E-04	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	1.18E-02
111	ALL		288154.7	4026046	NonCancer	0.00E+00	2.79E-04	1.15E-02	0.00E+00	0.00E+00	1.15E-02	2.79E-04	0.00E+00	2.79E-04	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	1.15E-02
112	ALL		288177.2	4026042	NonCancer	0.00E+00	2.68E-04	1.10E-02	0.00E+00	0.00E+00	1.10E-02	2.68E-04	0.00E+00	2.68E-04	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	1.10E-02
113	ALL		288223.1	4026042	NonCancer	0.00E+00	2.49E-04	1.03E-02	0.00E+00	0.00E+00	1.03E-02	2.49E-04	0.00E+00	2.49E-04	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	1.03E-02
114	ALL		288264.2	4026046	NonCancer	0.00E+00	2.34E-04	9.63E-03	0.00E+00	0.00E+00	9.63E-03	2.34E-04	0.00E+00	2.34E-04	0.00E+00	0.00E+00	9.63E-03	0.00E+00	0.00E+00	9.63E-03
115	ALL		288294.7	4026042	NonCancer	0.00E+00	2.23E-04	9.19E-03	0.00E+00	0.00E+00	9.19E-03	2.23E-04	0.00E+00	2.23E-04	0.00E+00	0.00E+00	9.19E-03	0.00E+00	0.00E+00	9.19E-03
116	ALL		287966.3	4025995	NonCancer	0.00E+00	3.95E-04	1.62E-02	0.00E+00	0.00E+00	1.62E-02	3.95E-04	0.00E+00	3.95E-04	0.00E+00	0.00E+00	1.62E-02	0.00E+00	0.00E+00	1.62E-02
117	ALL		287984.8	4025995	NonCancer	0.00E+00	3.79E-04	1.56E-02	0.00E+00	0.00E+00	1.56E-02	3.79E-04	0.00E+00	3.79E-04	0.00E+00	0.00E+00	1.56E-02	0.00E+00	0.00E+00	1.56E-02
118	ALL		288008.9	4025997	NonCancer	0.00E+00	3.62E-04	1.49E-02	0.00E+00	0.00E+00	1.49E-02	3.62E-04	0.00E+00	3.62E-04	0.00E+00	0.00E+00	1.49E-02	0.00E+00	0.00E+00	1.49E-02
119	ALL		288028.3	4025997	NonCancer	0.00E+00	3.46E-04	1.43E-02	0.00E+00	0.00E+00	1.43E-02	3.46E-04	0.00E+00	3.46E-04	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	1.43E-02
120	ALL		288051.6	4025996	NonCancer	0.00E+00	3.32E-04	1.36E-02	0.00E+00	0.00E+00	1.36E-02	3.32E-04	0.00E+00	3.32E-04	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	1.36E-02
121	ALL		288073.3	4025999	NonCancer	0.00E+00	3.18E-04	1.31E-02	0.00E+00	0.00E+00	1.31E-02	3.18E-04	0.00E+00	3.18E-04	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	1.31E-02
122	ALL		288091.9	4025998	NonCancer	0.00E+00	3.08E-04	1.27E-02	0.00E+00	0.00E+00	1.27E-02	3.08E-04	0.00E+00	3.08E-04	0.00E+00	0.00E+00	1.27E-02	0.00E+00	0.00E+00	1.27E-02
123	ALL		288113.6	4025997	NonCancer	0.00E+00	2.96E-04	1.22E-02	0.00E+00	0.00E+00	1.22E-02	2.96E-04	0.00E+00	2.96E-04	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	1.22E-02
124	ALL		288153	4025997	NonCancer	0.00E+00	2.75E-04	1.14E-02	0.00E+00	0.00E+00	1.14E-02	2.75E-04	0.00E+00	2.75E-04	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	1.14E-02
125	ALL		288178	4026000	NonCancer	0.00E+00	2.66E-04	1.09E-02	0.00E+00	0.00E+00	1.09E-02	2.66E-04	0.00E+00	2.66E-04	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	1.09E-02
126	ALL		288195.7	4025997	NonCancer	0.00E+00	2.58E-04	1.06E-02	0.00E+00	0.00E+00	1.06E-02	2.58E-04	0.00E+00	2.58E-04	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	1.06E-02
127	ALL		288231.1	4026000	NonCancer	0.00E+00	2.43E-04	1.00E-02	0.00E+00	0.00E+00	1.00E-02	2.43E-04	0.00E+00	2.43E-04	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	1.00E-02
128	ALL		288248.1	4025999	NonCancer	0.00E+00	2.37E-04	9.76E-03	0.00E+00	0.00E+00	9.76E-03	2.37E-04	0.00E+00	2.37E-04	0.00E+00	0.00E+00	9.76E-03	0.00E+00	0.00E+00	9.76E-03
129	ALL		288299.6	4026016	NonCancer	0.00E+00	2.20E-04	9.07E-03	0.00E+00	0.00E+00	9.07E-03	2.20E-04	0.00E+00	2.20E-04	0.00E+00	0.00E+00	9.07E-03	0.00E+00	0.00E+00	9.07E-03
130	ALL		288305.2	4025994	NonCancer	0.00E+00	2.17E-04	8.95E-03	0.00E+00	0.00E+00	8.95E-03	2.17E-04	0.00E+00	2.17E-04	0.00E+00	0.00E+00	8.95E-03	0.00E+00	0.00E+00	8.95E-03
131	ALL		288303.6	4025972	NonCancer	0.00E+00	2.16E-04	8.93E-03	0.00E+00	0.00E+00	8.93E-03	2.16E-04	0.00E+00	2.16E-04	0.00E+00	0.00E+00	8.93E-03	0.00E+00	0.00E+00	8.93E-03
132	ALL		288301.2	4025949	NonCancer	0.00E+00	2.17E-04	8.94E-03	0.00E+00	0.00E+00	8.94E-03	2.17E-04	0.00E+00	2.17E-04	0.00E+00	0.00E+00	8.94E-03	0.00E+00	0.00E+00	8.94E-03
133	ALL		288298.8	4025928	NonCancer	0.00E+00	2.16E-04	8.89E-03	0.00E+00	0.00E+00	8.89E-03	2.16E-04	0.00E+00	2.16E-04	0.00E+00	0.00E+00	8.89E-03	0.00E+00	0.00E+00	8.89E-03
134	ALL		288298	4025909	NonCancer	0.00E+00	2.15E-04	8.83E-03	0.00E+00	0.00E+00	8.83E-03	2.15E-04	0.00E+00	2.15E-04	0.00E+00	0.00E+00	8.83E-03	0.00E+00	0.00E+00	8.83E-03
135	ALL		287966.3	4025949	NonCancer	0.00E+00	3.85E-04	1.58E-02	0.00E+00	0.00E+00	1.58E-02	3.85E-04	0.00E+00	3.85E-04	0.00E+00	0.00E+00	1.58E-02	0.00E+00	0.00E+00	1.58E-02
136	ALL		287985.6	4025949	NonCancer	0.00E+00	3.69E-04	1.52E-02	0.00E+00	0.00E+00	1.52E-02	3.69E-04	0.00E+00	3.69E-04	0.00E+00	0.00E+00	1.52E-02	0.00E+00	0.00E+00	1.52E-02
137	ALL		288009.7	4025950	NonCancer	0.00E+00	3.53E-04	1.45E-02	0.00E+00	0.00E+00	1.45E-02	3.53E-04	0.00E+00	3.53E-04	0.00E+00	0.00E+00	1.45E-02	0.00E+00	0.00E+00	1.45E-02
138	ALL		288027.4	4025947	NonCancer	0.00E+00	3.40E-04	1.40E-02	0.00E+00	0.00E+00	1.40E-02	3.40E-04	0.00E+00	3.40E-04	0.00E+00	0.00E+00	1.40E-02	0.00E+00	0.00E+00	1.40E-02
139	ALL		288052.4	4025946	NonCancer	0.00E+00	3.23E-04	1.33E-02	0.00E+00	0.00E+00	1.33E-02	3.23E-04	0.00E+00	3.23E-04	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	1.33E-02
140	ALL		288074.1	4025947	NonCancer	0.00E+00	3.10E-04	1.28E-02	0.00E+00	0.00E+00	1.28E-02	3.10E-04	0.00E+00	3.10E-04	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	1.28E-02
141	ALL		288097.5	4025946	NonCancer	0.00E+00	2.98E-04	1.23E-02	0.00E+00	0.00E+00	1.23E-02	2.98E-04	0.00E+00	2.98E-04	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	1.23E-02
142	ALL		288117.6	4025950	NonCancer	0.00E+00	2.88E-04	1.19E-02	0.00E+00	0.00E+00	1.19E-02	2.88E-04	0.00E+00	2.88E-04	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	1.19E-02
143	ALL		288175.6	4025951	NonCancer	0.00E+00	2.61E-04	1.08E-02	0.00E+00	0.00E+00	1.08E-02	2.61E-04	0.00E+00	2.61E-04	0.00E+00	0.00E+00	1.08E-02	0.00E+00	0.00E+00	1.08E-02
144	ALL		288252.9	4025973	NonCancer	0.00E+00	2.34E-04	9.64E-03	0.00E+00	0.00E+00	9.64E-03	2.34E-04	0.00E+00	2.34E-04	0.00E+00	0.00E+00	9.64E-03	0.00E+00	0.00E+00	9.64E-03
145	ALL		288255.3	4025954	NonCancer	0.00E+00	2.32E-04	9.55E-03	0.00E+00	0.00E+00	9.55E-03	2.32E-04	0.00E+00	2.32E-04	0.00E+00	0.00E+00	9.55E-03	0.00E+00	0.00E+00	9.55E-03
146	ALL		288252.1	4025930	NonCancer	0.00E+00	2.30E-04	9.52E-03	0.00E+00	0.00E+00	9.52E-03	2.30E-04	0.00E+00	2.30E-04	0.00E+00	0.00E+00	9.52E-03	0.00E+00	0.00E+00	9.52E-03
147	ALL		288200.5	4025947	NonCancer	0.00E+00	2.51E-04	1.03E-02	0.00E+00	0.00E+00	1.03E-02	2.51E-04	0.00E+00	2.51E-04	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	1.03E-02
148	ALL		288219.1	4025924	NonCancer	0.00E+00	2.41E-04	9.96E-03	0.00E+00	0.00E+00	9.96E-03	2.41E-04	0.00E+00	2.41E-04	0.00E+00	0.00E+00	9.96E-03	0.00E+00	0.00E+00	9.96E-03
149	ALL		285750	4025350	NonCancer	0.00E+00	8.17E-05	3.46E-03	0.00E+00	0.00E+00	3.46E-03	8.17E-05	0.00E+00	8.17E-05	0.00E+00	0.00E+00	3.46E-03	0.00E+00	0.00E+00	3.46E-03
150	ALL		285850	4025350	NonCancer	0.00E+00	9.17E-05	3.82E-03	0.00E+00	0.00E+00	3.82E-03	9.17E-05	0.00E+00	9.17E-05	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	3.82E-03
151	ALL		285950	4025350	NonCancer	0.00E+00	9.51E-05	4.01E-03	0.00E+00	0.00E+00	4.01E-03	9.51E-05	0.00E+00	9.51E-05	0.00E+00	0.00E+00	4.01E-03	0.00E+00	0.00E+00	4.01E-03
152	ALL		286050	4025350	NonCancer	0.00E+00	1.02E-04	4.22E-03	0.00E+00	0.00E+00	4.22E-03	1.02E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00	4.22E-03	0.00E+00	0.00E+00	4.22E-03
153	ALL		286150	4025350	NonCancer	0.00E+00	1.08E-04	4.52E-03	0.00E+00	0.00E+00	4.52E-03	1.08E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00	4.52E-03	0.00E+00	0.00E+00	4.52E-03
154	ALL		286250	4025350	NonCancer	0.00E+00	1.18E-04	4.91E-03	0.00E+00	0.00E+00	4.91E-03	1.18E-04	0.00E+00	1.18E-04	0.00E+00	0.00E+00	4.91E-03	0.00E+00	0.00E+00	4.91E-03
155	ALL		286350	4025350	NonCancer	0.00E+00	1.27E-04	5.27E-03	0.00E+00	0.00E+00	5.27E-03	1.27E-04	0.00E+00	1.27E-04	0.00E+00	0.00E+00	5.27E-03	0.00E+00	0.00E+00	5.27E-03
156	ALL		286450	4025350	NonCancer	0.00E+00	1.40E-04	5.83E-03	0.00E+00	0.00E+00	5.83E-03	1.40E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00	5.83E-03	0.00E+00	0.00E+00	5.83E-03
157	ALL		286550	4025350	NonCancer	0.00E+00	1.51E-04	6.30E-03	0.00E+00	0.00E+00	6.30E-03	1.51E-04	0.00E+00	1.51E-04	0.00E+00	0.00E+00	6.30E-03	0.00E+00	0.00E+00	6.30E-03
158	ALL		286650	4025350	NonCancer	0.00E+00	1.66E-04	6.92E-03	0.00E+00	0.00E+00	6.92E-03	1.66E-04	0.00E+00	1.66E-04	0.00E+00	0.00E+00	6.92E-03	0.00E+00	0.00E+00	6.92E-03
159	ALL		286750	4025350	NonCancer	0.00E+00	1.80E-04	7.51E-03	0.00E+00	0.00E+00	7.51E-03	1.80E-04	0.00E+00	1.80E-04	0.00E+00	0.00E+00	7.51E-03	0.00E+00	0.00E+00	7.51E-03

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
160	ALL		286850	4025350	NonCancer	0.00E+00	1.69E-04	7.35E-03	0.00E+00	0.00E+00	7.35E-03	1.69E-04	0.00E+00	1.69E-04	0.00E+00	0.00E+00	7.35E-03	0.00E+00	0.00E+00	7.35E-03
161	ALL		286950	4025350	NonCancer	0.00E+00	2.07E-04	8.57E-03	0.00E+00	0.00E+00	8.57E-03	2.07E-04	0.00E+00	2.07E-04	0.00E+00	0.00E+00	8.57E-03	0.00E+00	0.00E+00	8.57E-03
162	ALL		287050	4025350	NonCancer	0.00E+00	2.21E-04	9.17E-03	0.00E+00	0.00E+00	9.17E-03	2.21E-04	0.00E+00	2.21E-04	0.00E+00	0.00E+00	9.17E-03	0.00E+00	0.00E+00	9.17E-03
163	ALL		287150	4025350	NonCancer	0.00E+00	2.30E-04	9.55E-03	0.00E+00	0.00E+00	9.55E-03	2.30E-04	0.00E+00	2.30E-04	0.00E+00	0.00E+00	9.55E-03	0.00E+00	0.00E+00	9.55E-03
164	ALL		287250	4025350	NonCancer	0.00E+00	2.42E-04	1.01E-02	0.00E+00	0.00E+00	1.01E-02	2.42E-04	0.00E+00	2.42E-04	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	1.01E-02
165	ALL		287350	4025350	NonCancer	0.00E+00	2.48E-04	1.03E-02	0.00E+00	0.00E+00	1.03E-02	2.48E-04	0.00E+00	2.48E-04	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	1.03E-02
166	ALL		287450	4025350	NonCancer	0.00E+00	2.52E-04	1.04E-02	0.00E+00	0.00E+00	1.04E-02	2.52E-04	0.00E+00	2.52E-04	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	1.04E-02
167	ALL		287550	4025350	NonCancer	0.00E+00	2.44E-04	1.00E-02	0.00E+00	0.00E+00	1.00E-02	2.44E-04	0.00E+00	2.44E-04	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	1.00E-02
168	ALL		287650	4025350	NonCancer	0.00E+00	2.29E-04	9.42E-03	0.00E+00	0.00E+00	9.42E-03	2.29E-04	0.00E+00	2.29E-04	0.00E+00	0.00E+00	9.42E-03	0.00E+00	0.00E+00	9.42E-03
169	ALL		287750	4025350	NonCancer	0.00E+00	2.21E-04	9.12E-03	0.00E+00	0.00E+00	9.12E-03	2.21E-04	0.00E+00	2.21E-04	0.00E+00	0.00E+00	9.12E-03	0.00E+00	0.00E+00	9.12E-03
170	ALL		285550	4025450	NonCancer	0.00E+00	7.69E-05	3.21E-03	0.00E+00	0.00E+00	3.21E-03	7.69E-05	0.00E+00	7.69E-05	0.00E+00	0.00E+00	3.21E-03	0.00E+00	0.00E+00	3.21E-03
171	ALL		285650	4025450	NonCancer	0.00E+00	8.25E-05	3.44E-03	0.00E+00	0.00E+00	3.44E-03	8.25E-05	0.00E+00	8.25E-05	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	3.44E-03
172	ALL		285750	4025450	NonCancer	0.00E+00	8.81E-05	3.66E-03	0.00E+00	0.00E+00	3.66E-03	8.81E-05	0.00E+00	8.81E-05	0.00E+00	0.00E+00	3.66E-03	0.00E+00	0.00E+00	3.66E-03
173	ALL		285850	4025450	NonCancer	0.00E+00	9.40E-05	3.90E-03	0.00E+00	0.00E+00	3.90E-03	9.40E-05	0.00E+00	9.40E-05	0.00E+00	0.00E+00	3.90E-03	0.00E+00	0.00E+00	3.90E-03
174	ALL		285950	4025450	NonCancer	0.00E+00	9.89E-05	4.17E-03	0.00E+00	0.00E+00	4.17E-03	9.89E-05	0.00E+00	9.89E-05	0.00E+00	0.00E+00	4.17E-03	0.00E+00	0.00E+00	4.17E-03
175	ALL		286050	4025450	NonCancer	0.00E+00	1.11E-04	4.63E-03	0.00E+00	0.00E+00	4.63E-03	1.11E-04	0.00E+00	1.11E-04	0.00E+00	0.00E+00	4.63E-03	0.00E+00	0.00E+00	4.63E-03
176	ALL		286150	4025450	NonCancer	0.00E+00	1.18E-04	4.98E-03	0.00E+00	0.00E+00	4.98E-03	1.18E-04	0.00E+00	1.18E-04	0.00E+00	0.00E+00	4.98E-03	0.00E+00	0.00E+00	4.98E-03
177	ALL		286250	4025450	NonCancer	0.00E+00	1.25E-04	5.20E-03	0.00E+00	0.00E+00	5.20E-03	1.25E-04	0.00E+00	1.25E-04	0.00E+00	0.00E+00	5.20E-03	0.00E+00	0.00E+00	5.20E-03
178	ALL		286350	4025450	NonCancer	0.00E+00	1.36E-04	5.67E-03	0.00E+00	0.00E+00	5.67E-03	1.36E-04	0.00E+00	1.36E-04	0.00E+00	0.00E+00	5.67E-03	0.00E+00	0.00E+00	5.67E-03
179	ALL		286450	4025450	NonCancer	0.00E+00	1.49E-04	6.21E-03	0.00E+00	0.00E+00	6.21E-03	1.49E-04	0.00E+00	1.49E-04	0.00E+00	0.00E+00	6.21E-03	0.00E+00	0.00E+00	6.21E-03
180	ALL		286550	4025450	NonCancer	0.00E+00	1.65E-04	6.90E-03	0.00E+00	0.00E+00	6.90E-03	1.65E-04	0.00E+00	1.65E-04	0.00E+00	0.00E+00	6.90E-03	0.00E+00	0.00E+00	6.90E-03
181	ALL		286650	4025450	NonCancer	0.00E+00	1.82E-04	7.59E-03	0.00E+00	0.00E+00	7.59E-03	1.82E-04	0.00E+00	1.82E-04	0.00E+00	0.00E+00	7.59E-03	0.00E+00	0.00E+00	7.59E-03
182	ALL		286750	4025450	NonCancer	0.00E+00	2.00E-04	8.31E-03	0.00E+00	0.00E+00	8.31E-03	2.00E-04	0.00E+00	2.00E-04	0.00E+00	0.00E+00	8.31E-03	0.00E+00	0.00E+00	8.31E-03
183	ALL		286850	4025450	NonCancer	0.00E+00	2.22E-04	9.26E-03	0.00E+00	0.00E+00	9.26E-03	2.22E-04	0.00E+00	2.22E-04	0.00E+00	0.00E+00	9.26E-03	0.00E+00	0.00E+00	9.26E-03
184	ALL		286950	4025450	NonCancer	0.00E+00	2.37E-04	1.00E-02	0.00E+00	0.00E+00	1.00E-02	2.37E-04	0.00E+00	2.37E-04	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	1.00E-02
185	ALL		287050	4025450	NonCancer	0.00E+00	2.55E-04	1.05E-02	0.00E+00	0.00E+00	1.05E-02	2.55E-04	0.00E+00	2.55E-04	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	1.05E-02
186	ALL		287150	4025450	NonCancer	0.00E+00	2.77E-04	1.15E-02	0.00E+00	0.00E+00	1.15E-02	2.77E-04	0.00E+00	2.77E-04	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	1.15E-02
187	ALL		287250	4025450	NonCancer	0.00E+00	2.86E-04	1.20E-02	0.00E+00	0.00E+00	1.20E-02	2.86E-04	0.00E+00	2.86E-04	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	1.20E-02
188	ALL		287350	4025450	NonCancer	0.00E+00	2.95E-04	1.23E-02	0.00E+00	0.00E+00	1.23E-02	2.95E-04	0.00E+00	2.95E-04	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	1.23E-02
189	ALL		287450	4025450	NonCancer	0.00E+00	3.01E-04	1.25E-02	0.00E+00	0.00E+00	1.25E-02	3.01E-04	0.00E+00	3.01E-04	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	1.25E-02
190	ALL		287550	4025450	NonCancer	0.00E+00	2.91E-04	1.21E-02	0.00E+00	0.00E+00	1.21E-02	2.91E-04	0.00E+00	2.91E-04	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	1.21E-02
191	ALL		287650	4025450	NonCancer	0.00E+00	2.71E-04	1.13E-02	0.00E+00	0.00E+00	1.13E-02	2.71E-04	0.00E+00	2.71E-04	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00	1.13E-02
192	ALL		287750	4025450	NonCancer	0.00E+00	2.52E-04	1.07E-02	0.00E+00	0.00E+00	1.07E-02	2.52E-04	0.00E+00	2.52E-04	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	1.07E-02
193	ALL		287850	4025450	NonCancer	0.00E+00	2.73E-04	1.12E-02	0.00E+00	0.00E+00	1.12E-02	2.73E-04	0.00E+00	2.73E-04	0.00E+00	0.00E+00	1.12E-02	0.00E+00	0.00E+00	1.12E-02
194	ALL		287950	4025450	NonCancer	0.00E+00	2.46E-04	1.02E-02	0.00E+00	0.00E+00	1.02E-02	2.46E-04	0.00E+00	2.46E-04	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	1.02E-02
195	ALL		285450	4025550	NonCancer	0.00E+00	7.34E-05	3.05E-03	0.00E+00	0.00E+00	3.05E-03	7.34E-05	0.00E+00	7.34E-05	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	3.05E-03
196	ALL		285550	4025550	NonCancer	0.00E+00	7.87E-05	3.27E-03	0.00E+00	0.00E+00	3.27E-03	7.87E-05	0.00E+00	7.87E-05	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	3.27E-03
197	ALL		285650	4025550	NonCancer	0.00E+00	8.49E-05	3.53E-03	0.00E+00	0.00E+00	3.53E-03	8.49E-05	0.00E+00	8.49E-05	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	3.53E-03
198	ALL		285750	4025550	NonCancer	0.00E+00	9.08E-05	3.78E-03	0.00E+00	0.00E+00	3.78E-03	9.08E-05	0.00E+00	9.08E-05	0.00E+00	0.00E+00	3.78E-03	0.00E+00	0.00E+00	3.78E-03
199	ALL		285850	4025550	NonCancer	0.00E+00	9.86E-05	4.10E-03	0.00E+00	0.00E+00	4.10E-03	9.86E-05	0.00E+00	9.86E-05	0.00E+00	0.00E+00	4.10E-03	0.00E+00	0.00E+00	4.10E-03
200	ALL		285950	4025550	NonCancer	0.00E+00	1.06E-04	4.43E-03	0.00E+00	0.00E+00	4.43E-03	1.06E-04	0.00E+00	1.06E-04	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	4.43E-03
201	ALL		286050	4025550	NonCancer	0.00E+00	1.15E-04	4.79E-03	0.00E+00	0.00E+00	4.79E-03	1.15E-04	0.00E+00	1.15E-04	0.00E+00	0.00E+00	4.79E-03	0.00E+00	0.00E+00	4.79E-03
202	ALL		286150	4025550	NonCancer	0.00E+00	1.23E-04	5.17E-03	0.00E+00	0.00E+00	5.17E-03	1.23E-04	0.00E+00	1.23E-04	0.00E+00	0.00E+00	5.17E-03	0.00E+00	0.00E+00	5.17E-03
203	ALL		286250	4025550	NonCancer	0.00E+00	1.38E-04	5.76E-03	0.00E+00	0.00E+00	5.76E-03	1.38E-04	0.00E+00	1.38E-04	0.00E+00	0.00E+00	5.76E-03	0.00E+00	0.00E+00	5.76E-03
204	ALL		286350	4025550	NonCancer	0.00E+00	1.52E-04	6.33E-03	0.00E+00	0.00E+00	6.33E-03	1.52E-04	0.00E+00	1.52E-04	0.00E+00	0.00E+00	6.33E-03	0.00E+00	0.00E+00	6.33E-03
205	ALL		286450	4025550	NonCancer	0.00E+00	1.61E-04	6.70E-03	0.00E+00	0.00E+00	6.70E-03	1.61E-04	0.00E+00	1.61E-04	0.00E+00	0.00E+00	6.70E-03	0.00E+00	0.00E+00	6.70E-03
206	ALL		286550	4025550	NonCancer	0.00E+00	1.79E-04	7.46E-03	0.00E+00	0.00E+00	7.46E-03	1.79E-04	0.00E+00	1.79E-04	0.00E+00	0.00E+00	7.46E-03	0.00E+00	0.00E+00	7.46E-03
207	ALL		286650	4025550	NonCancer	0.00E+00	2.01E-04	8.40E-03	0.00E+00	0.00E+00	8.40E-03	2.01E-04	0.00E+00	2.01E-04	0.00E+00	0.00E+00	8.40E-03	0.00E+00	0.00E+00	8.40E-03
208	ALL		286750	4025550	NonCancer	0.00E+00	2.26E-04	9.39E-03	0.00E+00	0.00E+00	9.39E-03	2.26E-04	0.00E+00	2.26E-04	0.00E+00	0.00E+00	9.39E-03	0.00E+00	0.00E+00	9.39E-03
209	ALL		286850	4025550	NonCancer	0.00E+00	2.51E-04	1.04E-02	0.00E+00	0.00E+00	1.04E-02	2.51E-04	0.00E+00	2.51E-04	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	1.04E-02
210	ALL		286950	4025550	NonCancer	0.00E+00	2.78E-04	1.14E-02	0.00E+00	0.00E+00	1.14E-02	2.78E-04	0.00E+00	2.78E-04	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	1.14E-02
211	ALL		287050	4025550	NonCancer	0.00E+00	3.06E-04	1.27E-02	0.00E+00	0.00E+00	1.27E-02	3.06E-04	0.00E+00	3.06E-04	0.00E+00	0.00E+00	1.27E-02	0.00E+00	0.00E+00	1.27E-02
212	ALL		287150	4025550	NonCancer	0.00E+00	3.33E-04	1.39E-02	0.00E+00	0.00E+00	1.39E-02	3.33E-04	0.00E+00	3.33E-04	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	1.39E-02

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
213	ALL		287250	4025550	NonCancer	0.00E+00	3.53E-04	1.47E-02	0.00E+00	0.00E+00	1.47E-02	3.53E-04	0.00E+00	3.53E-04	0.00E+00	0.00E+00	1.47E-02	0.00E+00	0.00E+00	1.47E-02
214	ALL		287350	4025550	NonCancer	0.00E+00	3.65E-04	1.52E-02	0.00E+00	0.00E+00	1.52E-02	3.65E-04	0.00E+00	3.65E-04	0.00E+00	0.00E+00	1.52E-02	0.00E+00	0.00E+00	1.52E-02
215	ALL		287450	4025550	NonCancer	0.00E+00	3.71E-04	1.54E-02	0.00E+00	0.00E+00	1.54E-02	3.71E-04	0.00E+00	3.71E-04	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	1.54E-02
216	ALL		287550	4025550	NonCancer	0.00E+00	3.50E-04	1.46E-02	0.00E+00	0.00E+00	1.46E-02	3.50E-04	0.00E+00	3.50E-04	0.00E+00	0.00E+00	1.46E-02	0.00E+00	0.00E+00	1.46E-02
217	ALL		287650	4025550	NonCancer	0.00E+00	3.29E-04	1.36E-02	0.00E+00	0.00E+00	1.36E-02	3.29E-04	0.00E+00	3.29E-04	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	1.36E-02
218	ALL		287750	4025550	NonCancer	0.00E+00	3.45E-04	1.41E-02	0.00E+00	0.00E+00	1.41E-02	3.45E-04	0.00E+00	3.45E-04	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	1.41E-02
219	ALL		287850	4025550	NonCancer	0.00E+00	3.09E-04	1.27E-02	0.00E+00	0.00E+00	1.27E-02	3.09E-04	0.00E+00	3.09E-04	0.00E+00	0.00E+00	1.27E-02	0.00E+00	0.00E+00	1.27E-02
220	ALL		287950	4025550	NonCancer	0.00E+00	2.78E-04	1.14E-02	0.00E+00	0.00E+00	1.14E-02	2.78E-04	0.00E+00	2.78E-04	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	1.14E-02
221	ALL		288050	4025550	NonCancer	0.00E+00	2.47E-04	1.02E-02	0.00E+00	0.00E+00	1.02E-02	2.47E-04	0.00E+00	2.47E-04	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	1.02E-02
222	ALL		285350	4025650	NonCancer	0.00E+00	6.99E-05	2.92E-03	0.00E+00	0.00E+00	2.92E-03	6.99E-05	0.00E+00	6.99E-05	0.00E+00	0.00E+00	2.92E-03	0.00E+00	0.00E+00	2.92E-03
223	ALL		285450	4025650	NonCancer	0.00E+00	7.51E-05	3.13E-03	0.00E+00	0.00E+00	3.13E-03	7.51E-05	0.00E+00	7.51E-05	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	3.13E-03
224	ALL		285550	4025650	NonCancer	0.00E+00	8.07E-05	3.36E-03	0.00E+00	0.00E+00	3.36E-03	8.07E-05	0.00E+00	8.07E-05	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	3.36E-03
225	ALL		285650	4025650	NonCancer	0.00E+00	8.68E-05	3.61E-03	0.00E+00	0.00E+00	3.61E-03	8.68E-05	0.00E+00	8.68E-05	0.00E+00	0.00E+00	3.61E-03	0.00E+00	0.00E+00	3.61E-03
226	ALL		285750	4025650	NonCancer	0.00E+00	9.29E-05	3.88E-03	0.00E+00	0.00E+00	3.88E-03	9.29E-05	0.00E+00	9.29E-05	0.00E+00	0.00E+00	3.88E-03	0.00E+00	0.00E+00	3.88E-03
227	ALL		285850	4025650	NonCancer	0.00E+00	1.01E-04	4.20E-03	0.00E+00	0.00E+00	4.20E-03	1.01E-04	0.00E+00	1.01E-04	0.00E+00	0.00E+00	4.20E-03	0.00E+00	0.00E+00	4.20E-03
228	ALL		285950	4025650	NonCancer	0.00E+00	1.10E-04	4.59E-03	0.00E+00	0.00E+00	4.59E-03	1.10E-04	0.00E+00	1.10E-04	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	4.59E-03
229	ALL		286050	4025650	NonCancer	0.00E+00	1.20E-04	5.02E-03	0.00E+00	0.00E+00	5.02E-03	1.20E-04	0.00E+00	1.20E-04	0.00E+00	0.00E+00	5.02E-03	0.00E+00	0.00E+00	5.02E-03
230	ALL		286150	4025650	NonCancer	0.00E+00	1.32E-04	5.51E-03	0.00E+00	0.00E+00	5.51E-03	1.32E-04	0.00E+00	1.32E-04	0.00E+00	0.00E+00	5.51E-03	0.00E+00	0.00E+00	5.51E-03
231	ALL		286250	4025650	NonCancer	0.00E+00	1.45E-04	6.06E-03	0.00E+00	0.00E+00	6.06E-03	1.45E-04	0.00E+00	1.45E-04	0.00E+00	0.00E+00	6.06E-03	0.00E+00	0.00E+00	6.06E-03
232	ALL		286350	4025650	NonCancer	0.00E+00	1.59E-04	6.65E-03	0.00E+00	0.00E+00	6.65E-03	1.59E-04	0.00E+00	1.59E-04	0.00E+00	0.00E+00	6.65E-03	0.00E+00	0.00E+00	6.65E-03
233	ALL		286450	4025650	NonCancer	0.00E+00	1.80E-04	7.50E-03	0.00E+00	0.00E+00	7.50E-03	1.80E-04	0.00E+00	1.80E-04	0.00E+00	0.00E+00	7.50E-03	0.00E+00	0.00E+00	7.50E-03
234	ALL		286550	4025650	NonCancer	0.00E+00	1.98E-04	8.18E-03	0.00E+00	0.00E+00	8.18E-03	1.98E-04	0.00E+00	1.98E-04	0.00E+00	0.00E+00	8.18E-03	0.00E+00	0.00E+00	8.18E-03
235	ALL		286650	4025650	NonCancer	0.00E+00	2.20E-04	9.18E-03	0.00E+00	0.00E+00	9.18E-03	2.20E-04	0.00E+00	2.20E-04	0.00E+00	0.00E+00	9.18E-03	0.00E+00	0.00E+00	9.18E-03
236	ALL		286750	4025650	NonCancer	0.00E+00	2.47E-04	1.04E-02	0.00E+00	0.00E+00	1.04E-02	2.47E-04	0.00E+00	2.47E-04	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	1.04E-02
237	ALL		286850	4025650	NonCancer	0.00E+00	2.88E-04	1.20E-02	0.00E+00	0.00E+00	1.20E-02	2.88E-04	0.00E+00	2.88E-04	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	1.20E-02
238	ALL		286950	4025650	NonCancer	0.00E+00	3.27E-04	1.37E-02	0.00E+00	0.00E+00	1.37E-02	3.27E-04	0.00E+00	3.27E-04	0.00E+00	0.00E+00	1.37E-02	0.00E+00	0.00E+00	1.37E-02
239	ALL		287050	4025650	NonCancer	0.00E+00	3.48E-04	1.50E-02	0.00E+00	0.00E+00	1.50E-02	3.48E-04	0.00E+00	3.48E-04	0.00E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	1.50E-02
240	ALL		287150	4025650	NonCancer	0.00E+00	4.11E-04	1.72E-02	0.00E+00	0.00E+00	1.72E-02	4.11E-04	0.00E+00	4.11E-04	0.00E+00	0.00E+00	1.72E-02	0.00E+00	0.00E+00	1.72E-02
241	ALL		287250	4025650	NonCancer	0.00E+00	4.41E-04	1.85E-02	0.00E+00	0.00E+00	1.85E-02	4.41E-04	0.00E+00	4.41E-04	0.00E+00	0.00E+00	1.85E-02	0.00E+00	0.00E+00	1.85E-02
242	ALL		287350	4025650	NonCancer	0.00E+00	4.63E-04	1.93E-02	0.00E+00	0.00E+00	1.93E-02	4.63E-04	0.00E+00	4.63E-04	0.00E+00	0.00E+00	1.93E-02	0.00E+00	0.00E+00	1.93E-02
243	ALL		287450	4025650	NonCancer	0.00E+00	4.77E-04	1.97E-02	0.00E+00	0.00E+00	1.97E-02	4.77E-04	0.00E+00	4.77E-04	0.00E+00	0.00E+00	1.97E-02	0.00E+00	0.00E+00	1.97E-02
244	ALL		287550	4025650	NonCancer	0.00E+00	4.35E-04	1.78E-02	0.00E+00	0.00E+00	1.78E-02	4.35E-04	0.00E+00	4.35E-04	0.00E+00	0.00E+00	1.78E-02	0.00E+00	0.00E+00	1.78E-02
245	ALL		287650	4025650	NonCancer	0.00E+00	4.19E-04	1.80E-02	0.00E+00	0.00E+00	1.80E-02	4.19E-04	0.00E+00	4.19E-04	0.00E+00	0.00E+00	1.80E-02	0.00E+00	0.00E+00	1.80E-02
246	ALL		287750	4025650	NonCancer	0.00E+00	4.05E-04	1.68E-02	0.00E+00	0.00E+00	1.68E-02	4.05E-04	0.00E+00	4.05E-04	0.00E+00	0.00E+00	1.68E-02	0.00E+00	0.00E+00	1.68E-02
247	ALL		287850	4025650	NonCancer	0.00E+00	3.58E-04	1.47E-02	0.00E+00	0.00E+00	1.47E-02	3.58E-04	0.00E+00	3.58E-04	0.00E+00	0.00E+00	1.47E-02	0.00E+00	0.00E+00	1.47E-02
248	ALL		287950	4025650	NonCancer	0.00E+00	3.13E-04	1.29E-02	0.00E+00	0.00E+00	1.29E-02	3.13E-04	0.00E+00	3.13E-04	0.00E+00	0.00E+00	1.29E-02	0.00E+00	0.00E+00	1.29E-02
249	ALL		288050	4025650	NonCancer	0.00E+00	2.74E-04	1.13E-02	0.00E+00	0.00E+00	1.13E-02	2.74E-04	0.00E+00	2.74E-04	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00	1.13E-02
250	ALL		288150	4025650	NonCancer	0.00E+00	2.39E-04	9.88E-03	0.00E+00	0.00E+00	9.88E-03	2.39E-04	0.00E+00	2.39E-04	0.00E+00	0.00E+00	9.88E-03	0.00E+00	0.00E+00	9.88E-03
251	ALL		285250	4025750	NonCancer	0.00E+00	6.64E-05	2.77E-03	0.00E+00	0.00E+00	2.77E-03	6.64E-05	0.00E+00	6.64E-05	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00	2.77E-03
252	ALL		285350	4025750	NonCancer	0.00E+00	7.16E-05	2.98E-03	0.00E+00	0.00E+00	2.98E-03	7.16E-05	0.00E+00	7.16E-05	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	2.98E-03
253	ALL		285450	4025750	NonCancer	0.00E+00	7.60E-05	3.17E-03	0.00E+00	0.00E+00	3.17E-03	7.60E-05	0.00E+00	7.60E-05	0.00E+00	0.00E+00	3.17E-03	0.00E+00	0.00E+00	3.17E-03
254	ALL		285550	4025750	NonCancer	0.00E+00	8.18E-05	3.40E-03	0.00E+00	0.00E+00	3.40E-03	8.18E-05	0.00E+00	8.18E-05	0.00E+00	0.00E+00	3.40E-03	0.00E+00	0.00E+00	3.40E-03
255	ALL		285650	4025750	NonCancer	0.00E+00	8.84E-05	3.69E-03	0.00E+00	0.00E+00	3.69E-03	8.84E-05	0.00E+00	8.84E-05	0.00E+00	0.00E+00	3.69E-03	0.00E+00	0.00E+00	3.69E-03
256	ALL		285750	4025750	NonCancer	0.00E+00	9.51E-05	3.98E-03	0.00E+00	0.00E+00	3.98E-03	9.51E-05	0.00E+00	9.51E-05	0.00E+00	0.00E+00	3.98E-03	0.00E+00	0.00E+00	3.98E-03
257	ALL		285850	4025750	NonCancer	0.00E+00	1.04E-04	4.33E-03	0.00E+00	0.00E+00	4.33E-03	1.04E-04	0.00E+00	1.04E-04	0.00E+00	0.00E+00	4.33E-03	0.00E+00	0.00E+00	4.33E-03
258	ALL		285950	4025750	NonCancer	0.00E+00	1.13E-04	4.73E-03	0.00E+00	0.00E+00	4.73E-03	1.13E-04	0.00E+00	1.13E-04	0.00E+00	0.00E+00	4.73E-03	0.00E+00	0.00E+00	4.73E-03
259	ALL		286050	4025750	NonCancer	0.00E+00	1.24E-04	5.17E-03	0.00E+00	0.00E+00	5.17E-03	1.24E-04	0.00E+00	1.24E-04	0.00E+00	0.00E+00	5.17E-03	0.00E+00	0.00E+00	5.17E-03
260	ALL		286150	4025750	NonCancer	0.00E+00	1.36E-04	5.69E-03	0.00E+00	0.00E+00	5.69E-03	1.36E-04	0.00E+00	1.36E-04	0.00E+00	0.00E+00	5.69E-03	0.00E+00	0.00E+00	5.69E-03
261	ALL		286250	4025750	NonCancer	0.00E+00	1.53E-04	6.36E-03	0.00E+00	0.00E+00	6.36E-03	1.53E-04	0.00E+00	1.53E-04	0.00E+00	0.00E+00	6.36E-03	0.00E+00	0.00E+00	6.36E-03
262	ALL		286350	4025750	NonCancer	0.00E+00	1.70E-04	7.11E-03	0.00E+00	0.00E+00	7.11E-03	1.70E-04	0.00E+00	1.70E-04	0.00E+00	0.00E+00	7.11E-03	0.00E+00	0.00E+00	7.11E-03
263	ALL		286450	4025750	NonCancer	0.00E+00	1.92E-04	8.00E-03	0.00E+00	0.00E+00	8.00E-03	1.92E-04	0.00E+00	1.92E-04	0.00E+00	0.00E+00	8.00E-03	0.00E+00	0.00E+00	8.00E-03
264	ALL		286550	4025750	NonCancer	0.00E+00	2.16E-04	9.03E-03	0.00E+00	0.00E+00	9.03E-03	2.16E-04	0.00E+00	2.16E-04	0.00E+00	0.00E+00	9.03E-03	0.00E+00	0.00E+00	9.03E-03
265	ALL		286650	4025750	NonCancer	0.00E+00	2.51E-04	1.05E-02	0.00E+00	0.00E+00	1.05E-02	2.51E-04	0.00E+00	2.51E-04	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	1.05E-02

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
266	ALL		286750	4025750	NonCancer	0.00E+00	2.78E-04	1.16E-02	0.00E+00	0.00E+00	1.16E-02	2.78E-04	0.00E+00	2.78E-04	0.00E+00	0.00E+00	1.16E-02	0.00E+00	0.00E+00	1.16E-02
267	ALL		286850	4025750	NonCancer	0.00E+00	3.25E-04	1.35E-02	0.00E+00	0.00E+00	1.35E-02	3.25E-04	0.00E+00	3.25E-04	0.00E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	1.35E-02
268	ALL		286950	4025750	NonCancer	0.00E+00	3.89E-04	1.63E-02	0.00E+00	0.00E+00	1.63E-02	3.89E-04	0.00E+00	3.89E-04	0.00E+00	0.00E+00	1.63E-02	0.00E+00	0.00E+00	1.63E-02
269	ALL		287050	4025750	NonCancer	0.00E+00	4.55E-04	1.92E-02	0.00E+00	0.00E+00	1.92E-02	4.55E-04	0.00E+00	4.55E-04	0.00E+00	0.00E+00	1.92E-02	0.00E+00	0.00E+00	1.92E-02
270	ALL		287150	4025750	NonCancer	0.00E+00	5.38E-04	2.23E-02	0.00E+00	0.00E+00	2.23E-02	5.38E-04	0.00E+00	5.38E-04	0.00E+00	0.00E+00	2.23E-02	0.00E+00	0.00E+00	2.23E-02
271	ALL		287250	4025750	NonCancer	0.00E+00	5.96E-04	2.46E-02	0.00E+00	0.00E+00	2.46E-02	5.96E-04	0.00E+00	5.96E-04	0.00E+00	0.00E+00	2.46E-02	0.00E+00	0.00E+00	2.46E-02
272	ALL		287350	4025750	NonCancer	0.00E+00	6.07E-04	2.58E-02	0.00E+00	0.00E+00	2.58E-02	6.07E-04	0.00E+00	6.07E-04	0.00E+00	0.00E+00	2.58E-02	0.00E+00	0.00E+00	2.58E-02
273	ALL		287450	4025750	NonCancer	0.00E+00	6.43E-04	2.65E-02	0.00E+00	0.00E+00	2.65E-02	6.43E-04	0.00E+00	6.43E-04	0.00E+00	0.00E+00	2.65E-02	0.00E+00	0.00E+00	2.65E-02
274	ALL		287550	4025750	NonCancer	0.00E+00	5.77E-04	2.38E-02	0.00E+00	0.00E+00	2.38E-02	5.77E-04	0.00E+00	5.77E-04	0.00E+00	0.00E+00	2.38E-02	0.00E+00	0.00E+00	2.38E-02
275	ALL		287650	4025750	NonCancer	0.00E+00	5.80E-04	2.38E-02	0.00E+00	0.00E+00	2.38E-02	5.80E-04	0.00E+00	5.80E-04	0.00E+00	0.00E+00	2.38E-02	0.00E+00	0.00E+00	2.38E-02
276	ALL		287750	4025750	NonCancer	0.00E+00	4.90E-04	2.01E-02	0.00E+00	0.00E+00	2.01E-02	4.90E-04	0.00E+00	4.90E-04	0.00E+00	0.00E+00	2.01E-02	0.00E+00	0.00E+00	2.01E-02
277	ALL		287850	4025750	NonCancer	0.00E+00	4.14E-04	1.70E-02	0.00E+00	0.00E+00	1.70E-02	4.14E-04	0.00E+00	4.14E-04	0.00E+00	0.00E+00	1.70E-02	0.00E+00	0.00E+00	1.70E-02
278	ALL		287950	4025750	NonCancer	0.00E+00	3.49E-04	1.44E-02	0.00E+00	0.00E+00	1.44E-02	3.49E-04	0.00E+00	3.49E-04	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	1.44E-02
279	ALL		288050	4025750	NonCancer	0.00E+00	3.00E-04	1.24E-02	0.00E+00	0.00E+00	1.24E-02	3.00E-04	0.00E+00	3.00E-04	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	1.24E-02
280	ALL		288150	4025750	NonCancer	0.00E+00	2.44E-04	1.01E-02	0.00E+00	0.00E+00	1.01E-02	2.44E-04	0.00E+00	2.44E-04	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	1.01E-02
281	ALL		288250	4025750	NonCancer	0.00E+00	2.13E-04	8.76E-03	0.00E+00	0.00E+00	8.76E-03	2.13E-04	0.00E+00	2.13E-04	0.00E+00	0.00E+00	8.76E-03	0.00E+00	0.00E+00	8.76E-03
282	ALL		285250	4025850	NonCancer	0.00E+00	6.59E-05	2.75E-03	0.00E+00	0.00E+00	2.75E-03	6.59E-05	0.00E+00	6.59E-05	0.00E+00	0.00E+00	2.75E-03	0.00E+00	0.00E+00	2.75E-03
283	ALL		285350	4025850	NonCancer	0.00E+00	7.11E-05	2.97E-03	0.00E+00	0.00E+00	2.97E-03	7.11E-05	0.00E+00	7.11E-05	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	2.97E-03
284	ALL		285450	4025850	NonCancer	0.00E+00	7.71E-05	3.23E-03	0.00E+00	0.00E+00	3.23E-03	7.71E-05	0.00E+00	7.71E-05	0.00E+00	0.00E+00	3.23E-03	0.00E+00	0.00E+00	3.23E-03
285	ALL		285550	4025850	NonCancer	0.00E+00	8.35E-05	3.47E-03	0.00E+00	0.00E+00	3.47E-03	8.35E-05	0.00E+00	8.35E-05	0.00E+00	0.00E+00	3.47E-03	0.00E+00	0.00E+00	3.47E-03
286	ALL		285650	4025850	NonCancer	0.00E+00	8.90E-05	3.72E-03	0.00E+00	0.00E+00	3.72E-03	8.90E-05	0.00E+00	8.90E-05	0.00E+00	0.00E+00	3.72E-03	0.00E+00	0.00E+00	3.72E-03
287	ALL		285750	4025850	NonCancer	0.00E+00	9.71E-05	4.04E-03	0.00E+00	0.00E+00	4.04E-03	9.71E-05	0.00E+00	9.71E-05	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	4.04E-03
288	ALL		285850	4025850	NonCancer	0.00E+00	1.06E-04	4.43E-03	0.00E+00	0.00E+00	4.43E-03	1.06E-04	0.00E+00	1.06E-04	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	4.43E-03
289	ALL		285950	4025850	NonCancer	0.00E+00	1.15E-04	4.82E-03	0.00E+00	0.00E+00	4.82E-03	1.15E-04	0.00E+00	1.15E-04	0.00E+00	0.00E+00	4.82E-03	0.00E+00	0.00E+00	4.82E-03
290	ALL		286050	4025850	NonCancer	0.00E+00	1.27E-04	5.32E-03	0.00E+00	0.00E+00	5.32E-03	1.27E-04	0.00E+00	1.27E-04	0.00E+00	0.00E+00	5.32E-03	0.00E+00	0.00E+00	5.32E-03
291	ALL		286150	4025850	NonCancer	0.00E+00	1.42E-04	5.91E-03	0.00E+00	0.00E+00	5.91E-03	1.42E-04	0.00E+00	1.42E-04	0.00E+00	0.00E+00	5.91E-03	0.00E+00	0.00E+00	5.91E-03
292	ALL		286250	4025850	NonCancer	0.00E+00	1.58E-04	6.60E-03	0.00E+00	0.00E+00	6.60E-03	1.58E-04	0.00E+00	1.58E-04	0.00E+00	0.00E+00	6.60E-03	0.00E+00	0.00E+00	6.60E-03
293	ALL		286350	4025850	NonCancer	0.00E+00	1.78E-04	7.42E-03	0.00E+00	0.00E+00	7.42E-03	1.78E-04	0.00E+00	1.78E-04	0.00E+00	0.00E+00	7.42E-03	0.00E+00	0.00E+00	7.42E-03
294	ALL		286450	4025850	NonCancer	0.00E+00	2.02E-04	8.44E-03	0.00E+00	0.00E+00	8.44E-03	2.02E-04	0.00E+00	2.02E-04	0.00E+00	0.00E+00	8.44E-03	0.00E+00	0.00E+00	8.44E-03
295	ALL		286550	4025850	NonCancer	0.00E+00	2.33E-04	9.75E-03	0.00E+00	0.00E+00	9.75E-03	2.33E-04	0.00E+00	2.33E-04	0.00E+00	0.00E+00	9.75E-03	0.00E+00	0.00E+00	9.75E-03
296	ALL		286650	4025850	NonCancer	0.00E+00	2.72E-04	1.14E-02	0.00E+00	0.00E+00	1.14E-02	2.72E-04	0.00E+00	2.72E-04	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	1.14E-02
297	ALL		286750	4025850	NonCancer	0.00E+00	3.17E-04	1.33E-02	0.00E+00	0.00E+00	1.33E-02	3.17E-04	0.00E+00	3.17E-04	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	1.33E-02
298	ALL		286850	4025850	NonCancer	0.00E+00	3.86E-04	1.62E-02	0.00E+00	0.00E+00	1.62E-02	3.86E-04	0.00E+00	3.86E-04	0.00E+00	0.00E+00	1.62E-02	0.00E+00	0.00E+00	1.62E-02
299	ALL		286950	4025850	NonCancer	0.00E+00	4.54E-04	1.90E-02	0.00E+00	0.00E+00	1.90E-02	4.54E-04	0.00E+00	4.54E-04	0.00E+00	0.00E+00	1.90E-02	0.00E+00	0.00E+00	1.90E-02
300	ALL		287050	4025850	NonCancer	0.00E+00	5.69E-04	2.38E-02	0.00E+00	0.00E+00	2.38E-02	5.69E-04	0.00E+00	5.69E-04	0.00E+00	0.00E+00	2.38E-02	0.00E+00	0.00E+00	2.38E-02
301	ALL		287150	4025850	NonCancer	0.00E+00	7.10E-04	2.97E-02	0.00E+00	0.00E+00	2.97E-02	7.10E-04	0.00E+00	7.10E-04	0.00E+00	0.00E+00	2.97E-02	0.00E+00	0.00E+00	2.97E-02
302	ALL		287250	4025850	NonCancer	0.00E+00	8.22E-04	3.48E-02	0.00E+00	0.00E+00	3.48E-02	8.22E-04	0.00E+00	8.22E-04	0.00E+00	0.00E+00	3.48E-02	0.00E+00	0.00E+00	3.48E-02
303	ALL		287350	4025850	NonCancer	0.00E+00	9.13E-04	3.84E-02	0.00E+00	0.00E+00	3.84E-02	9.13E-04	0.00E+00	9.13E-04	0.00E+00	0.00E+00	3.84E-02	0.00E+00	0.00E+00	3.84E-02
304	ALL		287450	4025850	NonCancer	0.00E+00	9.20E-04	3.79E-02	0.00E+00	0.00E+00	3.79E-02	9.20E-04	0.00E+00	9.20E-04	0.00E+00	0.00E+00	3.79E-02	0.00E+00	0.00E+00	3.79E-02
305	ALL		287950	4025850	NonCancer	0.00E+00	3.67E-04	1.51E-02	0.00E+00	0.00E+00	1.51E-02	3.67E-04	0.00E+00	3.67E-04	0.00E+00	0.00E+00	1.51E-02	0.00E+00	0.00E+00	1.51E-02
306	ALL		288050	4025850	NonCancer	0.00E+00	3.04E-04	1.25E-02	0.00E+00	0.00E+00	1.25E-02	3.04E-04	0.00E+00	3.04E-04	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	1.25E-02
307	ALL		288150	4025850	NonCancer	0.00E+00	2.60E-04	1.07E-02	0.00E+00	0.00E+00	1.07E-02	2.60E-04	0.00E+00	2.60E-04	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	1.07E-02
308	ALL		288250	4025850	NonCancer	0.00E+00	2.23E-04	9.22E-03	0.00E+00	0.00E+00	9.22E-03	2.23E-04	0.00E+00	2.23E-04	0.00E+00	0.00E+00	9.22E-03	0.00E+00	0.00E+00	9.22E-03
309	ALL		285150	4025950	NonCancer	0.00E+00	6.38E-05	2.65E-03	0.00E+00	0.00E+00	2.65E-03	6.38E-05	0.00E+00	6.38E-05	0.00E+00	0.00E+00	2.65E-03	0.00E+00	0.00E+00	2.65E-03
310	ALL		285250	4025950	NonCancer	0.00E+00	6.79E-05	2.82E-03	0.00E+00	0.00E+00	2.82E-03	6.79E-05	0.00E+00	6.79E-05	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	2.82E-03
311	ALL		285350	4025950	NonCancer	0.00E+00	7.22E-05	3.01E-03	0.00E+00	0.00E+00	3.01E-03	7.22E-05	0.00E+00	7.22E-05	0.00E+00	0.00E+00	3.01E-03	0.00E+00	0.00E+00	3.01E-03
312	ALL		285450	4025950	NonCancer	0.00E+00	7.75E-05	3.24E-03	0.00E+00	0.00E+00	3.24E-03	7.75E-05	0.00E+00	7.75E-05	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	3.24E-03
313	ALL		285550	4025950	NonCancer	0.00E+00	8.38E-05	3.49E-03	0.00E+00	0.00E+00	3.49E-03	8.38E-05	0.00E+00	8.38E-05	0.00E+00	0.00E+00	3.49E-03	0.00E+00	0.00E+00	3.49E-03
314	ALL		285650	4025950	NonCancer	0.00E+00	9.02E-05	3.76E-03	0.00E+00	0.00E+00	3.76E-03	9.02E-05	0.00E+00	9.02E-05	0.00E+00	0.00E+00	3.76E-03	0.00E+00	0.00E+00	3.76E-03
315	ALL		285750	4025950	NonCancer	0.00E+00	9.79E-05	4.09E-03	0.00E+00	0.00E+00	4.09E-03	9.79E-05	0.00E+00	9.79E-05	0.00E+00	0.00E+00	4.09E-03	0.00E+00	0.00E+00	4.09E-03
316	ALL		285850	4025950	NonCancer	0.00E+00	1.07E-04	4.45E-03	0.00E+00	0.00E+00	4.45E-03	1.07E-04	0.00E+00	1.07E-04	0.00E+00	0.00E+00	4.45E-03	0.00E+00	0.00E+00	4.45E-03
317	ALL		285950	4025950	NonCancer	0.00E+00	1.15E-04	4.80E-03	0.00E+00	0.00E+00	4.80E-03	1.15E-04	0.00E+00	1.15E-04	0.00E+00	0.00E+00	4.80E-03	0.00E+00	0.00E+00	4.80E-03
318	ALL		286050	4025950	NonCancer	0.00E+00	1.28E-04	5.39E-03	0.00E+00	0.00E+00	5.39E-03	1.28E-04	0.00E+00	1.28E-04	0.00E+00	0.00E+00	5.39E-03	0.00E+00	0.00E+00	5.39E-03

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
319	ALL		286150	4025950	NonCancer	0.00E+00	1.45E-04	6.04E-03	0.00E+00	0.00E+00	6.04E-03	1.45E-04	0.00E+00	1.45E-04	0.00E+00	0.00E+00	6.04E-03	0.00E+00	0.00E+00	6.04E-03
320	ALL		286250	4025950	NonCancer	0.00E+00	1.61E-04	6.74E-03	0.00E+00	0.00E+00	6.74E-03	1.61E-04	0.00E+00	1.61E-04	0.00E+00	0.00E+00	6.74E-03	0.00E+00	0.00E+00	6.74E-03
321	ALL		286350	4025950	NonCancer	0.00E+00	1.83E-04	7.67E-03	0.00E+00	0.00E+00	7.67E-03	1.83E-04	0.00E+00	1.83E-04	0.00E+00	0.00E+00	7.67E-03	0.00E+00	0.00E+00	7.67E-03
322	ALL		286450	4025950	NonCancer	0.00E+00	2.09E-04	8.75E-03	0.00E+00	0.00E+00	8.75E-03	2.09E-04	0.00E+00	2.09E-04	0.00E+00	0.00E+00	8.75E-03	0.00E+00	0.00E+00	8.75E-03
323	ALL		286550	4025950	NonCancer	0.00E+00	2.45E-04	1.03E-02	0.00E+00	0.00E+00	1.03E-02	2.45E-04	0.00E+00	2.45E-04	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	1.03E-02
324	ALL		286650	4025950	NonCancer	0.00E+00	2.88E-04	1.21E-02	0.00E+00	0.00E+00	1.21E-02	2.88E-04	0.00E+00	2.88E-04	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	1.21E-02
325	ALL		286750	4025950	NonCancer	0.00E+00	3.47E-04	1.46E-02	0.00E+00	0.00E+00	1.46E-02	3.47E-04	0.00E+00	3.47E-04	0.00E+00	0.00E+00	1.46E-02	0.00E+00	0.00E+00	1.46E-02
326	ALL		286850	4025950	NonCancer	0.00E+00	4.29E-04	1.81E-02	0.00E+00	0.00E+00	1.81E-02	4.29E-04	0.00E+00	4.29E-04	0.00E+00	0.00E+00	1.81E-02	0.00E+00	0.00E+00	1.81E-02
327	ALL		286950	4025950	NonCancer	0.00E+00	5.42E-04	2.27E-02	0.00E+00	0.00E+00	2.27E-02	5.42E-04	0.00E+00	5.42E-04	0.00E+00	0.00E+00	2.27E-02	0.00E+00	0.00E+00	2.27E-02
328	ALL		287050	4025950	NonCancer	0.00E+00	7.13E-04	2.96E-02	0.00E+00	0.00E+00	2.96E-02	7.13E-04	0.00E+00	7.13E-04	0.00E+00	0.00E+00	2.96E-02	0.00E+00	0.00E+00	2.96E-02
329	ALL		287150	4025950	NonCancer	0.00E+00	9.58E-04	4.05E-02	0.00E+00	0.00E+00	4.05E-02	9.58E-04	0.00E+00	9.58E-04	0.00E+00	0.00E+00	4.05E-02	0.00E+00	0.00E+00	4.05E-02
330	ALL		287250	4025950	NonCancer	0.00E+00	1.31E-03	5.49E-02	0.00E+00	0.00E+00	5.49E-02	1.31E-03	0.00E+00	1.31E-03	0.00E+00	0.00E+00	5.49E-02	0.00E+00	0.00E+00	5.49E-02
331	ALL		287350	4025950	NonCancer	0.00E+00	1.61E-03	6.64E-02	0.00E+00	0.00E+00	6.64E-02	1.61E-03	0.00E+00	1.61E-03	0.00E+00	0.00E+00	6.64E-02	0.00E+00	0.00E+00	6.64E-02
332	ALL		287450	4025950	NonCancer	0.00E+00	1.51E-03	6.20E-02	0.00E+00	0.00E+00	6.20E-02	1.51E-03	0.00E+00	1.51E-03	0.00E+00	0.00E+00	6.20E-02	0.00E+00	0.00E+00	6.20E-02
333	ALL		285150	4026050	NonCancer	0.00E+00	6.39E-05	2.66E-03	0.00E+00	0.00E+00	2.66E-03	6.39E-05	0.00E+00	6.39E-05	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	2.66E-03
334	ALL		285250	4026050	NonCancer	0.00E+00	6.80E-05	2.84E-03	0.00E+00	0.00E+00	2.84E-03	6.80E-05	0.00E+00	6.80E-05	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	2.84E-03
335	ALL		285350	4026050	NonCancer	0.00E+00	7.29E-05	3.05E-03	0.00E+00	0.00E+00	3.05E-03	7.29E-05	0.00E+00	7.29E-05	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	3.05E-03
336	ALL		285450	4026050	NonCancer	0.00E+00	7.86E-05	3.28E-03	0.00E+00	0.00E+00	3.28E-03	7.86E-05	0.00E+00	7.86E-05	0.00E+00	0.00E+00	3.28E-03	0.00E+00	0.00E+00	3.28E-03
337	ALL		285550	4026050	NonCancer	0.00E+00	8.49E-05	3.54E-03	0.00E+00	0.00E+00	3.54E-03	8.49E-05	0.00E+00	8.49E-05	0.00E+00	0.00E+00	3.54E-03	0.00E+00	0.00E+00	3.54E-03
338	ALL		285650	4026050	NonCancer	0.00E+00	9.17E-05	3.82E-03	0.00E+00	0.00E+00	3.82E-03	9.17E-05	0.00E+00	9.17E-05	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	3.82E-03
339	ALL		285750	4026050	NonCancer	0.00E+00	9.93E-05	4.13E-03	0.00E+00	0.00E+00	4.13E-03	9.93E-05	0.00E+00	9.93E-05	0.00E+00	0.00E+00	4.13E-03	0.00E+00	0.00E+00	4.13E-03
340	ALL		285850	4026050	NonCancer	0.00E+00	1.08E-04	4.52E-03	0.00E+00	0.00E+00	4.52E-03	1.08E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00	4.52E-03	0.00E+00	0.00E+00	4.52E-03
341	ALL		285950	4026050	NonCancer	0.00E+00	1.19E-04	4.97E-03	0.00E+00	0.00E+00	4.97E-03	1.19E-04	0.00E+00	1.19E-04	0.00E+00	0.00E+00	4.97E-03	0.00E+00	0.00E+00	4.97E-03
342	ALL		286050	4026050	NonCancer	0.00E+00	1.32E-04	5.50E-03	0.00E+00	0.00E+00	5.50E-03	1.32E-04	0.00E+00	1.32E-04	0.00E+00	0.00E+00	5.50E-03	0.00E+00	0.00E+00	5.50E-03
343	ALL		286150	4026050	NonCancer	0.00E+00	1.46E-04	6.10E-03	0.00E+00	0.00E+00	6.10E-03	1.46E-04	0.00E+00	1.46E-04	0.00E+00	0.00E+00	6.10E-03	0.00E+00	0.00E+00	6.10E-03
344	ALL		286250	4026050	NonCancer	0.00E+00	1.63E-04	6.85E-03	0.00E+00	0.00E+00	6.85E-03	1.63E-04	0.00E+00	1.63E-04	0.00E+00	0.00E+00	6.85E-03	0.00E+00	0.00E+00	6.85E-03
345	ALL		286350	4026050	NonCancer	0.00E+00	1.87E-04	7.79E-03	0.00E+00	0.00E+00	7.79E-03	1.87E-04	0.00E+00	1.87E-04	0.00E+00	0.00E+00	7.79E-03	0.00E+00	0.00E+00	7.79E-03
346	ALL		286450	4026050	NonCancer	0.00E+00	2.13E-04	8.95E-03	0.00E+00	0.00E+00	8.95E-03	2.13E-04	0.00E+00	2.13E-04	0.00E+00	0.00E+00	8.95E-03	0.00E+00	0.00E+00	8.95E-03
347	ALL		286550	4026050	NonCancer	0.00E+00	2.51E-04	1.05E-02	0.00E+00	0.00E+00	1.05E-02	2.51E-04	0.00E+00	2.51E-04	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	1.05E-02
348	ALL		286650	4026050	NonCancer	0.00E+00	2.97E-04	1.24E-02	0.00E+00	0.00E+00	1.24E-02	2.97E-04	0.00E+00	2.97E-04	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	1.24E-02
349	ALL		286750	4026050	NonCancer	0.00E+00	3.61E-04	1.53E-02	0.00E+00	0.00E+00	1.53E-02	3.61E-04	0.00E+00	3.61E-04	0.00E+00	0.00E+00	1.53E-02	0.00E+00	0.00E+00	1.53E-02
350	ALL		286850	4026050	NonCancer	0.00E+00	4.59E-04	1.94E-02	0.00E+00	0.00E+00	1.94E-02	4.59E-04	0.00E+00	4.59E-04	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00	1.94E-02
351	ALL		286950	4026050	NonCancer	0.00E+00	6.05E-04	2.55E-02	0.00E+00	0.00E+00	2.55E-02	6.05E-04	0.00E+00	6.05E-04	0.00E+00	0.00E+00	2.55E-02	0.00E+00	0.00E+00	2.55E-02
352	ALL		287050	4026050	NonCancer	0.00E+00	8.49E-04	3.60E-02	0.00E+00	0.00E+00	3.60E-02	8.49E-04	0.00E+00	8.49E-04	0.00E+00	0.00E+00	3.60E-02	0.00E+00	0.00E+00	3.60E-02
353	ALL		287150	4026050	NonCancer	0.00E+00	1.30E-03	5.54E-02	0.00E+00	0.00E+00	5.54E-02	1.30E-03	0.00E+00	1.30E-03	0.00E+00	0.00E+00	5.54E-02	0.00E+00	0.00E+00	5.54E-02
354	ALL		287250	4026050	NonCancer	0.00E+00	2.21E-03	9.46E-02	0.00E+00	0.00E+00	9.46E-02	2.21E-03	0.00E+00	2.21E-03	0.00E+00	0.00E+00	9.46E-02	0.00E+00	0.00E+00	9.46E-02
355	ALL		287350	4026050	NonCancer	0.00E+00	3.79E-03	1.57E-01	0.00E+00	0.00E+00	1.57E-01	3.79E-03	0.00E+00	3.79E-03	0.00E+00	0.00E+00	1.57E-01	0.00E+00	0.00E+00	1.57E-01
356	ALL		287450	4026050	NonCancer	0.00E+00	3.39E-03	1.35E-01	0.00E+00	0.00E+00	1.35E-01	3.39E-03	0.00E+00	3.39E-03	0.00E+00	0.00E+00	1.35E-01	0.00E+00	0.00E+00	1.35E-01
357	ALL		285150	4026150	NonCancer	0.00E+00	6.47E-05	2.70E-03	0.00E+00	0.00E+00	2.70E-03	6.47E-05	0.00E+00	6.47E-05	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	2.70E-03
358	ALL		285250	4026150	NonCancer	0.00E+00	6.89E-05	2.88E-03	0.00E+00	0.00E+00	2.88E-03	6.89E-05	0.00E+00	6.89E-05	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	2.88E-03
359	ALL		285350	4026150	NonCancer	0.00E+00	7.37E-05	3.08E-03	0.00E+00	0.00E+00	3.08E-03	7.37E-05	0.00E+00	7.37E-05	0.00E+00	0.00E+00	3.08E-03	0.00E+00	0.00E+00	3.08E-03
360	ALL		285450	4026150	NonCancer	0.00E+00	7.90E-05	3.30E-03	0.00E+00	0.00E+00	3.30E-03	7.90E-05	0.00E+00	7.90E-05	0.00E+00	0.00E+00	3.30E-03	0.00E+00	0.00E+00	3.30E-03
361	ALL		285550	4026150	NonCancer	0.00E+00	8.51E-05	3.55E-03	0.00E+00	0.00E+00	3.55E-03	8.51E-05	0.00E+00	8.51E-05	0.00E+00	0.00E+00	3.55E-03	0.00E+00	0.00E+00	3.55E-03
362	ALL		285650	4026150	NonCancer	0.00E+00	9.19E-05	3.84E-03	0.00E+00	0.00E+00	3.84E-03	9.19E-05	0.00E+00	9.19E-05	0.00E+00	0.00E+00	3.84E-03	0.00E+00	0.00E+00	3.84E-03
363	ALL		285750	4026150	NonCancer	0.00E+00	9.98E-05	4.17E-03	0.00E+00	0.00E+00	4.17E-03	9.98E-05	0.00E+00	9.98E-05	0.00E+00	0.00E+00	4.17E-03	0.00E+00	0.00E+00	4.17E-03
364	ALL		285850	4026150	NonCancer	0.00E+00	1.09E-04	4.55E-03	0.00E+00	0.00E+00	4.55E-03	1.09E-04	0.00E+00	1.09E-04	0.00E+00	0.00E+00	4.55E-03	0.00E+00	0.00E+00	4.55E-03
365	ALL		287650	4026150	NonCancer	0.00E+00	1.22E-03	4.93E-02	0.00E+00	0.00E+00	4.93E-02	1.22E-03	0.00E+00	1.22E-03	0.00E+00	0.00E+00	4.93E-02	0.00E+00	0.00E+00	4.93E-02
366	ALL		287750	4026150	NonCancer	0.00E+00	8.03E-04	3.28E-02	0.00E+00	0.00E+00	3.28E-02	8.03E-04	0.00E+00	8.03E-04	0.00E+00	0.00E+00	3.28E-02	0.00E+00	0.00E+00	3.28E-02
367	ALL		287850	4026150	NonCancer	0.00E+00	5.87E-04	2.40E-02	0.00E+00	0.00E+00	2.40E-02	5.87E-04	0.00E+00	5.87E-04	0.00E+00	0.00E+00	2.40E-02	0.00E+00	0.00E+00	2.40E-02
368	ALL		287950	4026150	NonCancer	0.00E+00	4.53E-04	1.85E-02	0.00E+00	0.00E+00	1.85E-02	4.53E-04	0.00E+00	4.53E-04	0.00E+00	0.00E+00	1.85E-02	0.00E+00	0.00E+00	1.85E-02
369	ALL		288050	4026150	NonCancer	0.00E+00	3.64E-04	1.49E-02	0.00E+00	0.00E+00	1.49E-02	3.64E-04	0.00E+00	3.64E-04	0.00E+00	0.00E+00	1.49E-02	0.00E+00	0.00E+00	1.49E-02
370	ALL		288150	4026150	NonCancer	0.00E+00	3.01E-04	1.23E-02	0.00E+00	0.00E+00	1.23E-02	3.01E-04	0.00E+00	3.01E-04	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	1.23E-02
371	ALL		288250	4026150	NonCancer	0.00E+00	2.54E-04	1.04E-02	0.00E+00	0.00E+00	1.04E-02	2.54E-04	0.00E+00	2.54E-04	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	1.04E-02

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
372	ALL		285150	4026250	NonCancer	0.00E+00	6.45E-05	2.68E-03	0.00E+00	0.00E+00	2.68E-03	6.45E-05	0.00E+00	6.45E-05	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	2.68E-03
373	ALL		285250	4026250	NonCancer	0.00E+00	6.90E-05	2.87E-03	0.00E+00	0.00E+00	2.87E-03	6.90E-05	0.00E+00	6.90E-05	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	2.87E-03
374	ALL		285350	4026250	NonCancer	0.00E+00	7.38E-05	3.07E-03	0.00E+00	0.00E+00	3.07E-03	7.38E-05	0.00E+00	7.38E-05	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	3.07E-03
375	ALL		285450	4026250	NonCancer	0.00E+00	7.90E-05	3.29E-03	0.00E+00	0.00E+00	3.29E-03	7.90E-05	0.00E+00	7.90E-05	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	3.29E-03
376	ALL		285550	4026250	NonCancer	0.00E+00	8.45E-05	3.53E-03	0.00E+00	0.00E+00	3.53E-03	8.45E-05	0.00E+00	8.45E-05	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	3.53E-03
377	ALL		285650	4026250	NonCancer	0.00E+00	9.13E-05	3.81E-03	0.00E+00	0.00E+00	3.81E-03	9.13E-05	0.00E+00	9.13E-05	0.00E+00	0.00E+00	3.81E-03	0.00E+00	0.00E+00	3.81E-03
378	ALL		285750	4026250	NonCancer	0.00E+00	9.95E-05	4.14E-03	0.00E+00	0.00E+00	4.14E-03	9.95E-05	0.00E+00	9.95E-05	0.00E+00	0.00E+00	4.14E-03	0.00E+00	0.00E+00	4.14E-03
379	ALL		285850	4026250	NonCancer	0.00E+00	1.09E-04	4.54E-03	0.00E+00	0.00E+00	4.54E-03	1.09E-04	0.00E+00	1.09E-04	0.00E+00	0.00E+00	4.54E-03	0.00E+00	0.00E+00	4.54E-03
380	ALL		287650	4026250	NonCancer	0.00E+00	1.11E-03	4.53E-02	0.00E+00	0.00E+00	4.53E-02	1.11E-03	0.00E+00	1.11E-03	0.00E+00	0.00E+00	4.53E-02	0.00E+00	0.00E+00	4.53E-02
381	ALL		287750	4026250	NonCancer	0.00E+00	7.43E-04	3.10E-02	0.00E+00	0.00E+00	3.10E-02	7.43E-04	0.00E+00	7.43E-04	0.00E+00	0.00E+00	3.10E-02	0.00E+00	0.00E+00	3.10E-02
382	ALL		287850	4026250	NonCancer	0.00E+00	5.63E-04	2.33E-02	0.00E+00	0.00E+00	2.33E-02	5.63E-04	0.00E+00	5.63E-04	0.00E+00	0.00E+00	2.33E-02	0.00E+00	0.00E+00	2.33E-02
383	ALL		287950	4026250	NonCancer	0.00E+00	4.46E-04	1.83E-02	0.00E+00	0.00E+00	1.83E-02	4.46E-04	0.00E+00	4.46E-04	0.00E+00	0.00E+00	1.83E-02	0.00E+00	0.00E+00	1.83E-02
384	ALL		288050	4026250	NonCancer	0.00E+00	3.55E-04	1.47E-02	0.00E+00	0.00E+00	1.47E-02	3.55E-04	0.00E+00	3.55E-04	0.00E+00	0.00E+00	1.47E-02	0.00E+00	0.00E+00	1.47E-02
385	ALL		288150	4026250	NonCancer	0.00E+00	2.99E-04	1.23E-02	0.00E+00	0.00E+00	1.23E-02	2.99E-04	0.00E+00	2.99E-04	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	1.23E-02
386	ALL		288250	4026250	NonCancer	0.00E+00	2.44E-04	1.00E-02	0.00E+00	0.00E+00	1.00E-02	2.44E-04	0.00E+00	2.44E-04	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	1.00E-02
387	ALL		285150	4026350	NonCancer	0.00E+00	6.40E-05	2.68E-03	0.00E+00	0.00E+00	2.68E-03	6.40E-05	0.00E+00	6.40E-05	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	2.68E-03
388	ALL		285250	4026350	NonCancer	0.00E+00	6.80E-05	2.84E-03	0.00E+00	0.00E+00	2.84E-03	6.80E-05	0.00E+00	6.80E-05	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	2.84E-03
389	ALL		285350	4026350	NonCancer	0.00E+00	7.33E-05	3.05E-03	0.00E+00	0.00E+00	3.05E-03	7.33E-05	0.00E+00	7.33E-05	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	3.05E-03
390	ALL		285450	4026350	NonCancer	0.00E+00	7.86E-05	3.28E-03	0.00E+00	0.00E+00	3.28E-03	7.86E-05	0.00E+00	7.86E-05	0.00E+00	0.00E+00	3.28E-03	0.00E+00	0.00E+00	3.28E-03
391	ALL		285550	4026350	NonCancer	0.00E+00	8.37E-05	3.50E-03	0.00E+00	0.00E+00	3.50E-03	8.37E-05	0.00E+00	8.37E-05	0.00E+00	0.00E+00	3.50E-03	0.00E+00	0.00E+00	3.50E-03
392	ALL		285650	4026350	NonCancer	0.00E+00	9.13E-05	3.80E-03	0.00E+00	0.00E+00	3.80E-03	9.13E-05	0.00E+00	9.13E-05	0.00E+00	0.00E+00	3.80E-03	0.00E+00	0.00E+00	3.80E-03
393	ALL		285750	4026350	NonCancer	0.00E+00	9.88E-05	4.13E-03	0.00E+00	0.00E+00	4.13E-03	9.88E-05	0.00E+00	9.88E-05	0.00E+00	0.00E+00	4.13E-03	0.00E+00	0.00E+00	4.13E-03
394	ALL		285850	4026350	NonCancer	0.00E+00	1.08E-04	4.48E-03	0.00E+00	0.00E+00	4.48E-03	1.08E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00	4.48E-03	0.00E+00	0.00E+00	4.48E-03
395	ALL		287650	4026350	NonCancer	0.00E+00	8.77E-04	3.62E-02	0.00E+00	0.00E+00	3.62E-02	8.77E-04	0.00E+00	8.77E-04	0.00E+00	0.00E+00	3.62E-02	0.00E+00	0.00E+00	3.62E-02
396	ALL		287750	4026350	NonCancer	0.00E+00	6.40E-04	2.71E-02	0.00E+00	0.00E+00	2.71E-02	6.40E-04	0.00E+00	6.40E-04	0.00E+00	0.00E+00	2.71E-02	0.00E+00	0.00E+00	2.71E-02
397	ALL		287850	4026350	NonCancer	0.00E+00	5.25E-04	2.17E-02	0.00E+00	0.00E+00	2.17E-02	5.25E-04	0.00E+00	5.25E-04	0.00E+00	0.00E+00	2.17E-02	0.00E+00	0.00E+00	2.17E-02
398	ALL		287950	4026350	NonCancer	0.00E+00	4.15E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	4.15E-04	0.00E+00	4.15E-04	0.00E+00	0.00E+00	1.71E-02	0.00E+00	0.00E+00	1.71E-02
399	ALL		288050	4026350	NonCancer	0.00E+00	3.37E-04	1.38E-02	0.00E+00	0.00E+00	1.38E-02	3.37E-04	0.00E+00	3.37E-04	0.00E+00	0.00E+00	1.38E-02	0.00E+00	0.00E+00	1.38E-02
400	ALL		288150	4026350	NonCancer	0.00E+00	2.90E-04	1.20E-02	0.00E+00	0.00E+00	1.20E-02	2.90E-04	0.00E+00	2.90E-04	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	1.20E-02
401	ALL		288250	4026350	NonCancer	0.00E+00	2.45E-04	1.01E-02	0.00E+00	0.00E+00	1.01E-02	2.45E-04	0.00E+00	2.45E-04	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	1.01E-02
402	ALL		285150	4026450	NonCancer	0.00E+00	6.39E-05	2.66E-03	0.00E+00	0.00E+00	2.66E-03	6.39E-05	0.00E+00	6.39E-05	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	2.66E-03
403	ALL		285250	4026450	NonCancer	0.00E+00	6.79E-05	2.83E-03	0.00E+00	0.00E+00	2.83E-03	6.79E-05	0.00E+00	6.79E-05	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	2.83E-03
404	ALL		285350	4026450	NonCancer	0.00E+00	7.21E-05	3.00E-03	0.00E+00	0.00E+00	3.00E-03	7.21E-05	0.00E+00	7.21E-05	0.00E+00	0.00E+00	3.00E-03	0.00E+00	0.00E+00	3.00E-03
405	ALL		285450	4026450	NonCancer	0.00E+00	7.80E-05	3.25E-03	0.00E+00	0.00E+00	3.25E-03	7.80E-05	0.00E+00	7.80E-05	0.00E+00	0.00E+00	3.25E-03	0.00E+00	0.00E+00	3.25E-03
406	ALL		285550	4026450	NonCancer	0.00E+00	8.30E-05	3.47E-03	0.00E+00	0.00E+00	3.47E-03	8.30E-05	0.00E+00	8.30E-05	0.00E+00	0.00E+00	3.47E-03	0.00E+00	0.00E+00	3.47E-03
407	ALL		285650	4026450	NonCancer	0.00E+00	9.04E-05	3.77E-03	0.00E+00	0.00E+00	3.77E-03	9.04E-05	0.00E+00	9.04E-05	0.00E+00	0.00E+00	3.77E-03	0.00E+00	0.00E+00	3.77E-03
408	ALL		285750	4026450	NonCancer	0.00E+00	9.72E-05	4.05E-03	0.00E+00	0.00E+00	4.05E-03	9.72E-05	0.00E+00	9.72E-05	0.00E+00	0.00E+00	4.05E-03	0.00E+00	0.00E+00	4.05E-03
409	ALL		285850	4026450	NonCancer	0.00E+00	1.05E-04	4.42E-03	0.00E+00	0.00E+00	4.42E-03	1.05E-04	0.00E+00	1.05E-04	0.00E+00	0.00E+00	4.42E-03	0.00E+00	0.00E+00	4.42E-03
410	ALL		287650	4026450	NonCancer	0.00E+00	6.78E-04	2.83E-02	0.00E+00	0.00E+00	2.83E-02	6.78E-04	0.00E+00	6.78E-04	0.00E+00	0.00E+00	2.83E-02	0.00E+00	0.00E+00	2.83E-02
411	ALL		287750	4026450	NonCancer	0.00E+00	5.51E-04	2.29E-02	0.00E+00	0.00E+00	2.29E-02	5.51E-04	0.00E+00	5.51E-04	0.00E+00	0.00E+00	2.29E-02	0.00E+00	0.00E+00	2.29E-02
412	ALL		287850	4026450	NonCancer	0.00E+00	4.45E-04	1.84E-02	0.00E+00	0.00E+00	1.84E-02	4.45E-04	0.00E+00	4.45E-04	0.00E+00	0.00E+00	1.84E-02	0.00E+00	0.00E+00	1.84E-02
413	ALL		287950	4026450	NonCancer	0.00E+00	3.81E-04	1.58E-02	0.00E+00	0.00E+00	1.58E-02	3.81E-04	0.00E+00	3.81E-04	0.00E+00	0.00E+00	1.58E-02	0.00E+00	0.00E+00	1.58E-02
414	ALL		288050	4026450	NonCancer	0.00E+00	3.23E-04	1.33E-02	0.00E+00	0.00E+00	1.33E-02	3.23E-04	0.00E+00	3.23E-04	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	1.33E-02
415	ALL		288150	4026450	NonCancer	0.00E+00	2.76E-04	1.14E-02	0.00E+00	0.00E+00	1.14E-02	2.76E-04	0.00E+00	2.76E-04	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	1.14E-02
416	ALL		288250	4026450	NonCancer	0.00E+00	2.35E-04	9.70E-03	0.00E+00	0.00E+00	9.70E-03	2.35E-04	0.00E+00	2.35E-04	0.00E+00	0.00E+00	9.70E-03	0.00E+00	0.00E+00	9.70E-03
417	ALL		285150	4026550	NonCancer	0.00E+00	6.29E-05	2.63E-03	0.00E+00	0.00E+00	2.63E-03	6.29E-05	0.00E+00	6.29E-05	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	2.63E-03
418	ALL		285250	4026550	NonCancer	0.00E+00	6.73E-05	2.80E-03	0.00E+00	0.00E+00	2.80E-03	6.73E-05	0.00E+00	6.73E-05	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	2.80E-03
419	ALL		285350	4026550	NonCancer	0.00E+00	7.12E-05	2.98E-03	0.00E+00	0.00E+00	2.98E-03	7.12E-05	0.00E+00	7.12E-05	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	2.98E-03
420	ALL		285450	4026550	NonCancer	0.00E+00	7.71E-05	3.21E-03	0.00E+00	0.00E+00	3.21E-03	7.71E-05	0.00E+00	7.71E-05	0.00E+00	0.00E+00	3.21E-03	0.00E+00	0.00E+00	3.21E-03
421	ALL		285550	4026550	NonCancer	0.00E+00	8.18E-05	3.42E-03	0.00E+00	0.00E+00	3.42E-03	8.18E-05	0.00E+00	8.18E-05	0.00E+00	0.00E+00	3.42E-03	0.00E+00	0.00E+00	3.42E-03
422	ALL		285650	4026550	NonCancer	0.00E+00	8.87E-05	3.70E-03	0.00E+00	0.00E+00	3.70E-03	8.87E-05	0.00E+00	8.87E-05	0.00E+00	0.00E+00	3.70E-03	0.00E+00	0.00E+00	3.70E-03
423	ALL		285750	4026550	NonCancer	0.00E+00	9.62E-05	4.01E-03	0.00E+00	0.00E+00	4.01E-03	9.62E-05	0.00E+00	9.62E-05	0.00E+00	0.00E+00	4.01E-03	0.00E+00	0.00E+00	4.01E-03
424	ALL		285850	4026550	NonCancer	0.00E+00	1.05E-04	4.36E-03	0.00E+00	0.00E+00	4.36E-03	1.05E-04	0.00E+00	1.05E-04	0.00E+00	0.00E+00	4.36E-03	0.00E+00	0.00E+00	4.36E-03

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
425	ALL		287650	4026550	NonCancer	0.00E+00	5.42E-04	2.25E-02	0.00E+00	0.00E+00	2.25E-02	5.42E-04	0.00E+00	5.42E-04	0.00E+00	0.00E+00	2.25E-02	0.00E+00	0.00E+00	2.25E-02
426	ALL		287750	4026550	NonCancer	0.00E+00	4.63E-04	1.92E-02	0.00E+00	0.00E+00	1.92E-02	4.63E-04	0.00E+00	4.63E-04	0.00E+00	0.00E+00	1.92E-02	0.00E+00	0.00E+00	1.92E-02
427	ALL		287850	4026550	NonCancer	0.00E+00	3.89E-04	1.61E-02	0.00E+00	0.00E+00	1.61E-02	3.89E-04	0.00E+00	3.89E-04	0.00E+00	0.00E+00	1.61E-02	0.00E+00	0.00E+00	1.61E-02
428	ALL		287950	4026550	NonCancer	0.00E+00	3.30E-04	1.36E-02	0.00E+00	0.00E+00	1.36E-02	3.30E-04	0.00E+00	3.30E-04	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	1.36E-02
429	ALL		288050	4026550	NonCancer	0.00E+00	2.77E-04	1.13E-02	0.00E+00	0.00E+00	1.13E-02	2.77E-04	0.00E+00	2.77E-04	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00	1.13E-02
430	ALL		288150	4026550	NonCancer	0.00E+00	2.58E-04	1.07E-02	0.00E+00	0.00E+00	1.07E-02	2.58E-04	0.00E+00	2.58E-04	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	1.07E-02
431	ALL		288250	4026550	NonCancer	0.00E+00	2.25E-04	9.28E-03	0.00E+00	0.00E+00	9.28E-03	2.25E-04	0.00E+00	2.25E-04	0.00E+00	0.00E+00	9.28E-03	0.00E+00	0.00E+00	9.28E-03
432	ALL		285150	4026650	NonCancer	0.00E+00	6.26E-05	2.61E-03	0.00E+00	0.00E+00	2.61E-03	6.26E-05	0.00E+00	6.26E-05	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	2.61E-03
433	ALL		285250	4026650	NonCancer	0.00E+00	6.59E-05	2.76E-03	0.00E+00	0.00E+00	2.76E-03	6.59E-05	0.00E+00	6.59E-05	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	2.76E-03
434	ALL		285350	4026650	NonCancer	0.00E+00	7.09E-05	2.96E-03	0.00E+00	0.00E+00	2.96E-03	7.09E-05	0.00E+00	7.09E-05	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	2.96E-03
435	ALL		285450	4026650	NonCancer	0.00E+00	7.57E-05	3.15E-03	0.00E+00	0.00E+00	3.15E-03	7.57E-05	0.00E+00	7.57E-05	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	3.15E-03
436	ALL		285550	4026650	NonCancer	0.00E+00	8.02E-05	3.36E-03	0.00E+00	0.00E+00	3.36E-03	8.02E-05	0.00E+00	8.02E-05	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	3.36E-03
437	ALL		285650	4026650	NonCancer	0.00E+00	8.65E-05	3.62E-03	0.00E+00	0.00E+00	3.62E-03	8.65E-05	0.00E+00	8.65E-05	0.00E+00	0.00E+00	3.62E-03	0.00E+00	0.00E+00	3.62E-03
438	ALL		285750	4026650	NonCancer	0.00E+00	9.37E-05	3.91E-03	0.00E+00	0.00E+00	3.91E-03	9.37E-05	0.00E+00	9.37E-05	0.00E+00	0.00E+00	3.91E-03	0.00E+00	0.00E+00	3.91E-03
439	ALL		285850	4026650	NonCancer	0.00E+00	1.01E-04	4.23E-03	0.00E+00	0.00E+00	4.23E-03	1.01E-04	0.00E+00	1.01E-04	0.00E+00	0.00E+00	4.23E-03	0.00E+00	0.00E+00	4.23E-03
440	ALL		287650	4026650	NonCancer	0.00E+00	3.86E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	3.86E-04	0.00E+00	3.86E-04	0.00E+00	0.00E+00	1.71E-02	0.00E+00	0.00E+00	1.71E-02
441	ALL		287750	4026650	NonCancer	0.00E+00	3.87E-04	1.61E-02	0.00E+00	0.00E+00	1.61E-02	3.87E-04	0.00E+00	3.87E-04	0.00E+00	0.00E+00	1.61E-02	0.00E+00	0.00E+00	1.61E-02
442	ALL		287850	4026650	NonCancer	0.00E+00	3.37E-04	1.40E-02	0.00E+00	0.00E+00	1.40E-02	3.37E-04	0.00E+00	3.37E-04	0.00E+00	0.00E+00	1.40E-02	0.00E+00	0.00E+00	1.40E-02
443	ALL		287950	4026650	NonCancer	0.00E+00	2.87E-04	1.20E-02	0.00E+00	0.00E+00	1.20E-02	2.87E-04	0.00E+00	2.87E-04	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	1.20E-02
444	ALL		288050	4026650	NonCancer	0.00E+00	2.56E-04	1.06E-02	0.00E+00	0.00E+00	1.06E-02	2.56E-04	0.00E+00	2.56E-04	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	1.06E-02
445	ALL		288150	4026650	NonCancer	0.00E+00	2.26E-04	9.37E-03	0.00E+00	0.00E+00	9.37E-03	2.26E-04	0.00E+00	2.26E-04	0.00E+00	0.00E+00	9.37E-03	0.00E+00	0.00E+00	9.37E-03
446	ALL		288250	4026650	NonCancer	0.00E+00	1.94E-04	8.13E-03	0.00E+00	0.00E+00	8.13E-03	1.94E-04	0.00E+00	1.94E-04	0.00E+00	0.00E+00	8.13E-03	0.00E+00	0.00E+00	8.13E-03
447	ALL		285150	4026750	NonCancer	0.00E+00	6.16E-05	2.57E-03	0.00E+00	0.00E+00	2.57E-03	6.16E-05	0.00E+00	6.16E-05	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	2.57E-03
448	ALL		285250	4026750	NonCancer	0.00E+00	6.55E-05	2.73E-03	0.00E+00	0.00E+00	2.73E-03	6.55E-05	0.00E+00	6.55E-05	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	2.73E-03
449	ALL		285350	4026750	NonCancer	0.00E+00	6.93E-05	2.89E-03	0.00E+00	0.00E+00	2.89E-03	6.93E-05	0.00E+00	6.93E-05	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	2.89E-03
450	ALL		285450	4026750	NonCancer	0.00E+00	7.33E-05	3.07E-03	0.00E+00	0.00E+00	3.07E-03	7.33E-05	0.00E+00	7.33E-05	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	3.07E-03
451	ALL		285550	4026750	NonCancer	0.00E+00	7.87E-05	3.29E-03	0.00E+00	0.00E+00	3.29E-03	7.87E-05	0.00E+00	7.87E-05	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	3.29E-03
452	ALL		285650	4026750	NonCancer	0.00E+00	8.47E-05	3.54E-03	0.00E+00	0.00E+00	3.54E-03	8.47E-05	0.00E+00	8.47E-05	0.00E+00	0.00E+00	3.54E-03	0.00E+00	0.00E+00	3.54E-03
453	ALL		285750	4026750	NonCancer	0.00E+00	9.05E-05	3.79E-03	0.00E+00	0.00E+00	3.79E-03	9.05E-05	0.00E+00	9.05E-05	0.00E+00	0.00E+00	3.79E-03	0.00E+00	0.00E+00	3.79E-03
454	ALL		285850	4026750	NonCancer	0.00E+00	9.86E-05	4.11E-03	0.00E+00	0.00E+00	4.11E-03	9.86E-05	0.00E+00	9.86E-05	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	4.11E-03
455	ALL		287650	4026750	NonCancer	0.00E+00	2.56E-04	1.07E-02	0.00E+00	0.00E+00	1.07E-02	2.56E-04	0.00E+00	2.56E-04	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	1.07E-02
456	ALL		287750	4026750	NonCancer	0.00E+00	3.22E-04	1.35E-02	0.00E+00	0.00E+00	1.35E-02	3.22E-04	0.00E+00	3.22E-04	0.00E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	1.35E-02
457	ALL		287850	4026750	NonCancer	0.00E+00	2.92E-04	1.21E-02	0.00E+00	0.00E+00	1.21E-02	2.92E-04	0.00E+00	2.92E-04	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	1.21E-02
458	ALL		287950	4026750	NonCancer	0.00E+00	2.63E-04	1.09E-02	0.00E+00	0.00E+00	1.09E-02	2.63E-04	0.00E+00	2.63E-04	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	1.09E-02
459	ALL		288050	4026750	NonCancer	0.00E+00	2.20E-04	9.40E-03	0.00E+00	0.00E+00	9.40E-03	2.20E-04	0.00E+00	2.20E-04	0.00E+00	0.00E+00	9.40E-03	0.00E+00	0.00E+00	9.40E-03
460	ALL		288150	4026750	NonCancer	0.00E+00	2.09E-04	8.64E-03	0.00E+00	0.00E+00	8.64E-03	2.09E-04	0.00E+00	2.09E-04	0.00E+00	0.00E+00	8.64E-03	0.00E+00	0.00E+00	8.64E-03
461	ALL		288250	4026750	NonCancer	0.00E+00	1.87E-04	7.70E-03	0.00E+00	0.00E+00	7.70E-03	1.87E-04	0.00E+00	1.87E-04	0.00E+00	0.00E+00	7.70E-03	0.00E+00	0.00E+00	7.70E-03
462	ALL		285150	4026850	NonCancer	0.00E+00	6.01E-05	2.51E-03	0.00E+00	0.00E+00	2.51E-03	6.01E-05	0.00E+00	6.01E-05	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	2.51E-03
463	ALL		285250	4026850	NonCancer	0.00E+00	6.37E-05	2.66E-03	0.00E+00	0.00E+00	2.66E-03	6.37E-05	0.00E+00	6.37E-05	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	2.66E-03
464	ALL		285350	4026850	NonCancer	0.00E+00	6.83E-05	2.85E-03	0.00E+00	0.00E+00	2.85E-03	6.83E-05	0.00E+00	6.83E-05	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	2.85E-03
465	ALL		285450	4026850	NonCancer	0.00E+00	7.26E-05	3.03E-03	0.00E+00	0.00E+00	3.03E-03	7.26E-05	0.00E+00	7.26E-05	0.00E+00	0.00E+00	3.03E-03	0.00E+00	0.00E+00	3.03E-03
466	ALL		285550	4026850	NonCancer	0.00E+00	7.76E-05	3.24E-03	0.00E+00	0.00E+00	3.24E-03	7.76E-05	0.00E+00	7.76E-05	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	3.24E-03
467	ALL		285650	4026850	NonCancer	0.00E+00	8.28E-05	3.45E-03	0.00E+00	0.00E+00	3.45E-03	8.28E-05	0.00E+00	8.28E-05	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	3.45E-03
468	ALL		285750	4026850	NonCancer	0.00E+00	8.78E-05	3.67E-03	0.00E+00	0.00E+00	3.67E-03	8.78E-05	0.00E+00	8.78E-05	0.00E+00	0.00E+00	3.67E-03	0.00E+00	0.00E+00	3.67E-03
469	ALL		285850	4026850	NonCancer	0.00E+00	9.58E-05	4.00E-03	0.00E+00	0.00E+00	4.00E-03	9.58E-05	0.00E+00	9.58E-05	0.00E+00	0.00E+00	4.00E-03	0.00E+00	0.00E+00	4.00E-03
470	ALL		286750	4026850	NonCancer	0.00E+00	2.12E-04	8.87E-03	0.00E+00	0.00E+00	8.87E-03	2.12E-04	0.00E+00	2.12E-04	0.00E+00	0.00E+00	8.87E-03	0.00E+00	0.00E+00	8.87E-03
471	ALL		286850	4026850	NonCancer	0.00E+00	2.33E-04	9.77E-03	0.00E+00	0.00E+00	9.77E-03	2.33E-04	0.00E+00	2.33E-04	0.00E+00	0.00E+00	9.77E-03	0.00E+00	0.00E+00	9.77E-03
472	ALL		286950	4026850	NonCancer	0.00E+00	2.48E-04	1.04E-02	0.00E+00	0.00E+00	1.04E-02	2.48E-04	0.00E+00	2.48E-04	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	1.04E-02
473	ALL		287050	4026850	NonCancer	0.00E+00	2.13E-04	8.91E-03	0.00E+00	0.00E+00	8.91E-03	2.13E-04	0.00E+00	2.13E-04	0.00E+00	0.00E+00	8.91E-03	0.00E+00	0.00E+00	8.91E-03
474	ALL		287150	4026850	NonCancer	0.00E+00	2.22E-04	9.35E-03	0.00E+00	0.00E+00	9.35E-03	2.22E-04	0.00E+00	2.22E-04	0.00E+00	0.00E+00	9.35E-03	0.00E+00	0.00E+00	9.35E-03
475	ALL		287250	4026850	NonCancer	0.00E+00	2.36E-04	9.87E-03	0.00E+00	0.00E+00	9.87E-03	2.36E-04	0.00E+00	2.36E-04	0.00E+00	0.00E+00	9.87E-03	0.00E+00	0.00E+00	9.87E-03
476	ALL		287350	4026850	NonCancer	0.00E+00	2.42E-04	1.01E-02	0.00E+00	0.00E+00	1.01E-02	2.42E-04	0.00E+00	2.42E-04	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	1.01E-02
477	ALL		287450	4026850	NonCancer	0.00E+00	2.34E-04	9.81E-03	0.00E+00	0.00E+00	9.81E-03	2.34E-04	0.00E+00	2.34E-04	0.00E+00	0.00E+00	9.81E-03	0.00E+00	0.00E+00	9.81E-03

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
478	ALL		287650	4026850	NonCancer	0.00E+00	2.11E-04	8.80E-03	0.00E+00	0.00E+00	8.80E-03	2.11E-04	0.00E+00	2.11E-04	0.00E+00	0.00E+00	8.80E-03	0.00E+00	0.00E+00	8.80E-03
479	ALL		287750	4026850	NonCancer	0.00E+00	2.29E-04	1.04E-02	0.00E+00	0.00E+00	1.04E-02	2.29E-04	0.00E+00	2.29E-04	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	1.04E-02
480	ALL		287850	4026850	NonCancer	0.00E+00	2.55E-04	1.06E-02	0.00E+00	0.00E+00	1.06E-02	2.55E-04	0.00E+00	2.55E-04	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	1.06E-02
481	ALL		287950	4026850	NonCancer	0.00E+00	2.32E-04	9.67E-03	0.00E+00	0.00E+00	9.67E-03	2.32E-04	0.00E+00	2.32E-04	0.00E+00	0.00E+00	9.67E-03	0.00E+00	0.00E+00	9.67E-03
482	ALL		288050	4026850	NonCancer	0.00E+00	2.12E-04	8.76E-03	0.00E+00	0.00E+00	8.76E-03	2.12E-04	0.00E+00	2.12E-04	0.00E+00	0.00E+00	8.76E-03	0.00E+00	0.00E+00	8.76E-03
483	ALL		288150	4026850	NonCancer	0.00E+00	1.81E-04	7.68E-03	0.00E+00	0.00E+00	7.68E-03	1.81E-04	0.00E+00	1.81E-04	0.00E+00	0.00E+00	7.68E-03	0.00E+00	0.00E+00	7.68E-03
484	ALL		288250	4026850	NonCancer	0.00E+00	1.75E-04	7.25E-03	0.00E+00	0.00E+00	7.25E-03	1.75E-04	0.00E+00	1.75E-04	0.00E+00	0.00E+00	7.25E-03	0.00E+00	0.00E+00	7.25E-03
485	ALL		285150	4026950	NonCancer	0.00E+00	5.96E-05	2.48E-03	0.00E+00	0.00E+00	2.48E-03	5.96E-05	0.00E+00	5.96E-05	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	2.48E-03
486	ALL		285250	4026950	NonCancer	0.00E+00	6.29E-05	2.62E-03	0.00E+00	0.00E+00	2.62E-03	6.29E-05	0.00E+00	6.29E-05	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	2.62E-03
487	ALL		285350	4026950	NonCancer	0.00E+00	6.65E-05	2.77E-03	0.00E+00	0.00E+00	2.77E-03	6.65E-05	0.00E+00	6.65E-05	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00	2.77E-03
488	ALL		285450	4026950	NonCancer	0.00E+00	7.07E-05	2.95E-03	0.00E+00	0.00E+00	2.95E-03	7.07E-05	0.00E+00	7.07E-05	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	2.95E-03
489	ALL		285550	4026950	NonCancer	0.00E+00	7.55E-05	3.15E-03	0.00E+00	0.00E+00	3.15E-03	7.55E-05	0.00E+00	7.55E-05	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	3.15E-03
490	ALL		285650	4026950	NonCancer	0.00E+00	8.07E-05	3.36E-03	0.00E+00	0.00E+00	3.36E-03	8.07E-05	0.00E+00	8.07E-05	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	3.36E-03
491	ALL		285750	4026950	NonCancer	0.00E+00	8.55E-05	3.57E-03	0.00E+00	0.00E+00	3.57E-03	8.55E-05	0.00E+00	8.55E-05	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	3.57E-03
492	ALL		285850	4026950	NonCancer	0.00E+00	9.23E-05	3.85E-03	0.00E+00	0.00E+00	3.85E-03	9.23E-05	0.00E+00	9.23E-05	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00	3.85E-03
493	ALL		285950	4026950	NonCancer	0.00E+00	9.82E-05	4.10E-03	0.00E+00	0.00E+00	4.10E-03	9.82E-05	0.00E+00	9.82E-05	0.00E+00	0.00E+00	4.10E-03	0.00E+00	0.00E+00	4.10E-03
494	ALL		286050	4026950	NonCancer	0.00E+00	1.06E-04	4.43E-03	0.00E+00	0.00E+00	4.43E-03	1.06E-04	0.00E+00	1.06E-04	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	4.43E-03
495	ALL		286150	4026950	NonCancer	0.00E+00	1.14E-04	4.77E-03	0.00E+00	0.00E+00	4.77E-03	1.14E-04	0.00E+00	1.14E-04	0.00E+00	0.00E+00	4.77E-03	0.00E+00	0.00E+00	4.77E-03
496	ALL		286250	4026950	NonCancer	0.00E+00	1.24E-04	5.19E-03	0.00E+00	0.00E+00	5.19E-03	1.24E-04	0.00E+00	1.24E-04	0.00E+00	0.00E+00	5.19E-03	0.00E+00	0.00E+00	5.19E-03
497	ALL		286350	4026950	NonCancer	0.00E+00	1.35E-04	5.65E-03	0.00E+00	0.00E+00	5.65E-03	1.35E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00	5.65E-03	0.00E+00	0.00E+00	5.65E-03
498	ALL		286450	4026950	NonCancer	0.00E+00	1.47E-04	6.14E-03	0.00E+00	0.00E+00	6.14E-03	1.47E-04	0.00E+00	1.47E-04	0.00E+00	0.00E+00	6.14E-03	0.00E+00	0.00E+00	6.14E-03
499	ALL		286550	4026950	NonCancer	0.00E+00	1.60E-04	6.69E-03	0.00E+00	0.00E+00	6.69E-03	1.60E-04	0.00E+00	1.60E-04	0.00E+00	0.00E+00	6.69E-03	0.00E+00	0.00E+00	6.69E-03
500	ALL		286650	4026950	NonCancer	0.00E+00	1.75E-04	7.30E-03	0.00E+00	0.00E+00	7.30E-03	1.75E-04	0.00E+00	1.75E-04	0.00E+00	0.00E+00	7.30E-03	0.00E+00	0.00E+00	7.30E-03
501	ALL		286750	4026950	NonCancer	0.00E+00	1.90E-04	7.93E-03	0.00E+00	0.00E+00	7.93E-03	1.90E-04	0.00E+00	1.90E-04	0.00E+00	0.00E+00	7.93E-03	0.00E+00	0.00E+00	7.93E-03
502	ALL		286850	4026950	NonCancer	0.00E+00	2.05E-04	8.60E-03	0.00E+00	0.00E+00	8.60E-03	2.05E-04	0.00E+00	2.05E-04	0.00E+00	0.00E+00	8.60E-03	0.00E+00	0.00E+00	8.60E-03
503	ALL		286950	4026950	NonCancer	0.00E+00	1.71E-04	7.16E-03	0.00E+00	0.00E+00	7.16E-03	1.71E-04	0.00E+00	1.71E-04	0.00E+00	0.00E+00	7.16E-03	0.00E+00	0.00E+00	7.16E-03
504	ALL		287050	4026950	NonCancer	0.00E+00	1.82E-04	7.61E-03	0.00E+00	0.00E+00	7.61E-03	1.82E-04	0.00E+00	1.82E-04	0.00E+00	0.00E+00	7.61E-03	0.00E+00	0.00E+00	7.61E-03
505	ALL		287150	4026950	NonCancer	0.00E+00	1.92E-04	8.04E-03	0.00E+00	0.00E+00	8.04E-03	1.92E-04	0.00E+00	1.92E-04	0.00E+00	0.00E+00	8.04E-03	0.00E+00	0.00E+00	8.04E-03
506	ALL		287250	4026950	NonCancer	0.00E+00	1.97E-04	8.27E-03	0.00E+00	0.00E+00	8.27E-03	1.97E-04	0.00E+00	1.97E-04	0.00E+00	0.00E+00	8.27E-03	0.00E+00	0.00E+00	8.27E-03
507	ALL		287350	4026950	NonCancer	0.00E+00	2.01E-04	8.42E-03	0.00E+00	0.00E+00	8.42E-03	2.01E-04	0.00E+00	2.01E-04	0.00E+00	0.00E+00	8.42E-03	0.00E+00	0.00E+00	8.42E-03
508	ALL		287450	4026950	NonCancer	0.00E+00	1.96E-04	8.18E-03	0.00E+00	0.00E+00	8.18E-03	1.96E-04	0.00E+00	1.96E-04	0.00E+00	0.00E+00	8.18E-03	0.00E+00	0.00E+00	8.18E-03
509	ALL		287650	4026950	NonCancer	0.00E+00	1.81E-04	7.57E-03	0.00E+00	0.00E+00	7.57E-03	1.81E-04	0.00E+00	1.81E-04	0.00E+00	0.00E+00	7.57E-03	0.00E+00	0.00E+00	7.57E-03
510	ALL		287750	4026950	NonCancer	0.00E+00	1.71E-04	7.10E-03	0.00E+00	0.00E+00	7.10E-03	1.71E-04	0.00E+00	1.71E-04	0.00E+00	0.00E+00	7.10E-03	0.00E+00	0.00E+00	7.10E-03
511	ALL		287850	4026950	NonCancer	0.00E+00	2.23E-04	9.19E-03	0.00E+00	0.00E+00	9.19E-03	2.23E-04	0.00E+00	2.23E-04	0.00E+00	0.00E+00	9.19E-03	0.00E+00	0.00E+00	9.19E-03
512	ALL		287950	4026950	NonCancer	0.00E+00	2.08E-04	8.65E-03	0.00E+00	0.00E+00	8.65E-03	2.08E-04	0.00E+00	2.08E-04	0.00E+00	0.00E+00	8.65E-03	0.00E+00	0.00E+00	8.65E-03
513	ALL		288050	4026950	NonCancer	0.00E+00	1.90E-04	7.87E-03	0.00E+00	0.00E+00	7.87E-03	1.90E-04	0.00E+00	1.90E-04	0.00E+00	0.00E+00	7.87E-03	0.00E+00	0.00E+00	7.87E-03
514	ALL		288150	4026950	NonCancer	0.00E+00	1.75E-04	7.25E-03	0.00E+00	0.00E+00	7.25E-03	1.75E-04	0.00E+00	1.75E-04	0.00E+00	0.00E+00	7.25E-03	0.00E+00	0.00E+00	7.25E-03
515	ALL		288250	4026950	NonCancer	0.00E+00	1.54E-04	6.41E-03	0.00E+00	0.00E+00	6.41E-03	1.54E-04	0.00E+00	1.54E-04	0.00E+00	0.00E+00	6.41E-03	0.00E+00	0.00E+00	6.41E-03
516	ALL		285150	4027050	NonCancer	0.00E+00	5.83E-05	2.43E-03	0.00E+00	0.00E+00	2.43E-03	5.83E-05	0.00E+00	5.83E-05	0.00E+00	0.00E+00	2.43E-03	0.00E+00	0.00E+00	2.43E-03
517	ALL		285250	4027050	NonCancer	0.00E+00	6.17E-05	2.57E-03	0.00E+00	0.00E+00	2.57E-03	6.17E-05	0.00E+00	6.17E-05	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	2.57E-03
518	ALL		285350	4027050	NonCancer	0.00E+00	6.52E-05	2.72E-03	0.00E+00	0.00E+00	2.72E-03	6.52E-05	0.00E+00	6.52E-05	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	2.72E-03
519	ALL		285450	4027050	NonCancer	0.00E+00	6.90E-05	2.88E-03	0.00E+00	0.00E+00	2.88E-03	6.90E-05	0.00E+00	6.90E-05	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	2.88E-03
520	ALL		285550	4027050	NonCancer	0.00E+00	7.26E-05	3.03E-03	0.00E+00	0.00E+00	3.03E-03	7.26E-05	0.00E+00	7.26E-05	0.00E+00	0.00E+00	3.03E-03	0.00E+00	0.00E+00	3.03E-03
521	ALL		285650	4027050	NonCancer	0.00E+00	7.76E-05	3.24E-03	0.00E+00	0.00E+00	3.24E-03	7.76E-05	0.00E+00	7.76E-05	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	3.24E-03
522	ALL		285750	4027050	NonCancer	0.00E+00	8.33E-05	3.47E-03	0.00E+00	0.00E+00	3.47E-03	8.33E-05	0.00E+00	8.33E-05	0.00E+00	0.00E+00	3.47E-03	0.00E+00	0.00E+00	3.47E-03
523	ALL		285850	4027050	NonCancer	0.00E+00	8.81E-05	3.68E-03	0.00E+00	0.00E+00	3.68E-03	8.81E-05	0.00E+00	8.81E-05	0.00E+00	0.00E+00	3.68E-03	0.00E+00	0.00E+00	3.68E-03
524	ALL		285950	4027050	NonCancer	0.00E+00	9.38E-05	3.92E-03	0.00E+00	0.00E+00	3.92E-03	9.38E-05	0.00E+00	9.38E-05	0.00E+00	0.00E+00	3.92E-03	0.00E+00	0.00E+00	3.92E-03
525	ALL		286050	4027050	NonCancer	0.00E+00	1.01E-04	4.22E-03	0.00E+00	0.00E+00	4.22E-03	1.01E-04	0.00E+00	1.01E-04	0.00E+00	0.00E+00	4.22E-03	0.00E+00	0.00E+00	4.22E-03
526	ALL		286150	4027050	NonCancer	0.00E+00	1.08E-04	4.53E-03	0.00E+00	0.00E+00	4.53E-03	1.08E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00	4.53E-03	0.00E+00	0.00E+00	4.53E-03
527	ALL		286250	4027050	NonCancer	0.00E+00	1.18E-04	4.91E-03	0.00E+00	0.00E+00	4.91E-03	1.18E-04	0.00E+00	1.18E-04	0.00E+00	0.00E+00	4.91E-03	0.00E+00	0.00E+00	4.91E-03
528	ALL		286350	4027050	NonCancer	0.00E+00	1.26E-04	5.27E-03	0.00E+00	0.00E+00	5.27E-03	1.26E-04	0.00E+00	1.26E-04	0.00E+00	0.00E+00	5.27E-03	0.00E+00	0.00E+00	5.27E-03
529	ALL		286450	4027050	NonCancer	0.00E+00	1.36E-04	5.70E-03	0.00E+00	0.00E+00	5.70E-03	1.36E-04	0.00E+00	1.36E-04	0.00E+00	0.00E+00	5.70E-03	0.00E+00	0.00E+00	5.70E-03
530	ALL		286550	4027050	NonCancer	0.00E+00	1.47E-04	6.15E-03	0.00E+00	0.00E+00	6.15E-03	1.47E-04	0.00E+00	1.47E-04	0.00E+00	0.00E+00	6.15E-03	0.00E+00	0.00E+00	6.15E-03

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
531	ALL		286650	4027050	NonCancer	0.00E+00	1.59E-04	6.63E-03	0.00E+00	0.00E+00	6.63E-03	1.59E-04	0.00E+00	1.59E-04	0.00E+00	0.00E+00	6.63E-03	0.00E+00	0.00E+00	6.63E-03
532	ALL		286750	4027050	NonCancer	0.00E+00	1.71E-04	7.16E-03	0.00E+00	0.00E+00	7.16E-03	1.71E-04	0.00E+00	1.71E-04	0.00E+00	0.00E+00	7.16E-03	0.00E+00	0.00E+00	7.16E-03
533	ALL		286850	4027050	NonCancer	0.00E+00	1.73E-04	7.18E-03	0.00E+00	0.00E+00	7.18E-03	1.73E-04	0.00E+00	1.73E-04	0.00E+00	0.00E+00	7.18E-03	0.00E+00	0.00E+00	7.18E-03
534	ALL		286950	4027050	NonCancer	0.00E+00	1.49E-04	6.26E-03	0.00E+00	0.00E+00	6.26E-03	1.49E-04	0.00E+00	1.49E-04	0.00E+00	0.00E+00	6.26E-03	0.00E+00	0.00E+00	6.26E-03
535	ALL		287050	4027050	NonCancer	0.00E+00	1.58E-04	6.63E-03	0.00E+00	0.00E+00	6.63E-03	1.58E-04	0.00E+00	1.58E-04	0.00E+00	0.00E+00	6.63E-03	0.00E+00	0.00E+00	6.63E-03
536	ALL		287150	4027050	NonCancer	0.00E+00	1.65E-04	6.88E-03	0.00E+00	0.00E+00	6.88E-03	1.65E-04	0.00E+00	1.65E-04	0.00E+00	0.00E+00	6.88E-03	0.00E+00	0.00E+00	6.88E-03
537	ALL		287250	4027050	NonCancer	0.00E+00	1.69E-04	7.09E-03	0.00E+00	0.00E+00	7.09E-03	1.69E-04	0.00E+00	1.69E-04	0.00E+00	0.00E+00	7.09E-03	0.00E+00	0.00E+00	7.09E-03
538	ALL		287350	4027050	NonCancer	0.00E+00	1.71E-04	7.16E-03	0.00E+00	0.00E+00	7.16E-03	1.71E-04	0.00E+00	1.71E-04	0.00E+00	0.00E+00	7.16E-03	0.00E+00	0.00E+00	7.16E-03
539	ALL		287450	4027050	NonCancer	0.00E+00	1.66E-04	6.94E-03	0.00E+00	0.00E+00	6.94E-03	1.66E-04	0.00E+00	1.66E-04	0.00E+00	0.00E+00	6.94E-03	0.00E+00	0.00E+00	6.94E-03
540	ALL		287650	4027050	NonCancer	0.00E+00	1.55E-04	6.40E-03	0.00E+00	0.00E+00	6.40E-03	1.55E-04	0.00E+00	1.55E-04	0.00E+00	0.00E+00	6.40E-03	0.00E+00	0.00E+00	6.40E-03
541	ALL		287750	4027050	NonCancer	0.00E+00	1.46E-04	6.13E-03	0.00E+00	0.00E+00	6.13E-03	1.46E-04	0.00E+00	1.46E-04	0.00E+00	0.00E+00	6.13E-03	0.00E+00	0.00E+00	6.13E-03
542	ALL		287850	4027050	NonCancer	0.00E+00	1.60E-04	7.14E-03	0.00E+00	0.00E+00	7.14E-03	1.60E-04	0.00E+00	1.60E-04	0.00E+00	0.00E+00	7.14E-03	0.00E+00	0.00E+00	7.14E-03
543	ALL		287950	4027050	NonCancer	0.00E+00	1.80E-04	7.60E-03	0.00E+00	0.00E+00	7.60E-03	1.80E-04	0.00E+00	1.80E-04	0.00E+00	0.00E+00	7.60E-03	0.00E+00	0.00E+00	7.60E-03
544	ALL		288050	4027050	NonCancer	0.00E+00	1.73E-04	7.15E-03	0.00E+00	0.00E+00	7.15E-03	1.73E-04	0.00E+00	1.73E-04	0.00E+00	0.00E+00	7.15E-03	0.00E+00	0.00E+00	7.15E-03
545	ALL		288150	4027050	NonCancer	0.00E+00	1.60E-04	6.60E-03	0.00E+00	0.00E+00	6.60E-03	1.60E-04	0.00E+00	1.60E-04	0.00E+00	0.00E+00	6.60E-03	0.00E+00	0.00E+00	6.60E-03
546	ALL		288250	4027050	NonCancer	0.00E+00	1.49E-04	6.16E-03	0.00E+00	0.00E+00	6.16E-03	1.49E-04	0.00E+00	1.49E-04	0.00E+00	0.00E+00	6.16E-03	0.00E+00	0.00E+00	6.16E-03
547	ALL		285250	4027150	NonCancer	0.00E+00	5.97E-05	2.49E-03	0.00E+00	0.00E+00	2.49E-03	5.97E-05	0.00E+00	5.97E-05	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	2.49E-03
548	ALL		285350	4027150	NonCancer	0.00E+00	6.28E-05	2.62E-03	0.00E+00	0.00E+00	2.62E-03	6.28E-05	0.00E+00	6.28E-05	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	2.62E-03
549	ALL		285450	4027150	NonCancer	0.00E+00	6.64E-05	2.77E-03	0.00E+00	0.00E+00	2.77E-03	6.64E-05	0.00E+00	6.64E-05	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00	2.77E-03
550	ALL		285550	4027150	NonCancer	0.00E+00	7.12E-05	2.97E-03	0.00E+00	0.00E+00	2.97E-03	7.12E-05	0.00E+00	7.12E-05	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	2.97E-03
551	ALL		285650	4027150	NonCancer	0.00E+00	7.45E-05	3.10E-03	0.00E+00	0.00E+00	3.10E-03	7.45E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	3.10E-03
552	ALL		285750	4027150	NonCancer	0.00E+00	7.97E-05	3.32E-03	0.00E+00	0.00E+00	3.32E-03	7.97E-05	0.00E+00	7.97E-05	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	3.32E-03
553	ALL		285850	4027150	NonCancer	0.00E+00	8.39E-05	3.51E-03	0.00E+00	0.00E+00	3.51E-03	8.39E-05	0.00E+00	8.39E-05	0.00E+00	0.00E+00	3.51E-03	0.00E+00	0.00E+00	3.51E-03
554	ALL		285950	4027150	NonCancer	0.00E+00	9.05E-05	3.77E-03	0.00E+00	0.00E+00	3.77E-03	9.05E-05	0.00E+00	9.05E-05	0.00E+00	0.00E+00	3.77E-03	0.00E+00	0.00E+00	3.77E-03
555	ALL		286050	4027150	NonCancer	0.00E+00	9.67E-05	4.03E-03	0.00E+00	0.00E+00	4.03E-03	9.67E-05	0.00E+00	9.67E-05	0.00E+00	0.00E+00	4.03E-03	0.00E+00	0.00E+00	4.03E-03
556	ALL		286150	4027150	NonCancer	0.00E+00	1.03E-04	4.29E-03	0.00E+00	0.00E+00	4.29E-03	1.03E-04	0.00E+00	1.03E-04	0.00E+00	0.00E+00	4.29E-03	0.00E+00	0.00E+00	4.29E-03
557	ALL		286250	4027150	NonCancer	0.00E+00	1.11E-04	4.63E-03	0.00E+00	0.00E+00	4.63E-03	1.11E-04	0.00E+00	1.11E-04	0.00E+00	0.00E+00	4.63E-03	0.00E+00	0.00E+00	4.63E-03
558	ALL		286350	4027150	NonCancer	0.00E+00	1.18E-04	4.93E-03	0.00E+00	0.00E+00	4.93E-03	1.18E-04	0.00E+00	1.18E-04	0.00E+00	0.00E+00	4.93E-03	0.00E+00	0.00E+00	4.93E-03
559	ALL		286450	4027150	NonCancer	0.00E+00	1.27E-04	5.28E-03	0.00E+00	0.00E+00	5.28E-03	1.27E-04	0.00E+00	1.27E-04	0.00E+00	0.00E+00	5.28E-03	0.00E+00	0.00E+00	5.28E-03
560	ALL		286550	4027150	NonCancer	0.00E+00	1.35E-04	5.64E-03	0.00E+00	0.00E+00	5.64E-03	1.35E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00	5.64E-03	0.00E+00	0.00E+00	5.64E-03
561	ALL		286650	4027150	NonCancer	0.00E+00	1.45E-04	6.05E-03	0.00E+00	0.00E+00	6.05E-03	1.45E-04	0.00E+00	1.45E-04	0.00E+00	0.00E+00	6.05E-03	0.00E+00	0.00E+00	6.05E-03
562	ALL		286750	4027150	NonCancer	0.00E+00	1.54E-04	6.41E-03	0.00E+00	0.00E+00	6.41E-03	1.54E-04	0.00E+00	1.54E-04	0.00E+00	0.00E+00	6.41E-03	0.00E+00	0.00E+00	6.41E-03
563	ALL		286850	4027150	NonCancer	0.00E+00	1.26E-04	5.28E-03	0.00E+00	0.00E+00	5.28E-03	1.26E-04	0.00E+00	1.26E-04	0.00E+00	0.00E+00	5.28E-03	0.00E+00	0.00E+00	5.28E-03
564	ALL		286950	4027150	NonCancer	0.00E+00	1.33E-04	5.53E-03	0.00E+00	0.00E+00	5.53E-03	1.33E-04	0.00E+00	1.33E-04	0.00E+00	0.00E+00	5.53E-03	0.00E+00	0.00E+00	5.53E-03
565	ALL		287050	4027150	NonCancer	0.00E+00	1.35E-04	5.60E-03	0.00E+00	0.00E+00	5.60E-03	1.35E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00	5.60E-03	0.00E+00	0.00E+00	5.60E-03
566	ALL		287150	4027150	NonCancer	0.00E+00	1.44E-04	6.01E-03	0.00E+00	0.00E+00	6.01E-03	1.44E-04	0.00E+00	1.44E-04	0.00E+00	0.00E+00	6.01E-03	0.00E+00	0.00E+00	6.01E-03
567	ALL		287250	4027150	NonCancer	0.00E+00	1.46E-04	6.11E-03	0.00E+00	0.00E+00	6.11E-03	1.46E-04	0.00E+00	1.46E-04	0.00E+00	0.00E+00	6.11E-03	0.00E+00	0.00E+00	6.11E-03
568	ALL		287350	4027150	NonCancer	0.00E+00	1.48E-04	6.18E-03	0.00E+00	0.00E+00	6.18E-03	1.48E-04	0.00E+00	1.48E-04	0.00E+00	0.00E+00	6.18E-03	0.00E+00	0.00E+00	6.18E-03
569	ALL		287450	4027150	NonCancer	0.00E+00	1.45E-04	6.03E-03	0.00E+00	0.00E+00	6.03E-03	1.45E-04	0.00E+00	1.45E-04	0.00E+00	0.00E+00	6.03E-03	0.00E+00	0.00E+00	6.03E-03
570	ALL		287650	4027150	NonCancer	0.00E+00	1.38E-04	5.74E-03	0.00E+00	0.00E+00	5.74E-03	1.38E-04	0.00E+00	1.38E-04	0.00E+00	0.00E+00	5.74E-03	0.00E+00	0.00E+00	5.74E-03
571	ALL		287750	4027150	NonCancer	0.00E+00	1.31E-04	5.41E-03	0.00E+00	0.00E+00	5.41E-03	1.31E-04	0.00E+00	1.31E-04	0.00E+00	0.00E+00	5.41E-03	0.00E+00	0.00E+00	5.41E-03
572	ALL		287850	4027150	NonCancer	0.00E+00	1.26E-04	5.19E-03	0.00E+00	0.00E+00	5.19E-03	1.26E-04	0.00E+00	1.26E-04	0.00E+00	0.00E+00	5.19E-03	0.00E+00	0.00E+00	5.19E-03
573	ALL		287950	4027150	NonCancer	0.00E+00	1.65E-04	6.89E-03	0.00E+00	0.00E+00	6.89E-03	1.65E-04	0.00E+00	1.65E-04	0.00E+00	0.00E+00	6.89E-03	0.00E+00	0.00E+00	6.89E-03
574	ALL		288050	4027150	NonCancer	0.00E+00	1.56E-04	6.51E-03	0.00E+00	0.00E+00	6.51E-03	1.56E-04	0.00E+00	1.56E-04	0.00E+00	0.00E+00	6.51E-03	0.00E+00	0.00E+00	6.51E-03
575	ALL		288150	4027150	NonCancer	0.00E+00	1.45E-04	6.08E-03	0.00E+00	0.00E+00	6.08E-03	1.45E-04	0.00E+00	1.45E-04	0.00E+00	0.00E+00	6.08E-03	0.00E+00	0.00E+00	6.08E-03
576	ALL		288250	4027150	NonCancer	0.00E+00	1.36E-04	5.68E-03	0.00E+00	0.00E+00	5.68E-03	1.36E-04	0.00E+00	1.36E-04	0.00E+00	0.00E+00	5.68E-03	0.00E+00	0.00E+00	5.68E-03
577	ALL		285250	4027250	NonCancer	0.00E+00	5.76E-05	2.41E-03	0.00E+00	0.00E+00	2.41E-03	5.76E-05	0.00E+00	5.76E-05	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	2.41E-03
578	ALL		285350	4027250	NonCancer	0.00E+00	6.13E-05	2.56E-03	0.00E+00	0.00E+00	2.56E-03	6.13E-05	0.00E+00	6.13E-05	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	2.56E-03
579	ALL		285450	4027250	NonCancer	0.00E+00	6.45E-05	2.69E-03	0.00E+00	0.00E+00	2.69E-03	6.45E-05	0.00E+00	6.45E-05	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	2.69E-03
580	ALL		285550	4027250	NonCancer	0.00E+00	6.83E-05	2.85E-03	0.00E+00	0.00E+00	2.85E-03	6.83E-05	0.00E+00	6.83E-05	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	2.85E-03
581	ALL		285650	4027250	NonCancer	0.00E+00	7.16E-05	2.99E-03	0.00E+00	0.00E+00	2.99E-03	7.16E-05	0.00E+00	7.16E-05	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	2.99E-03
582	ALL		285750	4027250	NonCancer	0.00E+00	7.67E-05	3.20E-03	0.00E+00	0.00E+00	3.20E-03	7.67E-05	0.00E+00	7.67E-05	0.00E+00	0.00E+00	3.20E-03	0.00E+00	0.00E+00	3.20E-03
583	ALL		285850	4027250	NonCancer	0.00E+00	8.14E-05	3.40E-03	0.00E+00	0.00E+00	3.40E-03	8.14E-05	0.00E+00	8.14E-05	0.00E+00	0.00E+00	3.40E-03	0.00E+00	0.00E+00	3.40E-03

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
584	ALL		285950	4027250	NonCancer	0.00E+00	8.63E-05	3.60E-03	0.00E+00	0.00E+00	3.60E-03	8.63E-05	0.00E+00	8.63E-05	0.00E+00	0.00E+00	3.60E-03	0.00E+00	0.00E+00	3.60E-03
585	ALL		286050	4027250	NonCancer	0.00E+00	9.19E-05	3.84E-03	0.00E+00	0.00E+00	3.84E-03	9.19E-05	0.00E+00	9.19E-05	0.00E+00	0.00E+00	3.84E-03	0.00E+00	0.00E+00	3.84E-03
586	ALL		286150	4027250	NonCancer	0.00E+00	9.81E-05	4.09E-03	0.00E+00	0.00E+00	4.09E-03	9.81E-05	0.00E+00	9.81E-05	0.00E+00	0.00E+00	4.09E-03	0.00E+00	0.00E+00	4.09E-03
587	ALL		286250	4027250	NonCancer	0.00E+00	1.03E-04	4.32E-03	0.00E+00	0.00E+00	4.32E-03	1.03E-04	0.00E+00	1.03E-04	0.00E+00	0.00E+00	4.32E-03	0.00E+00	0.00E+00	4.32E-03
588	ALL		286350	4027250	NonCancer	0.00E+00	1.11E-04	4.62E-03	0.00E+00	0.00E+00	4.62E-03	1.11E-04	0.00E+00	1.11E-04	0.00E+00	0.00E+00	4.62E-03	0.00E+00	0.00E+00	4.62E-03
589	ALL		286450	4027250	NonCancer	0.00E+00	1.18E-04	4.93E-03	0.00E+00	0.00E+00	4.93E-03	1.18E-04	0.00E+00	1.18E-04	0.00E+00	0.00E+00	4.93E-03	0.00E+00	0.00E+00	4.93E-03
590	ALL		286550	4027250	NonCancer	0.00E+00	1.25E-04	5.21E-03	0.00E+00	0.00E+00	5.21E-03	1.25E-04	0.00E+00	1.25E-04	0.00E+00	0.00E+00	5.21E-03	0.00E+00	0.00E+00	5.21E-03
591	ALL		286650	4027250	NonCancer	0.00E+00	1.32E-04	5.54E-03	0.00E+00	0.00E+00	5.54E-03	1.32E-04	0.00E+00	1.32E-04	0.00E+00	0.00E+00	5.54E-03	0.00E+00	0.00E+00	5.54E-03
592	ALL		286750	4027250	NonCancer	0.00E+00	1.23E-04	5.14E-03	0.00E+00	0.00E+00	5.14E-03	1.23E-04	0.00E+00	1.23E-04	0.00E+00	0.00E+00	5.14E-03	0.00E+00	0.00E+00	5.14E-03
593	ALL		286850	4027250	NonCancer	0.00E+00	1.13E-04	4.74E-03	0.00E+00	0.00E+00	4.74E-03	1.13E-04	0.00E+00	1.13E-04	0.00E+00	0.00E+00	4.74E-03	0.00E+00	0.00E+00	4.74E-03
594	ALL		286950	4027250	NonCancer	0.00E+00	1.18E-04	4.94E-03	0.00E+00	0.00E+00	4.94E-03	1.18E-04	0.00E+00	1.18E-04	0.00E+00	0.00E+00	4.94E-03	0.00E+00	0.00E+00	4.94E-03
595	ALL		287050	4027250	NonCancer	0.00E+00	1.22E-04	5.12E-03	0.00E+00	0.00E+00	5.12E-03	1.22E-04	0.00E+00	1.22E-04	0.00E+00	0.00E+00	5.12E-03	0.00E+00	0.00E+00	5.12E-03
596	ALL		287150	4027250	NonCancer	0.00E+00	1.27E-04	5.30E-03	0.00E+00	0.00E+00	5.30E-03	1.27E-04	0.00E+00	1.27E-04	0.00E+00	0.00E+00	5.30E-03	0.00E+00	0.00E+00	5.30E-03
597	ALL		287250	4027250	NonCancer	0.00E+00	1.30E-04	5.40E-03	0.00E+00	0.00E+00	5.40E-03	1.30E-04	0.00E+00	1.30E-04	0.00E+00	0.00E+00	5.40E-03	0.00E+00	0.00E+00	5.40E-03
598	ALL		287350	4027250	NonCancer	0.00E+00	1.30E-04	5.41E-03	0.00E+00	0.00E+00	5.41E-03	1.30E-04	0.00E+00	1.30E-04	0.00E+00	0.00E+00	5.41E-03	0.00E+00	0.00E+00	5.41E-03
599	ALL		287450	4027250	NonCancer	0.00E+00	1.26E-04	5.26E-03	0.00E+00	0.00E+00	5.26E-03	1.26E-04	0.00E+00	1.26E-04	0.00E+00	0.00E+00	5.26E-03	0.00E+00	0.00E+00	5.26E-03
600	ALL		287650	4027250	NonCancer	0.00E+00	1.21E-04	5.06E-03	0.00E+00	0.00E+00	5.06E-03	1.21E-04	0.00E+00	1.21E-04	0.00E+00	0.00E+00	5.06E-03	0.00E+00	0.00E+00	5.06E-03
601	ALL		287750	4027250	NonCancer	0.00E+00	1.17E-04	4.88E-03	0.00E+00	0.00E+00	4.88E-03	1.17E-04	0.00E+00	1.17E-04	0.00E+00	0.00E+00	4.88E-03	0.00E+00	0.00E+00	4.88E-03
602	ALL		287850	4027250	NonCancer	0.00E+00	1.13E-04	4.70E-03	0.00E+00	0.00E+00	4.70E-03	1.13E-04	0.00E+00	1.13E-04	0.00E+00	0.00E+00	4.70E-03	0.00E+00	0.00E+00	4.70E-03
603	ALL		287950	4027250	NonCancer	0.00E+00	1.19E-04	5.25E-03	0.00E+00	0.00E+00	5.25E-03	1.19E-04	0.00E+00	1.19E-04	0.00E+00	0.00E+00	5.25E-03	0.00E+00	0.00E+00	5.25E-03
604	ALL		288050	4027250	NonCancer	0.00E+00	1.40E-04	5.79E-03	0.00E+00	0.00E+00	5.79E-03	1.40E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00	5.79E-03	0.00E+00	0.00E+00	5.79E-03
605	ALL		288150	4027250	NonCancer	0.00E+00	1.35E-04	5.61E-03	0.00E+00	0.00E+00	5.61E-03	1.35E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00	5.61E-03	0.00E+00	0.00E+00	5.61E-03
606	ALL		285350	4027350	NonCancer	0.00E+00	5.94E-05	2.48E-03	0.00E+00	0.00E+00	2.48E-03	5.94E-05	0.00E+00	5.94E-05	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	2.48E-03
607	ALL		285450	4027350	NonCancer	0.00E+00	6.29E-05	2.62E-03	0.00E+00	0.00E+00	2.62E-03	6.29E-05	0.00E+00	6.29E-05	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	2.62E-03
608	ALL		285550	4027350	NonCancer	0.00E+00	6.52E-05	2.73E-03	0.00E+00	0.00E+00	2.73E-03	6.52E-05	0.00E+00	6.52E-05	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	2.73E-03
609	ALL		285650	4027350	NonCancer	0.00E+00	6.99E-05	2.91E-03	0.00E+00	0.00E+00	2.91E-03	6.99E-05	0.00E+00	6.99E-05	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	2.91E-03
610	ALL		285750	4027350	NonCancer	0.00E+00	7.29E-05	3.05E-03	0.00E+00	0.00E+00	3.05E-03	7.29E-05	0.00E+00	7.29E-05	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	3.05E-03
611	ALL		285850	4027350	NonCancer	0.00E+00	7.74E-05	3.23E-03	0.00E+00	0.00E+00	3.23E-03	7.74E-05	0.00E+00	7.74E-05	0.00E+00	0.00E+00	3.23E-03	0.00E+00	0.00E+00	3.23E-03
612	ALL		285950	4027350	NonCancer	0.00E+00	8.23E-05	3.43E-03	0.00E+00	0.00E+00	3.43E-03	8.23E-05	0.00E+00	8.23E-05	0.00E+00	0.00E+00	3.43E-03	0.00E+00	0.00E+00	3.43E-03
613	ALL		286050	4027350	NonCancer	0.00E+00	8.71E-05	3.63E-03	0.00E+00	0.00E+00	3.63E-03	8.71E-05	0.00E+00	8.71E-05	0.00E+00	0.00E+00	3.63E-03	0.00E+00	0.00E+00	3.63E-03
614	ALL		286150	4027350	NonCancer	0.00E+00	9.15E-05	3.83E-03	0.00E+00	0.00E+00	3.83E-03	9.15E-05	0.00E+00	9.15E-05	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	3.83E-03
615	ALL		286250	4027350	NonCancer	0.00E+00	9.81E-05	4.09E-03	0.00E+00	0.00E+00	4.09E-03	9.81E-05	0.00E+00	9.81E-05	0.00E+00	0.00E+00	4.09E-03	0.00E+00	0.00E+00	4.09E-03
616	ALL		286350	4027350	NonCancer	0.00E+00	1.03E-04	4.32E-03	0.00E+00	0.00E+00	4.32E-03	1.03E-04	0.00E+00	1.03E-04	0.00E+00	0.00E+00	4.32E-03	0.00E+00	0.00E+00	4.32E-03
617	ALL		286450	4027350	NonCancer	0.00E+00	1.09E-04	4.56E-03	0.00E+00	0.00E+00	4.56E-03	1.09E-04	0.00E+00	1.09E-04	0.00E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	4.56E-03
618	ALL		286550	4027350	NonCancer	0.00E+00	1.15E-04	4.82E-03	0.00E+00	0.00E+00	4.82E-03	1.15E-04	0.00E+00	1.15E-04	0.00E+00	0.00E+00	4.82E-03	0.00E+00	0.00E+00	4.82E-03
619	ALL		286650	4027350	NonCancer	0.00E+00	1.19E-04	4.96E-03	0.00E+00	0.00E+00	4.96E-03	1.19E-04	0.00E+00	1.19E-04	0.00E+00	0.00E+00	4.96E-03	0.00E+00	0.00E+00	4.96E-03
620	ALL		286750	4027350	NonCancer	0.00E+00	9.81E-05	4.10E-03	0.00E+00	0.00E+00	4.10E-03	9.81E-05	0.00E+00	9.81E-05	0.00E+00	0.00E+00	4.10E-03	0.00E+00	0.00E+00	4.10E-03
621	ALL		286850	4027350	NonCancer	0.00E+00	1.03E-04	4.28E-03	0.00E+00	0.00E+00	4.28E-03	1.03E-04	0.00E+00	1.03E-04	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	4.28E-03
622	ALL		286950	4027350	NonCancer	0.00E+00	1.07E-04	4.46E-03	0.00E+00	0.00E+00	4.46E-03	1.07E-04	0.00E+00	1.07E-04	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	4.46E-03
623	ALL		287050	4027350	NonCancer	0.00E+00	1.10E-04	4.59E-03	0.00E+00	0.00E+00	4.59E-03	1.10E-04	0.00E+00	1.10E-04	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	4.59E-03
624	ALL		287150	4027350	NonCancer	0.00E+00	1.13E-04	4.73E-03	0.00E+00	0.00E+00	4.73E-03	1.13E-04	0.00E+00	1.13E-04	0.00E+00	0.00E+00	4.73E-03	0.00E+00	0.00E+00	4.73E-03
625	ALL		287250	4027350	NonCancer	0.00E+00	1.14E-04	4.76E-03	0.00E+00	0.00E+00	4.76E-03	1.14E-04	0.00E+00	1.14E-04	0.00E+00	0.00E+00	4.76E-03	0.00E+00	0.00E+00	4.76E-03
626	ALL		287350	4027350	NonCancer	0.00E+00	1.15E-04	4.79E-03	0.00E+00	0.00E+00	4.79E-03	1.15E-04	0.00E+00	1.15E-04	0.00E+00	0.00E+00	4.79E-03	0.00E+00	0.00E+00	4.79E-03
627	ALL		287450	4027350	NonCancer	0.00E+00	1.13E-04	4.69E-03	0.00E+00	0.00E+00	4.69E-03	1.13E-04	0.00E+00	1.13E-04	0.00E+00	0.00E+00	4.69E-03	0.00E+00	0.00E+00	4.69E-03
628	ALL		287650	4027350	NonCancer	0.00E+00	1.08E-04	4.52E-03	0.00E+00	0.00E+00	4.52E-03	1.08E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00	4.52E-03	0.00E+00	0.00E+00	4.52E-03
629	ALL		287750	4027350	NonCancer	0.00E+00	1.02E-04	4.27E-03	0.00E+00	0.00E+00	4.27E-03	1.02E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00	4.27E-03	0.00E+00	0.00E+00	4.27E-03
630	ALL		287850	4027350	NonCancer	0.00E+00	9.74E-05	4.09E-03	0.00E+00	0.00E+00	4.09E-03	9.74E-05	0.00E+00	9.74E-05	0.00E+00	0.00E+00	4.09E-03	0.00E+00	0.00E+00	4.09E-03
631	ALL		287950	4027350	NonCancer	0.00E+00	9.73E-05	4.01E-03	0.00E+00	0.00E+00	4.01E-03	9.73E-05	0.00E+00	9.73E-05	0.00E+00	0.00E+00	4.01E-03	0.00E+00	0.00E+00	4.01E-03
632	ALL		288050	4027350	NonCancer	0.00E+00	1.25E-04	5.33E-03	0.00E+00	0.00E+00	5.33E-03	1.25E-04	0.00E+00	1.25E-04	0.00E+00	0.00E+00	5.33E-03	0.00E+00	0.00E+00	5.33E-03
633	ALL		285350	4027450	NonCancer	0.00E+00	5.74E-05	2.39E-03	0.00E+00	0.00E+00	2.39E-03	5.74E-05	0.00E+00	5.74E-05	0.00E+00	0.00E+00	2.39E-03	0.00E+00	0.00E+00	2.39E-03
634	ALL		285450	4027450	NonCancer	0.00E+00	6.09E-05	2.53E-03	0.00E+00	0.00E+00	2.53E-03	6.09E-05	0.00E+00	6.09E-05	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	2.53E-03
635	ALL		285550	4027450	NonCancer	0.00E+00	6.31E-05	2.64E-03	0.00E+00	0.00E+00	2.64E-03	6.31E-05	0.00E+00	6.31E-05	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	2.64E-03
636	ALL		285650	4027450	NonCancer	0.00E+00	6.73E-05	2.80E-03	0.00E+00	0.00E+00	2.80E-03	6.73E-05	0.00E+00	6.73E-05	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	2.80E-03

*HARP - HRACalc v22118 10/25/2023 9:20:49 AM - Acute Risk - Input File: F:\Jobs\41150039\HARP\SHIRK_AND_RIGGIN_OPHRA\hra\OpHRA_ACUTEHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
637	ALL		285750	4027450	NonCancer	0.00E+00	7.05E-05	2.94E-03	0.00E+00	0.00E+00	2.94E-03	7.05E-05	0.00E+00	7.05E-05	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	2.94E-03
638	ALL		285850	4027450	NonCancer	0.00E+00	7.34E-05	3.07E-03	0.00E+00	0.00E+00	3.07E-03	7.34E-05	0.00E+00	7.34E-05	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	3.07E-03
639	ALL		285950	4027450	NonCancer	0.00E+00	7.78E-05	3.25E-03	0.00E+00	0.00E+00	3.25E-03	7.78E-05	0.00E+00	7.78E-05	0.00E+00	0.00E+00	3.25E-03	0.00E+00	0.00E+00	3.25E-03
640	ALL		286050	4027450	NonCancer	0.00E+00	8.20E-05	3.43E-03	0.00E+00	0.00E+00	3.43E-03	8.20E-05	0.00E+00	8.20E-05	0.00E+00	0.00E+00	3.43E-03	0.00E+00	0.00E+00	3.43E-03
641	ALL		286150	4027450	NonCancer	0.00E+00	8.73E-05	3.65E-03	0.00E+00	0.00E+00	3.65E-03	8.73E-05	0.00E+00	8.73E-05	0.00E+00	0.00E+00	3.65E-03	0.00E+00	0.00E+00	3.65E-03
642	ALL		286250	4027450	NonCancer	0.00E+00	9.20E-05	3.83E-03	0.00E+00	0.00E+00	3.83E-03	9.20E-05	0.00E+00	9.20E-05	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	3.83E-03
643	ALL		286350	4027450	NonCancer	0.00E+00	9.69E-05	4.04E-03	0.00E+00	0.00E+00	4.04E-03	9.69E-05	0.00E+00	9.69E-05	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	4.04E-03
644	ALL		286450	4027450	NonCancer	0.00E+00	1.01E-04	4.24E-03	0.00E+00	0.00E+00	4.24E-03	1.01E-04	0.00E+00	1.01E-04	0.00E+00	0.00E+00	4.24E-03	0.00E+00	0.00E+00	4.24E-03
645	ALL		286550	4027450	NonCancer	0.00E+00	1.06E-04	4.44E-03	0.00E+00	0.00E+00	4.44E-03	1.06E-04	0.00E+00	1.06E-04	0.00E+00	0.00E+00	4.44E-03	0.00E+00	0.00E+00	4.44E-03
646	ALL		286650	4027450	NonCancer	0.00E+00	8.94E-05	3.79E-03	0.00E+00	0.00E+00	3.79E-03	8.94E-05	0.00E+00	8.94E-05	0.00E+00	0.00E+00	3.79E-03	0.00E+00	0.00E+00	3.79E-03
647	ALL		286750	4027450	NonCancer	0.00E+00	9.00E-05	3.75E-03	0.00E+00	0.00E+00	3.75E-03	9.00E-05	0.00E+00	9.00E-05	0.00E+00	0.00E+00	3.75E-03	0.00E+00	0.00E+00	3.75E-03
648	ALL		286850	4027450	NonCancer	0.00E+00	9.33E-05	3.89E-03	0.00E+00	0.00E+00	3.89E-03	9.33E-05	0.00E+00	9.33E-05	0.00E+00	0.00E+00	3.89E-03	0.00E+00	0.00E+00	3.89E-03
649	ALL		286950	4027450	NonCancer	0.00E+00	9.36E-05	3.88E-03	0.00E+00	0.00E+00	3.88E-03	9.36E-05	0.00E+00	9.36E-05	0.00E+00	0.00E+00	3.88E-03	0.00E+00	0.00E+00	3.88E-03
650	ALL		287050	4027450	NonCancer	0.00E+00	9.94E-05	4.14E-03	0.00E+00	0.00E+00	4.14E-03	9.94E-05	0.00E+00	9.94E-05	0.00E+00	0.00E+00	4.14E-03	0.00E+00	0.00E+00	4.14E-03
651	ALL		287150	4027450	NonCancer	0.00E+00	1.01E-04	4.21E-03	0.00E+00	0.00E+00	4.21E-03	1.01E-04	0.00E+00	1.01E-04	0.00E+00	0.00E+00	4.21E-03	0.00E+00	0.00E+00	4.21E-03
652	ALL		287250	4027450	NonCancer	0.00E+00	1.03E-04	4.28E-03	0.00E+00	0.00E+00	4.28E-03	1.03E-04	0.00E+00	1.03E-04	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	4.28E-03
653	ALL		287350	4027450	NonCancer	0.00E+00	1.03E-04	4.29E-03	0.00E+00	0.00E+00	4.29E-03	1.03E-04	0.00E+00	1.03E-04	0.00E+00	0.00E+00	4.29E-03	0.00E+00	0.00E+00	4.29E-03
654	ALL		287450	4027450	NonCancer	0.00E+00	1.01E-04	4.20E-03	0.00E+00	0.00E+00	4.20E-03	1.01E-04	0.00E+00	1.01E-04	0.00E+00	0.00E+00	4.20E-03	0.00E+00	0.00E+00	4.20E-03
655	ALL		285450	4027550	NonCancer	0.00E+00	5.87E-05	2.44E-03	0.00E+00	0.00E+00	2.44E-03	5.87E-05	0.00E+00	5.87E-05	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	2.44E-03
656	ALL		285550	4027550	NonCancer	0.00E+00	6.09E-05	2.55E-03	0.00E+00	0.00E+00	2.55E-03	6.09E-05	0.00E+00	6.09E-05	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	2.55E-03
657	ALL		285650	4027550	NonCancer	0.00E+00	6.45E-05	2.69E-03	0.00E+00	0.00E+00	2.69E-03	6.45E-05	0.00E+00	6.45E-05	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	2.69E-03
658	ALL		285750	4027550	NonCancer	0.00E+00	6.75E-05	2.82E-03	0.00E+00	0.00E+00	2.82E-03	6.75E-05	0.00E+00	6.75E-05	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	2.82E-03
659	ALL		285850	4027550	NonCancer	0.00E+00	7.07E-05	2.96E-03	0.00E+00	0.00E+00	2.96E-03	7.07E-05	0.00E+00	7.07E-05	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	2.96E-03
660	ALL		285950	4027550	NonCancer	0.00E+00	7.42E-05	3.10E-03	0.00E+00	0.00E+00	3.10E-03	7.42E-05	0.00E+00	7.42E-05	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	3.10E-03
661	ALL		286050	4027550	NonCancer	0.00E+00	7.82E-05	3.27E-03	0.00E+00	0.00E+00	3.27E-03	7.82E-05	0.00E+00	7.82E-05	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	3.27E-03
662	ALL		286150	4027550	NonCancer	0.00E+00	8.27E-05	3.45E-03	0.00E+00	0.00E+00	3.45E-03	8.27E-05	0.00E+00	8.27E-05	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	3.45E-03
663	ALL		286250	4027550	NonCancer	0.00E+00	8.61E-05	3.59E-03	0.00E+00	0.00E+00	3.59E-03	8.61E-05	0.00E+00	8.61E-05	0.00E+00	0.00E+00	3.59E-03	0.00E+00	0.00E+00	3.59E-03
664	ALL		286350	4027550	NonCancer	0.00E+00	9.09E-05	3.79E-03	0.00E+00	0.00E+00	3.79E-03	9.09E-05	0.00E+00	9.09E-05	0.00E+00	0.00E+00	3.79E-03	0.00E+00	0.00E+00	3.79E-03
665	ALL		286450	4027550	NonCancer	0.00E+00	9.43E-05	3.95E-03	0.00E+00	0.00E+00	3.95E-03	9.43E-05	0.00E+00	9.43E-05	0.00E+00	0.00E+00	3.95E-03	0.00E+00	0.00E+00	3.95E-03
666	ALL		286550	4027550	NonCancer	0.00E+00	9.53E-05	3.96E-03	0.00E+00	0.00E+00	3.96E-03	9.53E-05	0.00E+00	9.53E-05	0.00E+00	0.00E+00	3.96E-03	0.00E+00	0.00E+00	3.96E-03
667	ALL		286650	4027550	NonCancer	0.00E+00	7.93E-05	3.32E-03	0.00E+00	0.00E+00	3.32E-03	7.93E-05	0.00E+00	7.93E-05	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	3.32E-03
668	ALL		286750	4027550	NonCancer	0.00E+00	8.24E-05	3.43E-03	0.00E+00	0.00E+00	3.43E-03	8.24E-05	0.00E+00	8.24E-05	0.00E+00	0.00E+00	3.43E-03	0.00E+00	0.00E+00	3.43E-03
669	ALL		286850	4027550	NonCancer	0.00E+00	8.54E-05	3.56E-03	0.00E+00	0.00E+00	3.56E-03	8.54E-05	0.00E+00	8.54E-05	0.00E+00	0.00E+00	3.56E-03	0.00E+00	0.00E+00	3.56E-03
670	ALL		286950	4027550	NonCancer	0.00E+00	8.50E-05	3.60E-03	0.00E+00	0.00E+00	3.60E-03	8.50E-05	0.00E+00	8.50E-05	0.00E+00	0.00E+00	3.60E-03	0.00E+00	0.00E+00	3.60E-03
671	ALL		287050	4027550	NonCancer	0.00E+00	9.00E-05	3.75E-03	0.00E+00	0.00E+00	3.75E-03	9.00E-05	0.00E+00	9.00E-05	0.00E+00	0.00E+00	3.75E-03	0.00E+00	0.00E+00	3.75E-03
672	ALL		287150	4027550	NonCancer	0.00E+00	9.06E-05	3.78E-03	0.00E+00	0.00E+00	3.78E-03	9.06E-05	0.00E+00	9.06E-05	0.00E+00	0.00E+00	3.78E-03	0.00E+00	0.00E+00	3.78E-03
673	ALL		287250	4027550	NonCancer	0.00E+00	9.23E-05	3.85E-03	0.00E+00	0.00E+00	3.85E-03	9.23E-05	0.00E+00	9.23E-05	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00	3.85E-03
674	ALL		287350	4027550	NonCancer	0.00E+00	9.31E-05	3.88E-03	0.00E+00	0.00E+00	3.88E-03	9.31E-05	0.00E+00	9.31E-05	0.00E+00	0.00E+00	3.88E-03	0.00E+00	0.00E+00	3.88E-03
675	ALL		287450	4027550	NonCancer	0.00E+00	9.09E-05	3.78E-03	0.00E+00	0.00E+00	3.78E-03	9.09E-05	0.00E+00	9.09E-05	0.00E+00	0.00E+00	3.78E-03	0.00E+00	0.00E+00	3.78E-03
676	ALL		285650	4027650	NonCancer	0.00E+00	6.19E-05	2.58E-03	0.00E+00	0.00E+00	2.58E-03	6.19E-05	0.00E+00	6.19E-05	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	2.58E-03
677	ALL		285750	4027650	NonCancer	0.00E+00	6.49E-05	2.71E-03	0.00E+00	0.00E+00	2.71E-03	6.49E-05	0.00E+00	6.49E-05	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	2.71E-03
678	ALL		285850	4027650	NonCancer	0.00E+00	6.75E-05	2.83E-03	0.00E+00	0.00E+00	2.83E-03	6.75E-05	0.00E+00	6.75E-05	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	2.83E-03
679	ALL		285950	4027650	NonCancer	0.00E+00	7.05E-05	2.95E-03	0.00E+00	0.00E+00	2.95E-03	7.05E-05	0.00E+00	7.05E-05	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	2.95E-03
680	ALL		286050	4027650	NonCancer	0.00E+00	7.41E-05	3.10E-03	0.00E+00	0.00E+00	3.10E-03	7.41E-05	0.00E+00	7.41E-05	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	3.10E-03
681	ALL		286150	4027650	NonCancer	0.00E+00	7.77E-05	3.24E-03	0.00E+00	0.00E+00	3.24E-03	7.77E-05	0.00E+00	7.77E-05	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	3.24E-03
682	ALL		286250	4027650	NonCancer	0.00E+00	8.14E-05	3.39E-03	0.00E+00	0.00E+00	3.39E-03	8.14E-05	0.00E+00	8.14E-05	0.00E+00	0.00E+00	3.39E-03	0.00E+00	0.00E+00	3.39E-03
683	ALL		286350	4027650	NonCancer	0.00E+00	8.50E-05	3.55E-03	0.00E+00	0.00E+00	3.55E-03	8.50E-05	0.00E+00	8.50E-05	0.00E+00	0.00E+00	3.55E-03	0.00E+00	0.00E+00	3.55E-03
684	ALL		286450	4027650	NonCancer	0.00E+00	8.76E-05	3.64E-03	0.00E+00	0.00E+00	3.64E-03	8.76E-05	0.00E+00	8.76E-05	0.00E+00	0.00E+00	3.64E-03	0.00E+00	0.00E+00	3.64E-03
685	ALL		286550	4027650	NonCancer	0.00E+00	7.10E-05	2.96E-03	0.00E+00	0.00E+00	2.96E-03	7.10E-05	0.00E+00	7.10E-05	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	2.96E-03
686	ALL		286650	4027650	NonCancer	0.00E+00	7.37E-05	3.07E-03	0.00E+00	0.00E+00	3.07E-03	7.37E-05	0.00E+00	7.37E-05	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	3.07E-03
687	ALL		286750	4027650	NonCancer	0.00E+00	7.61E-05	3.17E-03	0.00E+00	0.00E+00	3.17E-03	7.61E-05	0.00E+00	7.61E-05	0.00E+00	0.00E+00	3.17E-03	0.00E+00	0.00E+00	3.17E-03
688	ALL		286850	4027650	NonCancer	0.00E+00	7.85E-05	3.28E-03	0.00E+00	0.00E+00	3.28E-03	7.85E-05	0.00E+00	7.85E-05	0.00E+00	0.00E+00	3.28E-03	0.00E+00	0.00E+00	3.28E-03
689	ALL		286950	4027650	NonCancer	0.00E+00	8.08E-05	3.36E-03	0.00E+00	0.00E+00	3.36E-03	8.08E-05	0.00E+00	8.08E-05	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	3.36E-03

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Appendix C:
Additional Air Quality and Greenhouse Gas Emissions Supporting Information

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Appendix C: Additional Air Quality and Greenhouse Gas Emissions Supporting Information

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4115.0039 Shirk & Riggin Industrial Park Project CalEEMod Notes

Note 1. Land uses and sizes associated with development of the proposed project are drawn from the Ware Malcomb conceptual site plan for Kelsey Street, Visalia, CA, dated March 29, 2022. Land uses utilized in the model represent the following:

Project Phase 1:

Industrial > unrefrigerated warehouse no-rail > 1,864.7 x 1000sqft = 1,864,700 square feet of tilt-up warehouse space and shown as buildings 1 and 2.

Parking > Parking Lot > 75.19 acres = parking lot areas and paved surfaces

Project Phase 2:

Industrial > unrefrigerated warehouse no-rail > 317.5 x 1000sqft = 317,500 square feet of tilt-up warehouse space and shown as buildings 3 and 4.

Industrial > Industrial Park > 513.24 x 1000sqft = 513,240 square feet of industrial park space shown as building 7

Recreation > Fast Food Restaurant with Drive Thru > 4.74 x 1000sqft = 4,740 square feet of drive thru restaurant space

Retail > Convenience Market with Gas Pumps > 7.92 x 1000 sqft = 7,922 square feet of convenience store, gas station, and car wash space

Parking > Parking Lot > 46.64 acres = remaining parking lot areas and paved surfaces on the project site

Project Phase 3:

Industrial > Industrial Park > 779.3 x 1000sqft = 779,300 square feet of industrial park space shown as buildings 5, 6, 8, and flex industrial.

Industrial > unrefrigerated warehouse no-rail > 133.8 x 1000sqft = 133,800 square feet of self storage space

Parking > Other Non-Asphalt Surfaces > 31.30 acres = bioretention basins

Recreational > City Park = 30.69 acres of landscaping.

Off-site Improvements

Parking > Parking Lot > 13.77 acres = off-site roadway improvements and paving activity

Note 2. According to Applicant-provided information, dated September 2, 2022, project construction would follow this schedule:

- Phase I: 3/14/2024 to 3/14/2025
- Phase II: 9/12/2025 to 9/12/2026
- Phase III: 3/13/2027 to 3/12/2028
- 12 month duration for each phase

For concurrent worst-case construction, all three phases would be constructed from 3/14/2024 to 3/14/2025.

CalEEMod default construction activities and durations were adjusted to reflect this anticipated schedule.

The construction of off-site improvements were assumed to be started at the beginning of the construction schedule. CalEEMod default phases lengths for paving and architectural coating were utilized to present a conservative analysis.

Based on project applicant information, demolition, site preparation, and grading could occur across the entire project site starting during the first phase of construction. In order to account for demolition, site preparation, and grading across the entire 240-acre site, the Demolition, Site Preparation, and Grading phases were modeled separately from building construction in the Demolition, Site Preparation, and Grading Only CalEEMod run. During this modeling run, demolition of existing structures would occur, the entire project site would be graded, any soil import/export would occur, and CalEEMod default phase lengths and equipment were utilized to present a conservative analysis.

Note 3. Based on the default construction models, the default construction equipment quantity and operating hours for building construction activities in each project phase were adjusted to retain the default horsepower hours with the default construction schedule. See the Horsepower Hour Conservation sheets and the default construction models included in Appendix A.

Note 4. According to project applicant provided information, during the site preparation and grading phase 130,000 cubic yards of soil would be imported.

During the demolition phase the proposed project would remove approximately 1,065 square feet of existing structures and outbuildings that were previously used for agricultural activities. The demolition of these structures would generate approximately 49 tons of debris.

Note 5. During the proposed project construction model, all operational emission sources were reduced to zero to separate modeled construction emissions from operational emission results. During the proposed project operational models, all construction emission sources were reduced to zero to separate modeled construction and operational emission results.

Note 6. The Nonresidential interior and exterior VOC content was adjusted to reflect requirements under Valley Air District Rule 4601 which requires building architectural coating contain a maximum of 50 grams per Liter of VOC.

Note 7. Kimley-Horn and Associates updated Trip Generation table for the proposed project, dated September 2023, that analyzes the trip generation rates for the proposed project. As contained therein, the operational trips were modeled with EFMAC. Please refer to Appendix A for detailed assumptions and calcuations.

The Passenger Vehicles are represented as the following vehicle classes: LDA, LDT1, LDT2, and MDV, whereas the trucks are represented as HHD. All other vehicle classes were reduced to 0 and the proportions were reallocated appropriately. Please refer to Appendix A for more detailed information.

Note 8. As unmitigated construction emissions during construction of the proposed project would exceed the SJVAPCD's annual thresholds of 10 tons per year for emissions of nitrogen oxides (NO_X), MM AIR-2a was applied to the MITIGATED model for construction of all phases of the proposed project.

MM AIR-2a would require the project applicant, prior to the issuance of grading or building permits, provide documentation to the City demonstrating the following:

- For all construction equipment and vehicles used during project construction that are equal to or greater than 50 horsepower, the contractor shall use construction equipment and vehicles that meet the United States Environmental Protection Agency (EPA) Tier 4 Final engine standards;
- For all construction equipment and vehicles used during project construction that are less than 50 horsepower, the contractor shall use electric construction equipment and vehicles to the extent feasible, with the exception of handheld generator sets; and
- All handheld generator sets shall be limited to 5 horsepower and shall only be used to power handheld power tools.

As unmitigated construction emissions during construction of the proposed project would exceed the SJVAPCD's annual thresholds of 10 tons per year for emissions of reactive organic gases (ROG), MM AIR-2b was applied to the MITIGATED model for construction of all phases of the proposed project.

MM AIR-2b would require the project applicant, prior to the issuance of grading or building permits, provide documentation to the City demonstrating the following:

Prior to issuance of a construction permit, the project sponsors shall submit to the City of Visalia construction contracts and/or subcontracts showing that all architectural coating material would not exceed 10 grams of VOC per liter of coating.

Note 9. The operational area emissions are estimated in the Passenger Vehicles + Area modeling files.

Note 10. The Construction Localized Significance Threshold modeling files analyzed the maximum possible distance that could occur on-site during construction, which is 1.1 miles. This distance was determined by measuring from the northwest corner of the site to the southeast corner of the site, which would be the longest, most direct route a construction vehicle would travel. See Appendix C for measurement of on-site distance.

The Operational Localized Significance Threshold modeling files analyzed the maximum possible distance that a vehicle could travel on-site during operation, which is 2.8 miles. This distance was determined by measuring from the northwest corner of the site to the southeast corner of the site along proposed project site roadways, which would be the longest, most direct route a vehicle would travel. See Appendix C for measurement of on-site distance.

In the Trucks Only Operational Localized Significance Threshold modeling file, the other land use trip rates and operational Area rates were reduced to zero because those rates are accounted for in the Passenger Vehicles and Area Only file.

The Operational Localized Significance Threshold modeling files includes the entire development, excluding off-site improvements, rather than each phases' daily emissions in order to show maximum on-site daily emissions of the entire project.

Demolition Debris Calculations

Parameters[1]			
1	building st	10	cf building volume
1	cf building volume	0.25	cf waste volume
1	cf	0.037	cy
1	cy waste volume	0.5	ton waste weight
1	**sf**	**0.04625**	**ton waste material**

Description	square feet[2]	height/ depth (ft)[3]	density (lbs/cf)[4]	Demolition Weight (pounds)	Demolition Weight (tons)
Existing Structures and Outbuildings	1,065	-	-	-	49.26
Pavement	0	0.5	150	-	-
Totals	**1,065**	-	-	-	**49**

Notes:
cy = cubic yard
gsf = gross square feet
sf = square feet
cf = cubic feet

[1] Source: California Air Pollution Control Officers Association (CAPCOA). 2017. Appendix A Calculation Details for CalEEMod. October.

[2] Source: Thompson Dorfman. Request For Information. Dated April 20, 2023

[3] Source: DC Construction Services. 2017. How Thick Is Parking Lot Asphalt? Website: https://dccpaving.com/how-thick-is-parking-lot-asphalt/. Accessed March 10, 2022.

[4] Source: SFGate. 2019. How to Calculate Asphalt Weight Per Yard. Website: https://homeguides.sfgate.com/calculate-asphalt-weight-per-yard-81825.html. Accessed March 10, 2022.

Shirk and Riggin Industrial Park Project Horsepower Hour Conservation Calculations

	Activity Duration CalEEMod Defaults	Revisions	Difference
Building Construction - Phase 1	3100	262	
Total Working Days	**3100**	**262**	**-2838**

CalEEMod Defaults

Building Construction - Phase 1

Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours
Cranes	1	7	231	0.29	1,453,683
Forklifts	3	8	89	0.20	1,324,320
Generator Sets	1	8	84	0.74	1,541,568
Tractors/Loaders/Backhoes	3	7	97	0.37	2,336,439
Welders	1	8	46	0.45	513,360
				Total	**7,169,370**

Revisions

Building Construction - Phase 1

Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours
Cranes	12.00	6.9	231	0.29	1,453,683
Forklifts	32.00	8.9	89	0.20	1,324,320
Generator Sets	12.00	7.9	84	0.74	1,541,568
Tractors/Loaders/Backhoes	32.00	7.8	97	0.37	2,336,439
Welders	12.00	7.9	46	0.45	513,360
				Total	**7,169,370**

	Activity Duration CalEEMod Defaults	Revisions	Difference
Building Construction-Phase2	1110	262	
Total Working Days	**1110**	**262**	**-848**

CalEEMod Defaults

Building Construction - Phase 2

Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours
Cranes	1	7	231	0.29	520,512
Forklifts	3	8	89	0.20	474,192
Generator Sets	1	8	84	0.74	551,981
Tractors/Loaders/Backhoes	3	7	97	0.37	836,596
Welders	1	8	46	0.45	183,816
				Total	**2,567,097**

Revisions

Building Construction - Phase 2

Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours
Cranes	4.00	7.4	231	0.29	520,512
Forklifts	12.00	8.5	89	0.20	474,192
Generator Sets	4.00	8.5	84	0.74	551,981
Tractors/Loaders/Backhoes	12.00	7.4	97	0.37	836,596
Welders	4.00	8.5	46	0.45	183,816
				Total	**2,567,097**

	Activity Duration CalEEMod Defaults	Revisions	Difference
Building Construction-Phase2	1550	262	
Total Working Days	**1550**	**262**	**-1288**

CalEEMod Defaults

Building Construction - Phase 3

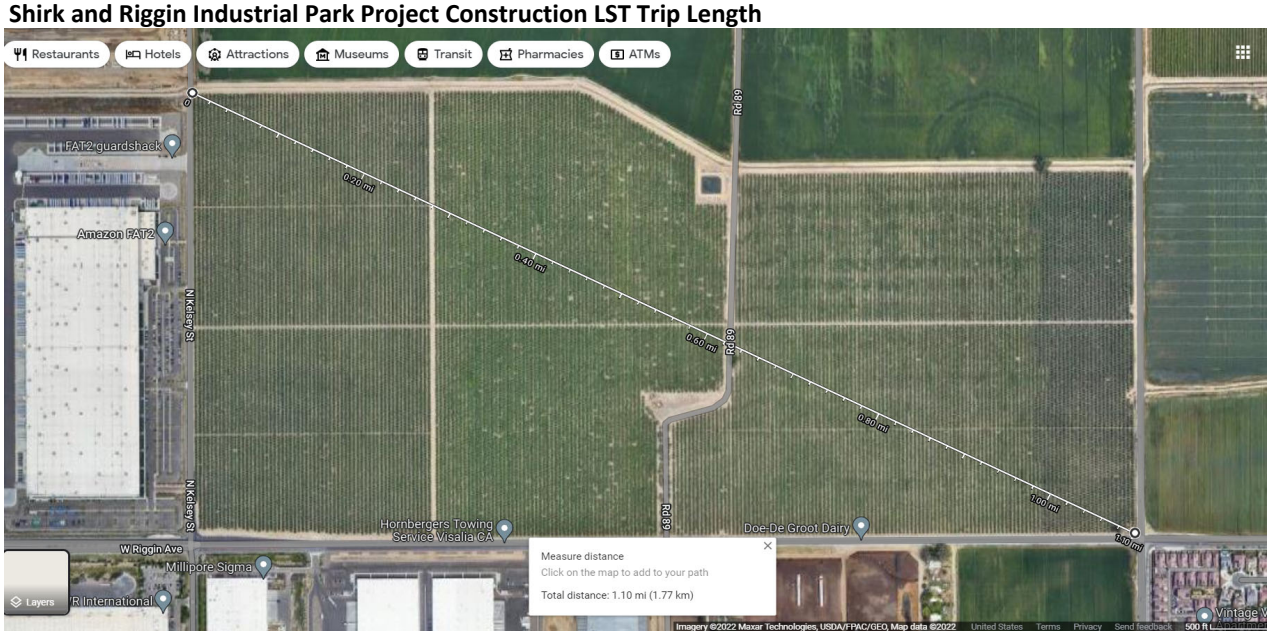
Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours
Cranes	1	7	231	0.29	726,842
Forklifts	3	8	89	0.20	662,160
Generator Sets	1	8	84	0.74	770,784
Tractors/Loaders/Backhoes	3	7	97	0.37	1,168,220
Welders	1	8	46	0.45	256,680
				Total	**3,584,685**

Revisions

Building Construction - Phase 3

Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours
Cranes	6.00	6.9	231	0.29	726,842
Forklifts	18.00	7.9	89	0.20	662,160
Generator Sets	6.00	7.9	84	0.74	770,784
Tractors/Loaders/Backhoes	16.00	7.8	97	0.37	1,168,220
Welders	6.00	7.9	46	0.45	256,680
				Total	**3,584,685**

Shirk and Riggin Industrial Park Project Construction LST Trip Length



Shirk and Riggin Industrial Park Project Operational LST Trip Length

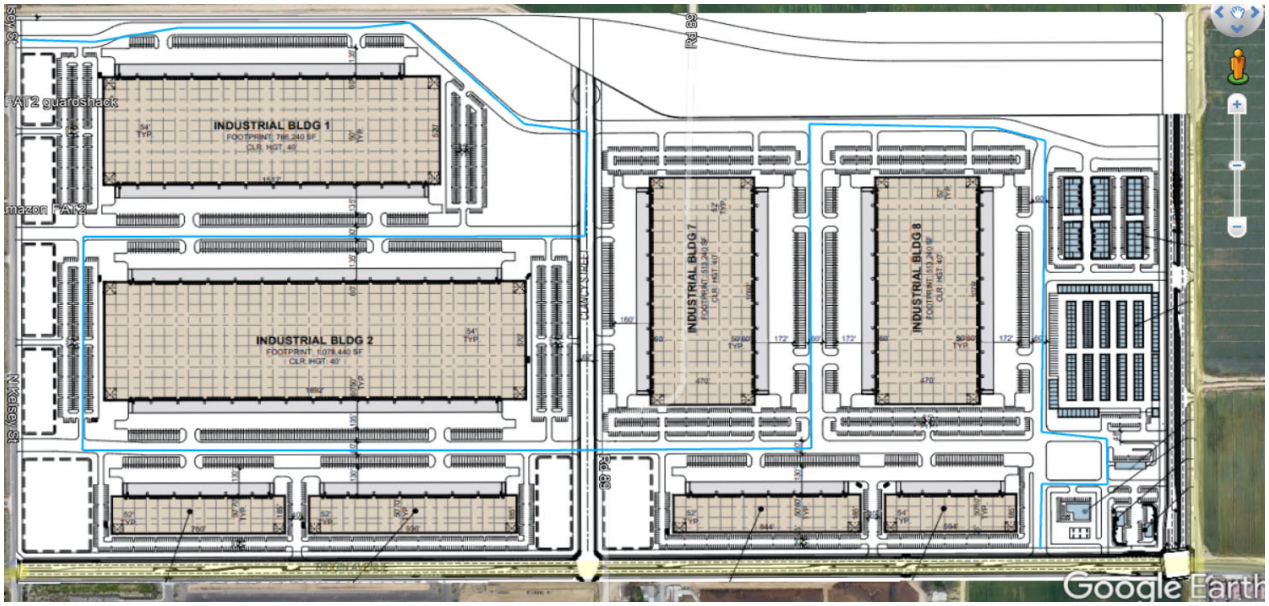


TABLE 4 PROJECT TRIP GENERATION - WEST

TABLE 4
Trip Generation Summary
WEST OF CLANCEY STREET

Land Use		Land Use as listed in ITE	Units[1]	Trip Rate[2]	Daily Trips	AM Peak-Hour					PM Peak-Hour				
						% of ADT[2]	In:Out Ratio[2]	In	Out	Total	% of ADT[2]	In:Out Ratio[2]	In	Out	Total
					Driveway Trips[3]										
Total Proposed Vehicles															
Phase 1	Land Use 130	Industrial Park	1864.7 ksf	3.37 / ksf	6,284	10%	0.81 : 0.19	514	120	634	10%	0.22 : 0.78	139	495	634
Phase 2	Land Use 130	Industrial Park	317.5 ksf	3.37 / ksf	1,070	10%	0.81 : 0.19	87	21	108	10%	0.22 : 0.78	24	84	108
Total Vehicle Subtotal					**7,354**			**601**	**141**	**742**			**163**	**579**	**742**
Proposed Trucks															
Phase 1	Land Use 130	Industrial Park	1864.7 ksf	0.57 / ksf	1,063	7%	0.45 : 0.55	34	41	75	7%	0.38 : 0.62	28	47	75
Phase 2	Land Use 130	Industrial Park	317.5 ksf	0.57 / ksf	181	7%	0.45 : 0.55	6	7	13	7%	0.38 : 0.62	5	8	13
Truck Subtotal					**1,244**			**40**	**48**	**88**			**33**	**55**	**88**
PHASE 1 GROSS TRIP GENERATION =					6,284			514	120	634			139	495	634
Passenger Car Equivalent (PCE = 2.0 per Visalia Guidelines)					7,347			548	161	709			167	542	709
Pass-by Trip Reduction (PCE)								0	0	0			0	0	0
With Internal Capture Trip Reduction (PCE)								0	0	0			0	0	0
PHASE 1 NET TRIP GENERATION =					**7,347**			**548**	**161**	**709**			**167**	**542**	**709**
PHASE 1 & 2 NET TRIP GENERATION =					7,354			601	141	742			163	579	742
Passenger Car Equivalent (PCE = 2.0 per Visalia Guidelines)					8,598			641	189	830			196	634	830
With Pass-by Trip Reduction (PCE)								0	0	0			0	0	0
With Internal Capture Trip Reduction (PCE)								0	0	0			0	0	0
PHASE 1 & 2 NET TRIP GENERATION =					**8,598**			**641**	**189**	**830**			**196**	**634**	**830**
BUILDOUT GROSS TRIP GENERATION =					7,354			601	141	742			163	579	742
Passenger Car Equivalent (PCE = 2.0 per Visalia Guidelines)					8,598			641	189	830			196	634	830
Pass-by Trip Reduction (PCE)								0	0	0			0	0	0
With Internal Capture Trip Reduction (PCE)								0	0	0			0	0	0
BUILDOUT NET TRIP GENERATION =					**8,598**			**641**	**189**	**830**			**196**	**634**	**830**

Note:
1. ksf = Thousand Square Feet
2. Trip Rates per ITE Trip Generation Manual, 11th Edition; Industrial Park: LUC 130: Industrial Park; C-Store: LUC 945: Convenience Store/Gas Station: Subcategory VFP (9-15); Car Wash: LUC 947: Self-Service Car Wash; Drive-Thru: LUC 934: Fast-Food Restuarant with Drive Through Window
3. Driveway trips are the total number of trips generated by a site.
4. Pass-by trip reductions based on ITE Trip Generation Manual, 11th Edition.

Land Use	AM	PM
Convenience Market with Gasoline Pumps LUC 945	76%	75%
Fast Food Restaurant with Drive-Through Window LUC 934	50%	55%

5. Internal capture trip reduction assumed to be 5% (per Caltrans maximum allowed).

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TABLE 5 PROJECT TRIP GENERATION - EAST

TABLE 5
Trip Generation Summary
EAST OF CLANCEY STREET

Land Use		Land Use as listed in ITE	Units[1]	Trip Rate[2]	Daily Trips	AM Peak-Hour % of ADT[2]	AM In:Out Ratio[2]	AM In	AM Out	AM Total	PM Peak-Hour % of ADT[2]	PM In:Out Ratio[2]	PM In	PM Out	PM Total
Driveway Trips															
Total Proposed Vehicles															
Phase 2	Land Use 130	Industrial Park	513.2 ksf	3.37 / ksf	1,730	10%	0.81 : 0.19	141	34	175	10%	0.22 : 0.78	38	137	175
	Land Use 945	Convenience Store/Gas Station (VFP 9-15))	6.9 ksf	700.43 / ksf	4,848	8%	0.50 : 0.50	196	195	391	8%	0.50 : 0.50	189	188	377
	Land Use 947	Self-Service Car Wash (1)	1.0 Wash Stall	108 / Wash Sta	108	0%	0.00 : 0.00	0	0	0	5%	0.51 : 0.49	3	3	6
	Land Use 934	Fast-Food Restaurant w/ D.T.	4.7 ksf	467.48 / ksf	2,214	10%	0.51 : 0.49	108	103	211	7%	0.52 : 0.48	81	75	156
Phase 3	Land Use 130	Industrial Park	863.8 ksf	3.37 / ksf	2,911	10%	0.81 : 0.19	238	56	294	10%	0.22 : 0.78	65	229	294
	Land Use 151	Mini-Warehouse	144.8 ksf	1.45 / ksf	210	6%	0.59 : 0.39	8	5	13	10%	0.47 : 0.53	10	12	22
Total Vehicle Subtotal					**12,021**			**691**	**393**	**1,084**			**386**	**644**	**1,030**
Proposed Trucks															
Phase 2	Land Use 130	Industrial Park	513.2 ksf	0.57 / ksf	293	7%	0.45 : 0.55	9	12	21	7%	0.38 : 0.62	8	13	21
Phase 3	Land Use 130	Industrial Park	863.8 ksf	0.57 / ksf	492	7%	0.45 : 0.55	16	19	35	7%	0.38 : 0.62	13	22	35
	Land Use 151	Mini-Warehouse	144.8 ksf	0.04 / ksf	6	0%	0.50 : 0.50	0	0	0	0%	0.50 : 0.50	0	0	0
Truck Subtotal			**1377.0**		**791**			**25**	**31**	**56**			**21**	**35**	**56**
PHASE 1 GROSS TRIP GENERATION =					0			0	0	0			0	0	0
Passenger Car Equivalent (PCE = 2.0 per Visalia Guidelines)					0			0	0	0			0	0	0
Pass-by Trip Reduction (PCE)								0	0	0			0	0	0
With Internal Capture Trip Reduction (PCE)								0	0	0			0	0	0
PHASE 1 NET TRIP GENERATION =					**0**			**0**	**0**	**0**			**0**	**0**	**0**
PHASE 1 & 2 NET TRIP GENERATION =					8,900			445	332	777			311	403	714
Passenger Car Equivalent (PCE = 2.0 per Visalia Guidelines)					9,193			454	344	798			319	416	735
With Pass-by Trip Reduction (PCE)								203	200	403			184	180	365
With Internal Capture Trip Reduction (PCE)								23	17	40			16	21	37
PHASE 1 & 2 NET TRIP GENERATION =					**9,193**			**228**	**127**	**355**			**119**	**215**	**334**
BUILDOUT GROSS TRIP GENERATION =					12,021			691	393	1,084			386	644	1,030
Passenger Car Equivalent (PCE = 2.0 per Visalia Guidelines)					12,811			716	424	1,140			407	679	1,086
Pass-by Trip Reduction (PCE)								203	200	403			184	180	365
With Internal Capture Trip Reduction (PCE)								36	21	57			20	34	54
BUILDOUT NET TRIP GENERATION =					**12,811**			**477**	**203**	**680**			**203**	**465**	**667**

Note:
1. ksf = Thousand Square Feet
2. Trip Rates per ITE Trip Generation Manual, 11th Edition; Industrial Park: LUC 130: Industrial Park; C-Store: LUC 945: Convenience Store/Gas Station: Subcategory VFP (9-15); Car Wash: LUC 947: Self-Service Car Wash; Drive-Thru: LUC 934: Fast-Food Restuarant with Drive-Through Window
3. Driveway trips are the total number of trips generated by a site.
4. Pass-by trip reductions based on ITE Trip Generation Manual, 11th Edition.

Land Use	AM	PM
Convenience Market with Gasoline Pumps LUC 945	76%	75%
Fast Food Restaurant with Drive-Through Window LUC 934	50%	55%

5. Internal capture trip reduction assumed to be 5% (per Caltrans maximum allowed).

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TABLE 6 PROJECT TRIP GENERATION - TOTAL

TABLE 6
Trip Generation Summary
Total Project

Land Use		Land Use as listed in ITE	Units[1]	Trip Rate[2]	Daily Trips	AM Peak-Hour % of ADT[2]	AM Peak-Hour In:Out Ratio[2]	AM In	AM Out	AM Total	PM Peak-Hour % of ADT[2]	PM Peak-Hour In:Out Ratio[2]	PM In	PM Out	PM Total
Driveway Trips															
Total Proposed Vehicles															
Phase 1	Land Use 130	Industrial Park	1864.7 ksf	3.37 / ksf	6,284	10%	0.81 : 0.19	514	120	634	10%	0.22 : 0.78	139	495	634
Phase 2	Land Use 130	Industrial Park	830.7 ksf	3.37 / ksf	2,799	10%	0.81 : 0.19	229	53	282	10%	0.22 : 0.78	62	220	282
	Land Use 945	Convenience Store/Gas Station (VFP 9-15))	6.9 ksf	700.43 / ksf	4,848	8%	0.50 : 0.50	196	195	391	8%	0.50 : 0.50	189	188	377
	Land Use 947	Self-Service Car Wash (1)	1.0 Wash Stall	108 / Wash Stal	108	0%	0.00 : 0.00	0	0	0	5%	0.51 : 0.49	3	3	6
	Land Use 934	Fast-Food Restaurant w/ D.T.	4.7 ksf	467.48 / ksf	2,214	10%	0.51 : 0.49	108	103	211	7%	0.52 : 0.48	81	75	156
Phase 3	Land Use 130	Industrial Park	863.8 ksf	3.37 / ksf	2,911	10%	0.81 : 0.19	238	56	294	10%	0.22 : 0.78	65	229	294
	Land Use 151	Mini-Warehouse	144.8 ksf	1.45 / ksf	210	6%	0.59 : 0.39	8	5	13	10%	0.47 : 0.53	10	12	22
Total Vehicle Subtotal					**19,375**			**1,293**	**532**	**1,825**			**549**	**1,222**	**1,771**
Proposed Trucks															
Phase 1	Land Use 130	Industrial Park	1864.7 ksf	0.57 / ksf	1,063	7%	0.45 : 0.55	34	41	75	7%	0.38 : 0.62	28	47	75
Phase 2	Land Use 130	Industrial Park	830.7 ksf	0.57 / ksf	473	7%	0.45 : 0.55	15	18	33	7%	0.38 : 0.62	13	20	33
Phase 3	Land Use 130	Industrial Park	863.8 ksf	0.57 / ksf	492	7%	0.45 : 0.55	16	19	35	7%	0.38 : 0.62	13	22	35
	Land Use 151	Mini-Warehouse	144.8 ksf	0.04 / ksf	6	0%	0.50 : 0.50	0	0	0	0%	0.50 : 0.50	0	0	0
Truck Subtotal			**3559.1**		**2,034**			**65**	**78**	**143**			**54**	**89**	**143**
PHASE 1 GROSS TRIP GENERATION =					6,284			514	120	634			139	495	634
Passenger Car Equivalent (PCE = 2.0 per Visalia Guidelines)					7,347			548	161	709			167	542	709
Pass-by Trip Reduction (PCE)								0	0	0			0	0	0
With Internal Capture Trip Reduction (PCE)								0	0	0			0	0	0
PHASE 1 NET TRIP GENERATION =					**7,347**			**548**	**161**	**709**			**167**	**542**	**709**
PHASE 1 & 2 NET TRIP GENERATION =					16,254			1,047	471	1,518			474	981	1,455
Passenger Car Equivalent (PCE = 2.0 per Visalia Guidelines)					17,790			1,096	530	1,626			515	1,048	1,563
With Pass-by Trip Reduction (PCE)								203	200	403			184	180	365
With Internal Capture Trip Reduction (PCE)								23	17	40			16	21	37
PHASE 1 & 2 NET TRIP GENERATION =					**17,790**			**870**	**313**	**1,183**			**315**	**847**	**1,162**
BUILDOUT GROSS TRIP GENERATION =					19,375			1,293	532	1,825			549	1,222	1,771
Passenger Car Equivalent (PCE = 2.0 per Visalia Guidelines)					21,409			1,358	610	1,968			603	1,311	1,914
Pass-by Trip Reduction (PCE)								203	200	403			184	180	365
With Internal Capture Trip Reduction (PCE)								36	21	57			20	34	54
BUILDOUT NET TRIP GENERATION =					**21,409**			**1,119**	**389**	**1,508**			**399**	**1,097**	**1,495**

Note:
1. ksf = Thousand Square Feet
2. Trip Rates per ITE Trip Generation Manual, 11th Edition; Industrial Park: LUC 130: Industrial Park; C-Store: LUC 945: Convenience Store/Gas Station: Subcategory VFP (9-15); Car Wash: LUC 947: Self-Service Car Wash; Drive-Thru: LUC 934: Fast-Food Restuarant with Drive-Through Window
3. Driveway trips are the total number of trips generated by a site.
4. Pass-by trip reductions based on ITE Trip Generation Manual, 11th Edition.

Land Use	AM	PM
Convenience Market with Gasoline Pumps LUC 945	76%	75%
Fast Food Restaurant with Drive-Through Window LUC 934	50%	55%

5. Internal capture trip reduction assumed to be 5% (per Caltrans maximum allowed).

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Appendix D:
Additional Energy Supporting Information

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Appendix D: Energy Calculations and Supporting Information

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Project Energy Calculations 1

Typical Construction Trailer CalEEMod Output Files 6

Visalia Shirk and Riggin Project Energy Use Summary

Summary of Energy Use During Construction

Construction vehicle fuel	924,696	gallons (gasoline, diesel)
Construction equipment fuel	886,680	gallons (diesel)
Total construction fuel	1,811,376	gallons (gasoline, diesel)
Construction office electricity	25,443	kilowatt hours

Operational Onroad Mobile Sources

Operational Year	**2028**	
County	**Tulare**	
Gasoline	**1,233,419**	**gallons**
Diesel	**6,342,750**	**gallons**
Natural Gas	**148,543**	**gallons**
Electricity	**1,736,636**	**kw-hr**

Note: See detailed EMFAC2021 calculations in Appendix A, based on VMT, Fleet Mix, Vehicle Category for each Land Use

Construction Vehicle Fuel Calculations

California Air Resource Board (ARB). 2022. EMFAC2021 Web Database. Website: https://arb.ca.gov/emfac/emissions-inventory/

VMT = Vehicle Miles Traveled
FE = Fuel Economy year 2024

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: Tulare
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

							Calculations	
VehClass	MdlYr	Speed	Fuel	Population	VMT (mi/day)	Fuel_Consumption (1000 gallons/day)	Fuel Economy (mi/gallon)	VMT*FE
HHDT	Aggregated	Aggregated	GAS	0.77933665	37.0721246	0.010342608	3.584407622	132.881606
HHDT	Aggregated	Aggregated	DSL	5376.747763	746360.164	125.2227059	5.960262225	4448502.29
LDA	Aggregated	Aggregated	GAS	158223.9536	6564398.59	217.9503163	30.1187844	197711706
LDA	Aggregated	Aggregated	DSL	359.7791844	11427.4953	0.260720464	43.83045018	500872.263
LDT1	Aggregated	Aggregated	GAS	15208.02808	501766.375	20.47746002	24.50335025	12294957.2
LDT1	Aggregated	Aggregated	DSL	9.512365454	157.927055	0.006179901	25.55495069	4035.81811
LDT2	Aggregated	Aggregated	GAS	69118.42037	2784413.87	114.7335565	24.26852227	67573610.1
LDT2	Aggregated	Aggregated	DSL	177.9591413	7851.28531	0.232582017	33.75706086	265036.316
LHDT1	Aggregated	Aggregated	GAS	7112.717281	252436.452	27.13505655	9.302963929	2348407.21
LHDT1	Aggregated	Aggregated	DSL	8035.272749	285635.962	18.07147636	15.80590076	4514733.67
LHDT2	Aggregated	Aggregated	GAS	1081.046628	37535.9313	4.566392691	8.220040154	308546.862
LHDT2	Aggregated	Aggregated	DSL	2738.705526	99889.5275	7.66820855	13.02644899	1301205.83
MHDT	Aggregated	Aggregated	GAS	386.2093164	18095.2103	3.850685638	4.699217744	85033.3332
MHDT	Aggregated	Aggregated	DSL	4025.767481	189979.333	21.84238522	8.69773748	1652390.36

Worker
Sum of VMT*FE (Column BI) 278350217
Total VMT 9870015.54
Weighted Average FE 28.2015987

Vendor
Sum of VMT*FE (Column BI) 14658952.4
Total VMT 1629969.65
Weighted Average FE 8.9933898

Haul
Sum of VMT*FE (Column BI) 4448635.17
Total VMT 746397.236
Weighted Average FE 5.96014422

Project Construction Assumptions

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Site Preparation and Grading Only					
Demolition		3/14/2024	4/24/2024	5	30
Site Preparation		3/14/2024	11/20/2024	5	180
Grading		11/21/2024	9/2/2026	5	465
Phase 1					
Building Construction		3/14/2024	3/14/2025	5	262
Paving		3/14/2024	1/15/2025	5	220
Architectural Coating		5/10/2024	3/13/2025	5	220
Phase 2					
Building Construction		9/12/2025	9/12/2026	5	261
Paving		9/12/2025	12/25/2025	5	75
Architectural Coating		6/1/2026	9/11/2026	5	75
Phase 3					
Building Construction		3/12/2027	3/12/2028	5	261
Paving		3/12/2027	8/12/2027	5	110
Architectural Coating		10/1/2027	3/10/2028	5	110
Off-site Improvements					
Paving		3/14/2024	4/10/2024	5	20
Architectural Coating		4/11/2024	5/8/2024	5	20

Phase Name	Trips per Day		Total Trips							Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Vendor Vehicle Cla	Hauling Vehicle Cl	Num Days	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Site Preparation and Grading Only																		
Demolition	15	0	5	9.1	7.3	20	HDT_Mix	HHDT	30	450	0	5	4,095	0	100	145.20	0.00	16.78
Site Preparation	18	0	0	9.1	7.3	20	HDT_Mix	HHDT	180	3,240	0	0	29,484	0	0	1,045.47	0.00	0.00
Grading	20	0	16250	9.1	7.3	20	HDT_Mix	HHDT	465	9,300	0	16,250	84,630	0	325,000	3,000.89	0.00	54,528.88
Phase 1																		
Building Construction	2159	842	0	9.1	7.3	20	HDT_Mix	HHDT	262	565,658	220,604	0	5,147,488	1,610,409	0	182,524.68	179,065.87	0.00
Paving	15	0	0	9.1	7.3	20	HDT_Mix	HHDT	220	3,300	0	0	30,030	0	0	1,064.83	0.00	0.00
Architectural Coating	432	0	0	9.1	7.3	20	HDT_Mix	HHDT	220	95,040	0	0	864,864	0	0	30,667.20	0.00	0.00
Phase 2				9.1	7.3													
Building Construction	1207	471	0	9.1	7.3	20	HDT_Mix	HHDT	261	315,027	122,931	0	2,866,746	897,396	0	101,651.89	99,783.99	0.00
Paving	15	0	0	9.1	7.3	20	HDT_Mix	HHDT	75	1,125	0	0	10,238	0	0	363.01	0.00	0.00
Architectural Coating	241	0	0	9.1	7.3	20	HDT_Mix	HHDT	75	18,075	0	0	164,483	0	0	5,832.38	0.00	0.00
Phase 3																		
Building Construction	1518	592	0	9.1	7.3	20	HDT_Mix	HHDT	261	396,198	154,512	0	3,605,402	1,127,938	0	127,843.88	125,418.52	0.00
Paving	15	0	0	9.1	7.3	20	HDT_Mix	HHDT	110	1,650	0	0	15,015	0	0	532.42	0.00	0.00
Architectural Coating	304	0	0	9.1	7.3	20	HDT_Mix	HHDT	110	33,440	0	0	304,304	0	0	10,790.31	0.00	0.00
Off-site Improvements Only																		
Paving	15	0	0	9.1	7.3	20	HDT_Mix	HHDT	20	300	0	0	2,730	0	0	96.80	0.00	0.00
Architectural Coating	50	0	0	9.1	7.3	20	HDT_Mix	HHDT	20	1,000	0	0	9,100	0	0	322.68	0.00	0.00

On-site Total Construction VMT (miles)
17,099,450

On-Site Total Fuel Consumption (gallons)
924,696 18.49197597

Construction Equipment Fuel Calculation

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	HP Hours	Diesel Fuel Usage
Site Preparation and Grading Only								
Demolition	Concrete and Industrial Saws	1	8	81	0.73	30	14,191.20	709.56
Demolition	Excavators	3	8	158	0.38	30	43,228.80	2,161.44
Demolition	Rubber Tired Dozers	2	8	247	0.4	30	47,424.00	2,371.20
Site Preparation	Rubber Tired Dozers	3	8	247	0.4	180	426,816.00	21,340.80
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37	180	206,726.40	10,336.32
Grading	Excavators	2	8	158	0.38	465	446,697.60	22,334.88
Grading	Graders	1	8	187	0.41	465	285,212.40	14,260.62
Grading	Rubber Tired Dozers	1	8	247	0.4	465	367,536.00	18,376.80
Grading	Scrapers	2	8	367	0.48	465	1,310,630.40	65,531.52
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37	465	267,021.60	13,351.08
Phase 1								
Building Construction	Cranes	12	6.9	231	0.29	262	1,453,254.26	72,662.71
Building Construction	Forklifts	32	8.9	89	0.2	262	1,328,193.28	66,409.66
Building Construction	Generator Sets	12	7.9	84	0.74	262	1,543,905.22	77,195.26
Building Construction	Tractors/Loaders/Backhoes	32	7.8	97	0.37	262	2,347,033.73	117,351.69
Building Construction	Welders	12	7.9	46	0.45	262	514,138.32	25,706.92
Paving	Pavers	2	8	130	0.42	220	192,192.00	9,609.60
Paving	Paving Equipment	2	8	132	0.36	220	167,270.40	8,363.52
Paving	Rollers	2	8	80	0.38	220	107,008.00	5,350.40
Architectural Coating	Air Compressors	1	6	78	0.48	220	49,420.80	2,471.04
Phase 2								
Building Construction	Cranes	4	7.4	231	0.29	261	517,537.94	25,876.90
Building Construction	Forklifts	12	8.5	89	0.2	261	473,871.60	23,693.58
Building Construction	Generator Sets	4	8.5	84	0.74	261	551,607.84	27,580.39
Building Construction	Tractors/Loaders/Backhoes	12	7.4	97	0.37	261	831,815.35	41,590.77
Building Construction	Welders	4	8.4	46	0.45	261	181,530.72	9,076.54
Paving	Pavers	2	8	130	0.42	75	65,520.00	3,276.00
Paving	Paving Equipment	2	8	132	0.36	75	57,024.00	2,851.20
Paving	Rollers	2	8	80	0.38	75	36,480.00	1,824.00
Architectural Coating	Air Compressors	1	6	78	0.48	75	16,848.00	842.40
Phase 3								
Building Construction	Cranes	6	6.9	231	0.29	261	723,853.75	36,192.69
Building Construction	Forklifts	18	7.9	89	0.2	261	660,632.76	33,031.64
Building Construction	Generator Sets	6	7.9	84	0.74	261	769,006.22	38,450.31
Building Construction	Tractors/Loaders/Backhoes	16	7.8	97	0.37	261	1,169,037.79	58,451.89
Building Construction	Welders	6	7.9	46	0.45	261	256,087.98	12,804.40
Paving	Pavers	2	8	130	0.42	110	96,096.00	4,804.80
Paving	Paving Equipment	2	8	132	0.36	110	83,635.20	4,181.76
Paving	Rollers	2	8	80	0.38	110	53,504.00	2,675.20
Architectural Coating	Air Compressors	1	6	78	0.48	110	24,710.40	1,235.52
Off-site Improvements Only								
Paving	Pavers	2	8	130	0.42	20	17,472.00	873.60
Paving	Paving Equipment	2	8	132	0.36	20	15,206.40	760.32
Paving	Rollers	2	8	80	0.38	20	9,728.00	486.40
Architectural Coating	Air Compressors	1	6	78	0.48	20	4,492.80	224.64

Construction Equipment Fuel Consumption **886,679.96 gallons**

Notes:

Equipment assumptions are provided in the CalEEMod output files.

Fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

South Coast Air Quality Management District. 1993. Air Quality Handbook, Table A9-3E.

Website: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook. Accessed September 26, 2022

Shirk & Riggin Updates QC
Energy Calculations - Operations Fuel Use from Mobile Sources
Source: AQ/GHG Appendix, CalEEMod Output

Total Operational FUEL Consumption for ALL LAND USES (gallons for fuels, Kw-hr for electricity)

Fuel	Total all Vehicles	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	1,233,419	851	524,885	53,334	299,575				354,774					
Diesel	6,342,750	6,338,057	316	6	503				3,868					
Natural Gas	148,543	148,543												
Electricity	1,736,636	1,618,162	88,013	1,133	16,946				12,382					

Passenger Vehicles — **Total Consumption by Vehicle Category**

Fuel	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	gal		514,287	53,243	298,119				353,842					
Diesel	gal		316	6	503				3,868					
Natural Gas	gal													
Plug-in Hybrid	gal		10,598	91	1,456				931					
Electricity	kwhr													
Plug-in Hybrid	kwhr		88,013	1,133	16,946				12,382					

Trucks — **Total Consumption by Vehicle Category**

Fuel	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	gal	851												
Diesel	gal	6,338,057												
Natural Gas	gal	148,543												
Plug-in Hybrid	gal													
Electricity	kwhr	1,618,162												
Plug-in Hybrid	kwhr													

Land Use Type	Season	Annual VMT	HHDT%	LDA%	LDT1%	LDT2%	LHD1%	LHD2%	MCY%	MDV%	MH%	MHDT%	OBUS%	SBUS%	UBUS%
Passenger Vehicles	Annual	35,995,844		52.01%	3.97%	22.70%				21.32%					
Trucks	Annual	42,048,000	100.00%												

Region	Year	County-Specific Fuel Economy (gal/mi)													
Tulare	2028	Fuel	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Tulare	2028	Gasoline	0.2419	0.0307	0.0377	0.0375	0.1009	0.1160	0.0234	0.0478	0.2265	0.2024	0.2030	0.1033	0.1998
Tulare	2028	Diesel	0.1569	0.0215	0.0373	0.0271	0.0629	0.0754		0.0393	0.1063	0.1120	0.1381	0.1188	0.0769
Tulare	2028	Natural Gas	0.1954									0.1402	0.1304	0.1711	0.1046
Tulare	2028	Plug-in Hybrid		0.0326	0.0328	0.0329				0.0334					

Region	Year	County-Specific Electric Car Economy (kw-hr/mi)													
Tulare	2028	Fuel	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Tulare	2028	Electricity	1.8367	0.3861	0.3861	0.3861				0.3861		1.0817	1.1093	1.0535	1.7433
Tulare	2028	Plug-in Hybrid		0.3020	0.3020	0.3020				0.3020					

Fossil Fuel Consumption - weighted by EMFAC Vehicle Type and Fuel

Region	Year	Fuel	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Tulare	2028	CVMT Fraction	0.979047	0.913198	0.990863	0.981801	0.971154	0.973210	1.000000	0.980780	1.000000	0.956861	0.982386	0.979623	0.959454
Tulare	2028	Gasoline	0.0001	0.9801	0.9979	0.9922	0.6098	0.3596	1.0000	0.9832	0.7751	0.1417	0.4906	0.3171	0.4045
Tulare	2028	Diesel	0.9814	0.0009	0.0001	0.0023	0.3902	0.6404		0.0131	0.2249	0.8477	0.4956	0.5123	0.0698
Tulare	2028	Natural Gas	0.0185									0.0106	0.0137	0.1706	0.5257
Tulare	2028	Plug-in Hybrid		0.0190	0.0020	0.0055				0.0037					
			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Electricity Factors (mi/kw-hr) - Weighted by EMFAC Vehicle Type and Fuel Type

Region	Year	Fuel	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Tulare	2028	EVMT Fraction	0.020953	0.086802	0.009137	0.018199	0.028846	0.026790	0.000000	0.019220	0.000000	0.043139	0.017614	0.020377	0.040546
Tulare	2028	Electricity	1.00	0.82	0.71	0.62	1.00	1.00		0.72		1.00	1.00	1.00	1.00
Tulare	2028	Plug-in Hybrid		0.179	0.287	0.377				0.278					
			1.0	1.0	1.0	1.0	1.0	1.0		1.0		1.0	1.0	1.0	1.0
Check CVMT+EVMT Fractions			1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Construction Office Electricity Calculation

Energy Appendix: CalEEMod Typical Construction Trailer
Construction Trailer - Tulare County, Annual
Date: 10/7/2022 12:26 PM

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	6364.8	1.1288	1.0000e-004	1.0000e-005	1.1346
Total		**1.1288**	**1.0000e-004**	**1.0000e-005**	**1.1346**

kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity

Annual	6,365	kWh/yr
Total Over Construction	**25,443**	**kWh**

Total Construction Schedule	
Start	3/14/2024
End	3/12/2028
Total Calendar Days	1459
Years	4.00

Proposed Operation Fuel Calculation

California Air Resource Board (ARB). 2022. EMFAC2021 Web Database. Website: https://arb.ca.gov/emfac/emissions-inventory/059c667f91fb54c413480e9f9fd2b0716a5dda74. Accessed September 16, 2022.

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: Tulare
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Given									*Calculations*	
Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
Tulare	2025	HHDT	Aggregate	Aggregate	Gasoline	0.558892	36.1838571	0.009506877	3.806072	137.7183602
Tulare	2025	HHDT	Aggregate	Aggregate	Diesel	5509.79104	753668.271	124.4842508	6.054326	4562953.624
									Heavy Duty Trucks	
									Sum of VMT*FE	**4563091.342**
									Total VMT	**753704.4553**
									Weighted Average FE	**6.054218348 miles/gallon**
Tulare	2025	LDA	Aggregate	Aggregate	Gasoline	158383.653	6597847.02	214.7121908	30.7288	202743892.6
Tulare	2025	LDA	Aggregate	Aggregate	Diesel	336.646802	10658.8582	0.240235043	44.36846	472917.0941
Tulare	2025	LDT1	Aggregate	Aggregate	Gasoline	14635.8469	489241.989	19.57271517	24.99612	12229152.76
Tulare	2025	LDT1	Aggregate	Aggregate	Diesel	8.55310616	139.465899	0.00545544	25.56455	3565.38348
Tulare	2025	LDT2	Aggregate	Aggregate	Gasoline	70401.7785	2858837.76	114.75899	24.91167	71218414.59
Tulare	2025	LDT2	Aggregate	Aggregate	Diesel	190.189196	8409.62654	0.243310875	34.5633	290664.4368
Tulare	2025	MDV	Aggregate	Aggregate	Gasoline	74688.9807	2740884.28	139.0133	19.71671	54041207.84
Tulare	2025	MDV	Aggregate	Aggregate	Diesel	1184.56415	46375.9914	1.884523	24.60888	1141260.985
									Passenger Vehicles Only	
									Sum of VMT*FE	**342141075.7**
									Total VMT	**12752394.99**
									Weighted Average FE	**26.82955444 miles/gallon**

Phase 1 - Passenger Vehicles

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated		
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	5,221.16	5,221.16	5221.16	13,688,985	13,688,985
Parking Lot	0.00	0.00	0.00		
Total	5,221.16	5,221.16	5,221.16	13,688,985	13,688,985

	Annual VMT (miles)	Consumption	
Total VMT	13,688,985	**488,892**	**gallons per year**

Phase 1 - Trucks

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated		
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	1,062.88	1,062.88	1062.88	19,344,398	19,344,398
Parking Lot	0.00	0.00	0.00		
Total	1,062.88	1,062.88	1,062.88	19,344,398	19,344,398

	Annual VMT (miles)	Consumption	
Total VMT	19,344,398	**3,195,193**	**gallons per year**

Phase 2 - Passenger Vehicles

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated		
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	5,688.62	5,688.62	5688.62	3,051,399	3,051,399
Fast Food Restaurant with Drive Thru	2,215.86	2,215.86	2215.86	2,070,329	2,070,329
Industrial Park	1,437.07	1,437.07	1437.07	3,767,756	3,767,756
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	889.00	889.00	889.00	2,595,445	2,595,445
Total	10,230.55	10,230.55	10,230.55	11,484,930	11,484,930

	Annual VMT (miles)	Consumption	
Total VMT	11,484,930	**428,070**	**gallons per year**

Phase 2 - Trucks

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated		
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Industrial Park	292.55	292.55	292.55	5,324,352	5,324,352
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	180.98	180.98	180.98	3,293,745	3,293,745
Total	473.52	473.52	473.52	8,618,097	8,618,097

	Annual VMT (miles)	Consumption	
Total VMT	8,618,097	**1,423,486**	**gallons per year**

Phase 3 - Passenger Vehicles

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated		
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	2,182.04	2,182.04	2182.04	5,720,934	5,720,934
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	188.66	188.66	188.66	550,789	550,789
Total	2,370.70	2,370.70	2,370.70	6,271,723	6,271,723

		Fuel	
	Annual VMT (miles)	Consumption	
Total VMT	6,271,723	**233,762**	**gallons per year**

Phase 3 - Trucks

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated		
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	444.20	444.20	444.20	8,084,458	8,084,458
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	5.35	5.35	5.35	97,406	97,406
Total	449.55	449.55	449.55	8,181,865	8,181,865

		Fuel			
	Annual VMT (miles)	Consumption			
Total VMT	8,181,865	**1,351,432**	**gallons per year**	5,970,112	1,150,724
Overall	67,589,998	7,120,836	**gallons per year**		

Operation Natural Gas Use

Source: AQ/GHG Appendix, CalEEMod Output

CalEEMod output file:	Shirk & Riggin Industrial Park Project - Construction PHASE 1 - Tulare County, Annual
Time stamp:	Date: 9/14/2022 4:54 PM
CalEEMod output file:	Shirk & Riggin Industrial Park Project Construction Phase 2 - Tulare County, Annual
Time stamp:	Date: 9/14/2022 4:56 PM
CalEEMod output file:	Shirk & Riggin Industrial Park Project Construction Phase 3 - Tulare County, Annual
Time stamp:	Date: 9/14/2022 4:58 PM

kBTU/yr = kilo-British Thermal Units/year

CF = cubic feet

	Natural Gas Use
Phase 1	
Industrial Park	24,091,900
Phase 2	
Convenience Market with Gas Pumps	84,052
Fast Food Restaurant with Drive Thru	994,844
Industrial Park	6,063,106
Unrefridgerated Warehouse-No Rail	5,686,400
Phase 3	
Industrial Park	10,068,600
Unrefridgerated Warehouse-No Rail	2,396,360

Total **49,385,262 kBTU/yr**

Mitigated

Land Use	NaturalGas Use kBTU/yr
Industrial Park	2.40919e+007
Parking Lot	0
Total	

Land Use	NaturalGas Use kBTU/yr
Convenience Market with Gas Pumps	84052.4
Fast Food Restaurant with Drive Thru	994844
Industrial Park	6.63106e+006
Parking Lot	0
Unrefrigerated Warehouse-No Rail	5.68643e+006
Total	

Land Use	NaturalGas Use kBTU/yr
City Park	0
Industrial Park	1.00686e+007
Other Non-Asphalt Surfaces	0
Unrefrigerated Warehouse-No Rail	2.39636e+006
Total	

Operation Electricity Use

Source: AQ/GHG Appendix, CalEEMod Output

CalEEMod output file:	Shirk & Riggin Industrial Park Project - Construction PHASE 1 - Tulare County, Annua
Time stamp:	Date: 9/14/2022 4:54 PM
CalEEMod output file:	Shirk & Riggin Industrial Park Project Construction Phase 2 - Tulare County, Annual
Time stamp:	Date: 9/14/2022 4:56 PM
CalEEMod output file:	Shirk & Riggin Industrial Park Project Construction Phase 3 - Tulare County, Annual
Time stamp:	Date: 9/14/2022 4:58 PM

Project Electricity Use

kWh/yr = kilowatt hours per year

Land Use	Electricity Use (kWh/yr)
Phase 1	
Industrial Park	16,483,900
Parking Lot	1,146,350
Phase 2	
Convenience Market with Gas Pumps	62,742
Fast Food Restaurant with Drive Thru	133,887
Industrial Park	4,537,040
Parking Lot	711,073
Unrefridgerated Warehouse-No Rail	2,946,400
Phase 3	
Industrial Park	6,889,010
Unrefridgerated Warehouse-No Rail	1,241,660
Total	**34,152,062 kWh/yr**

Mitigated

	Electricity Use	
Land Use	kWh/yr	to
Industrial Park	1.64839e+007	
Parking Lot	1.14635e+006	
Total		

	Electricity Use
Land Use	kWh/yr
Convenience Market with Gas Pumps	62742.2
Fast Food Restaurant with Drive Thru	133887
Industrial Park	4.53704e+006
Parking Lot	711073
Unrefrigerated Warehouse-No Rail	2.9464e+006
Total	

	Electricity Use
Land Use	kWh/yr
City Park	0
Industrial Park	6.88901e+006
Other Non-Asphalt Surfaces	0
Unrefrigerated Warehouse-No Rail	1.24166e+006
Total	

Typical Construction Trailer - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Typical Construction Trailer

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.72	1000sqft	0.02	720.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	3			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 12'x60' single-wide unit (720 sq ft)

Construction Phase - Typical construction trailer for energy use estimates - estimates are included in the operational component of the results

Off-road Equipment - Zeroed out construction equipment

Trips and VMT -

Architectural Coating -

Vehicle Trips - Zeroed out off-site trips

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products -

Area Coating -

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Landscape Equipment -

Energy Use -

Water And Wastewater -

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

2.0 Emissions Summary

Typical Construction Trailer - Tulare 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					
2024	5.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.0100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2024	5.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.0100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

Typical Construction Trailer - Tulare 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	3-13-2024	6-12-2024	0.0050	0.0050
		Highest	0.0050	0.0050

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	3.3100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	5.0000e-005	4.6000e-004	3.8000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6252	1.6252	1.0000e-004	2.0000e-005	1.6340
Mobile	2.0500e-003	3.0500e-003	0.0181	4.0000e-005	4.7300e-003	3.0000e-005	4.7700e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	3.9106	3.9106	2.1000e-004	2.1000e-004	3.9786
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.1715	0.2121	4.1800e-003	1.0000e-004	0.3466
Total	**5.4100e-003**	**3.5100e-003**	**0.0185**	**4.0000e-005**	**4.7300e-003**	**6.0000e-005**	**4.8000e-003**	**1.2700e-003**	**6.0000e-005**	**1.3300e-003**	**0.1766**	**5.7073**	**5.8839**	**0.0125**	**3.3000e-004**	**6.2961**

Typical Construction Trailer - Tulare County, Annual

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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	3.3100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	5.0000e-005	4.6000e-004	3.8000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6252	1.6252	1.0000e-004	2.0000e-005	1.6340
Mobile	2.0500e-003	3.0500e-003	0.0181	4.0000e-005	4.7300e-003	3.0000e-005	4.7700e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	3.9106	3.9106	2.1000e-004	2.1000e-004	3.9786
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.1715	0.2121	4.1800e-003	1.0000e-004	0.3466
Total	**5.4100e-003**	**3.5100e-003**	**0.0185**	**4.0000e-005**	**4.7300e-003**	**6.0000e-005**	**4.8000e-003**	**1.2700e-003**	**6.0000e-005**	**1.3300e-003**	**0.1766**	**5.7073**	**5.8839**	**0.0125**	**3.3000e-004**	**6.2961**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Architectural Coating	Architectural Coating	3/13/2024	3/19/2024	5	5	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,080; Non-Residential Outdoor: 360; 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

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	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 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	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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3.2 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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3.2 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**	**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

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	2.0500e-003	3.0500e-003	0.0181	4.0000e-005	4.7300e-003	3.0000e-005	4.7700e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	3.9106	3.9106	2.1000e-004	2.1000e-004	3.9786
Unmitigated	2.0500e-003	3.0500e-003	0.0181	4.0000e-005	4.7300e-003	3.0000e-005	4.7700e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	3.9106	3.9106	2.1000e-004	2.1000e-004	3.9786

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7.01	1.59	0.50	12,686	12,686
Total	7.01	1.59	0.50	12,686	12,686

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.538342	0.051819	0.168795	0.151588	0.026524	0.007013	0.012251	0.015932	0.000625	0.000467	0.022272	0.001337	0.003033

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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	1.1288	1.1288	1.0000e-004	1.0000e-005	1.1346
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.1288	1.1288	1.0000e-004	1.0000e-005	1.1346
NaturalGas Mitigated	5.0000e-005	4.6000e-004	3.8000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4964	0.4964	1.0000e-005	1.0000e-005	0.4994
NaturalGas Unmitigated	5.0000e-005	4.6000e-004	3.8000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4964	0.4964	1.0000e-005	1.0000e-005	0.4994

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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	tons/yr										MT/yr					
General Office Building	9302.4	5.0000e-005	4.6000e-004	3.8000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4964	0.4964	1.0000e-005	1.0000e-005	0.4994
Total		**5.0000e-005**	**4.6000e-004**	**3.8000e-004**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.4964**	**0.4964**	**1.0000e-005**	**1.0000e-005**	**0.4994**

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	tons/yr										MT/yr					
General Office Building	9302.4	5.0000e-005	4.6000e-004	3.8000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4964	0.4964	1.0000e-005	1.0000e-005	0.4994
Total		**5.0000e-005**	**4.6000e-004**	**3.8000e-004**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.4964**	**0.4964**	**1.0000e-005**	**1.0000e-005**	**0.4994**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	6364.8	1.1288	1.0000e-004	1.0000e-005	1.1346
Total		**1.1288**	**1.0000e-004**	**1.0000e-005**	**1.1346**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	6364.8	1.1288	1.0000e-004	1.0000e-005	1.1346
Total		**1.1288**	**1.0000e-004**	**1.0000e-005**	**1.1346**

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	3.3100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	3.3100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-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	5.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					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	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**3.3100e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

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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	5.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					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	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**3.3100e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

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	0.2121	4.1800e-003	1.0000e-004	0.3466
Unmitigated	0.2121	4.1800e-003	1.0000e-004	0.3466

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.127968 / 0.0784322	0.2121	4.1800e-003	1.0000e-004	0.3466
Total		**0.2121**	**4.1800e-003**	**1.0000e-004**	**0.3466**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.127968 / 0.0784322	0.2121	4.1800e-003	1.0000e-004	0.3466
Total		**0.2121**	**4.1800e-003**	**1.0000e-004**	**0.3466**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1360	8.0400e-003	0.0000	0.3369
Unmitigated	0.1360	8.0400e-003	0.0000	0.3369

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.67	0.1360	8.0400e-003	0.0000	0.3369
Total		**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.67	0.1360	8.0400e-003	0.0000	0.3369
Total		**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation