Appendix F

Energy Impact Analysis Report

Hesperia Commerce Center II

ENERGY ANALYSIS

CITY OF HESPERIA

PREPARED BY:

Haseeb Qureshi
hqureshi@urbanxroads.com
(949) 336-5987

Alyssa Tamase
atamase@urbanxroads.com
(949) 336-5988

AUGUST 7, 2020

TABLE OF CONTENTS

TABLE OF CONTENTS ..... **I**
APPENDICES ..... **II**
LIST OF EXHIBITS ..... **II**
LIST OF TABLES ..... **II**
LIST OF ABBREVIATED TERMS ..... **III**
EXECUTIVE SUMMARY **1**
ES.1 Summary of Findings 1
1 INTRODUCTION **3**
1.1 Site Location 3
1.2 Project Description 3
2 EXISTING CONDITIONS **7**
2.1 Overview 7
2.2 Electricity 9
2.3 Natural Gas 10
2.4 Transportation Energy Resources 14
3 REGULATORY BACKGROUND **16**
3.1 Federal Regulations 16
3.2 California Regulations 17
4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES **21**
44.1 Evaluation Criteria 21
Increasing reliance on renewable energy sources. 21
4.2 Methodology 21
4.3 Construction Energy Demands 23
4.4 Operational Energy Demands 29
4.5 Summary 34
5 CONCLUSIONS **36**
6 REFERENCES **38**
7 CERTIFICATIONS **41**

APPENDICES

APPENDIX 4.1: CALEEMOD ANNUAL CONSTRUCTION EMISSIONS MODEL OUTPUTS
APPENDIX 4.2: CALEEMOD ANNUAL OPERATIONAL EMISSIONS MODEL OUTPUTS (PASSENGER CARS)
APPENDIX 4.3: CALEEMOD ANNUAL OPERATIONAL EMISSIONS MODEL OUTPUTS (TRUCKS)
APPENDIX 4.4: EMFAC 2014 MODEL OUTPUTS

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP 4
EXHIBIT 1-B: SITE PLAN 5

LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS 1
TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2018) 8
TABLE 2-2: SCE 2018 POWER CONTENT MIX 10
TABLE 4-1: CONSTRUCTION DURATION 22
TABLE 4-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2) 22
TABLE 4-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2) 23
TABLE 4-3: CONSTRUCTION POWER COST 23
TABLE 4-4: CONSTRUCTION ELECTRICITY USAGE 24
TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES 25
TABLE 4-6: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDA) 26
TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT1) 27
TABLE 4-8: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT2) 27
TABLE 4-9: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHDT) 28
TABLE 4-10: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (HHDT) 28
TABLE 4-11: PROJECT-GENERATED LDA VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION 30
TABLE 4-12 PROJECT-GENERATED LDT1 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION 30
TABLE 4-13: PROJECT-GENERATED LDT2 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION 30
TABLE 4-14: PROJECT-GENERATED MDV VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION 31
TABLE 4-15: PROJECT-GENERATED LHDT1 TRAFFIC ANNUAL FUEL CONSUMPTION 31
TABLE 4-16: PROJECT-GENERATED MHDT TRAFFIC ANNUAL FUEL CONSUMPTION 31
TABLE 4-17: PROJECT-GENERATED HHDT TRAFFIC ANNUAL FUEL CONSUMPTION 32
TABLE 4-18: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES) 32
TABLE 4-19: PROJECT ANNUAL OPERATIONAL NATURAL GAS DEMAND SUMMARY 33
TABLE 4-20: PROJECT ANNUAL OPERATIONAL ELECTRICITY DEMAND SUMMARY 33

LIST OF ABBREVIATED TERMS

(1)	Reference
AQIA	Air Quality Impact Analysis
BACM	Best Available Control Measures
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EIA	Energy Information Administration
EIR	Environmental Impact Report
EMFAC	Emissions Factor
FERC	Federal Energy Regulatory Commission
GPA	General Plan Amendment
GS-1	General Service Rate Schedule
GWh	Gigawatt Hour
HHDT	Heavy-Heavy Duty
Hp-hr-gal	Horsepower-Hour Per Gallon
IEPR	Integrative Energy Policy Report
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
kBTU	Kilo-British Thermal Units
kWh	Kilowatt Hour
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
MDV	Medium Duty Trucks
MHDT	Medium-Heavy Duty Trucks
mpg	Miles Per Gallon
MPO	Metropolitan Planning Organization
PG&E	Pacific Gas and Electric
Project	Hesperia Commerce Center II
SCE	Southern California Edison
SDAB	San Diego Air Basin
SDG&E	San Diego Gas and Electric
sf	Square Feet

SoCalGas	Southern California Gas
TEA-21	Transportation Equity Act for the 21st Century
VMT	Vehicle Miles Traveled

This page intentionally left blank

EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Hesperia Commerce Center II Energy Analysis* is summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1). Table ES-1 shows the findings of significance for potential energy impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Energy Impact #1: Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.	5.0	*Less Than Significant*	*n/a*
Energy Impact #2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.	5.0	*Less Than Significant*	*n/a*

This page intentionally left blank

1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Hesperia Commerce Center II (Project). The purpose of this report is to ensure that energy implication is considered by the City of Hesperia, as the lead agency, and to quantify anticipated energy usage associated with construction of the proposed Project, determine if the usage amounts are efficient, typical, or wasteful for the land use type, and to emphasize avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy.

1.1 SITE LOCATION

The proposed project is located north of Phelan Road and west of US Highway 395 in the City of Hesperia. The Project location is shown on Exhibit 1-A. The Project Site is generally located in an undeveloped rural area with some residential homes located to the west and south.

1.2 PROJECT DESCRIPTION

The proposed Project consists of the following uses:

- 2,361,648 square feet (sf) of High-Cube Fulfillment Center use (65% of the total square footage of Building 1 and Building 2)
- 1,383,781 sf of General Light Industrial use; 1,271,656 sf within Building 1 and Building 2 (35% of the total square footage of Building 1 and Building 2) and 112,125 sf within Building 3

The Project is anticipated to be developed within a single phase with an anticipated opening year of 2021. Regional access to the Project site is available from the I-15 Freeway at the Main Street interchange. At the time this energy study was prepared, the future tenants of the proposed Project were unknown.

This energy study is intended to describe energy usage associated with the expected typical operational activities at the Project site. To present a conservative approach, this report assumes the Project will operate 24-hours daily for seven days per week.

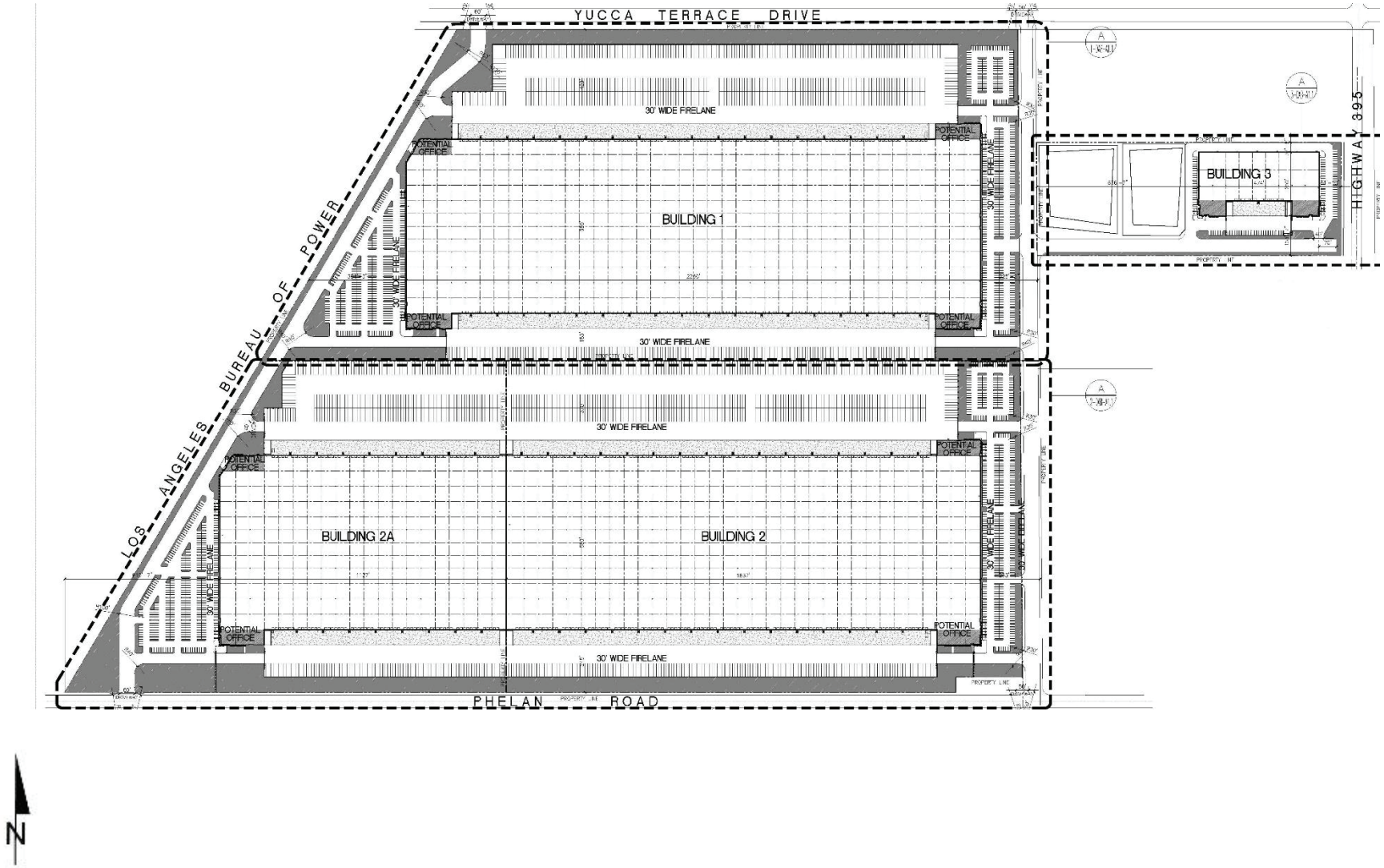
EXHIBIT 1-A: LOCATION MAP

N

LEGEND:

Site Boundary

EXHIBIT 1-B: SITE PLAN



This page intentionally left blank

2 EXISTING CONDITIONS

This section provides an overview of the existing energy conditions in the Project region.

2.1 OVERVIEW

The most recent data for California's estimated total energy consumption is from 2017 and natural gas consumption is from 2018, released by the United States (U.S.) Energy Information Administration's (EIA) California State Profile and Energy Estimates in 2020 and included:

- Approximately 7,881 trillion British Thermal Unit (BTU) of energy was consumed;
- Approximately 683 million barrels of petroleum;
- Approximately 2,137 billion cubic feet of natural gas;
- Approximately 1 million short tons of coal (2)

The California Energy Commission's (CEC) Transportation Energy Demand Forecast 2018-2030 was released in order to support the 2017 Integrated Energy Policy Report. The Transportation energy Demand Forecast 2018-2030 lays out graphs and data supporting their projections of California's future transportation energy demand. The projected inputs consider expected variable changes in fuel prices, income, population, and other variables. Predictions regarding fuel demand included:

- Gasoline demand in the transportation sector is expected to decline from approximately 15.8 billion gallons in 2017 to between 12.3 billion and 12.7 billion gallons in 2030 (3)
- Diesel demand in the transportation sector is expected to rise, increasing from approximately 3.7 billion diesel gallons in 2015 to approximately 4.7 billion in 2030 (3)
    - Data from the Department of Energy states that approximately 3.9 billion gallons of diesel fuel were consumed in 2017 (4)

The most recent data provided by the EIA for energy use in California by demand sector is from 2017 and is reported as follows:

- Approximately 40.3% transportation;
- Approximately 23.1% industrial;
- Approximately 18.0% residential; and
- Approximately 18.7% commercial (5)

In 2018, total system electric generation for California was 285,488 gigawatt hours (GWh). California's massive electricity in-state generation system generated approximately 194,842 GWh which accounted for approximately 68% of the electricity it uses; the rest was imported from the Pacific Northwest (14%) and the U.S. Southwest (18%) (6). Natural gas is the main source for electricity generation at 47% of the total in-state electric generation system power as shown in Table 2-1.

TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2018)

Fuel Type	California In-State Generation	Percent of California In-State	Northwest Imports (GWh)	Southwest Imports (GWh)	California Power Mix (GWh)	Percent California Power Mix
Coal	294	0.15%	399	8,740	9,433	3.30%
Large Hydro	22,096	11.34%	7,418	985	30,499	10.68%
Natural Gas	90,691	46.54%	49	8,904	99,644	34.91%
Nuclear	18,268	9.38%	0	7,573	25,841	9.05%
Oil	35	0.02%	0	0	35	0.01%
Other	430	0.22%	0	9	439	0.15%
Renewables	63,028	32.35%	14,074	12,400	89,502	31.36%
Biomass	5,909	3.03%	772	26	6,707	2.35%
Geothermal	11,528	5.92%	171	1,269	12,968	4.54%
Small Hydro	4,248	2.18%	334	1	4,583	1.61%
Solar	27,265	13.99%	174	5,094	32,533	11.40%
Wind	14,078	7.23%	12,623	6,010	32,711	11.46%
Unspecified Sources of Power	N/A	N/A	17,576	12,519	30,095	10.54%
Total	**194,842**	**100%**	**39,517**	**51,130**	**285,488**	**100%**

Source: https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html

An updated summary of, and context for energy consumption and energy demands within the State is presented in "U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts" excerpted below:

- California was the seventh-largest producer of crude oil among the 50 states in 2018, and, as of January 2019, it ranked third in oil refining capacity.
- California is the largest consumer of jet fuel among the 50 states and accounted for one-fifth of the nation's jet fuel consumption in 2018. (7)
- California's total energy consumption is second highest in the nation, but, in 2018, the state's per capita energy consumption was the fourth-lowest, due in part to its mild climate and its energy efficiency programs. (8)
- In 2018, California ranked first in the nation as a producer of electricity from solar, geothermal, and biomass resources and fourth in the nation in conventional hydroelectric power generation.
- In 2018, large- and small-scale solar photovoltaic (PV) and solar thermal installations provided 19% of California's net electricity generation (9).

As indicated above, California is one of the nation's leading energy-producing states, and California's per capita energy use is among the nation's most efficient. Given the nature of the Project, the remainder of this discussion will focus on the three sources of energy that are most relevant to the project—namely, electricity, natural gas, and transportation fuel for vehicle trips associated with the uses planned for the Project.

2.2 ELECTRICITY

The usage associated with electricity use were calculated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. The Southern California region's electricity reliability has been of concern for the past several years due to the planned retirement of aging facilities that depend upon once-through cooling technologies, as well as the June 2013 retirement of the San Onofre Nuclear Generating Station (San Onofre). While the once-through cooling phase-out has been ongoing since the May 2010 adoption of the State Water Resources Control Board's once-through cooling policy, the retirement of San Onofre complicated the situation. California ISO studies revealed the extent to which the South California Air Basin (SCAB) and the San Diego Air Basin (SDAB) region were vulnerable to low-voltage and post-transient voltage instability concerns. A preliminary plan to address these issues was detailed in the 2013 Integrative Energy Policy Report (IEPR) after a collaborative process with other energy agencies, utilities, and air districts (10). Similarly, the 2019 and 2019 IEPR's identify broad strategies that are aimed at maintaining electricity system reliability.

Electricity is provided to the Project by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons in 15 counties and in 180 incorporated cities, within a service area encompassing approximately 50,000 square miles. Based on SCE's 2018 Power Content Label Mix, SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers (11).

California's electricity industry is an organization of traditional utilities, private generating companies, and state agencies, each with a variety of roles and responsibilities to ensure that electrical power is provided to consumers. The California Independent Service Operator (ISO) is a nonprofit public benefit corporation and is the impartial operator of the State's wholesale power grid and is charged with maintaining grid reliability, and to direct uninterrupted electrical energy supplies to California's homes and communities. While utilities [such as SCE] still own transmission assets, the ISO routes electrical power along these assets, maximizing the use of the transmission system and its power generation resources. The ISO matches buyers and sellers of electricity to ensure that enough power is available to meet demand. To these ends, every five minutes the ISO forecasts electrical demands, accounts for operating reserves, and assigns the lowest cost power plant unit to meet demands while ensuring adequate system transmission capacities and capabilities (12).

Part of the ISO's charge is to plan and coordinate grid enhancements to ensure that electrical power is provided to California consumers. To this end, transmission owners (investor-owned utilities such as SCE) file annual transmission expansion/modification plans to accommodate the

State's growing electrical needs. The ISO reviews and either approves or denies the proposed additions. In addition, and perhaps most importantly, the ISO works with other areas in the western United States electrical grid to ensure that adequate power supplies are available to the State. In this manner, continuing reliable and affordable electrical power is assured to existing and new consumers throughout the State.

Table 2-2 identifies SCE's specific proportional shares of electricity sources in 2018. As indicated in Table 2-2, the 2018 SCE Power Mix has renewable energy at 36% of the overall energy resources. Geothermal resources are at 8%, wind power is at 13%, large hydroelectric sources are at 1%, solar energy is at 13%, and coal is at 0%. Biomass and waste sources have increased by 1% since 2017. Natural gas remains at 17% since 2017 (13).

TABLE 2-2: SCE 2018 POWER CONTENT MIX

Energy Resources	2018 SCE Power Mix
Eligible Renewable	**36%**
Biomass & waste	1%
Geothermal	8%
Small Hydroelectric	1%
Solar	13%
Wind	13%
Coal	**0%**
Large Hydroelectric	**4%**
Natural Gas	**17%**
Nuclear	**6%**
Other	**0%**
Unspecified Sources of power*	37%
Total	**100%**

* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources

2.3 NATURAL GAS

The usage associated with natural gas use were calculated using the CalEEMod Version 2016.3.2. The following summary of natural gas customers & volumes, supplies, delivery of supplies, storage, service options, and operations is excerpted from information provided by the California Public Utilities Commission (CPUC).

> *"The CPUC regulates natural gas utility service for approximately 10.8 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller natural*

gas utilities. The CPUC also regulates independent storage operators: Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.

California's natural gas utilities provide service to over 11 million gas meters. SoCalGas and PG&E provide service to about 5.9 million and 4.3 million customers, respectively, while SDG&E provides service to over 800, 000 customers. In 2018, California gas utilities forecasted that they would deliver about 4740 million cubic feet per day (MMcfd) of gas to their customers, on average, under normal weather conditions.

The overwhelming majority of natural gas utility customers in California are residential and small commercials customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers consume about 65% of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35%.

A significant amount of gas (about 19%, or 1131 MMcfd, of the total forecasted California consumption in 2018) is also directly delivered to some California large volume consumers, without being transported over the regulated utility pipeline system. Those customers, referred to as "bypass" customers, take service directly from interstate pipelines or directly from California producers.

SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, i.e. they receive deliveries of gas from SoCalGas and in turn deliver that gas to their own customers. (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area.) Similarly, West Coast Gas, a small gas utility, is a wholesale customer of PG&E. Some other wholesale customers are municipalities like the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

Natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines that deliver out-of-state natural gas to California gas utilities are Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Mojave Pipeline, and Tuscarora. Another pipeline, the North Baja - Baja Norte Pipeline takes gas off the El Paso Pipeline at the California/Arizona border, and delivers that gas through California into Mexico. While the Federal Energy Regulatory Commission (FERC) regulates the transportation of natural gas on the interstate pipelines, and authorizes rates for that service, the CPUC may participate in FERC regulatory proceedings to represent the interests of California natural gas consumers.

The gas transported to California gas utilities via the interstate pipelines, as well as some of the California-produced gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipelines systems (commonly referred to as California's "backbone" pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered to the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large volume noncore customers take natural gas delivery directly off the

high-pressure backbone and local transmission pipeline systems, while core customers and other noncore customers take delivery off the utilities' distribution pipeline systems. The state's natural gas utilities operate over 100,000 miles of transmission and distribution pipelines, and thousands more miles of service lines.

Bypass customers take most of their deliveries directly off the Kern/Mojave pipeline system, but they also take a significant amount of gas from California production

PG&E and SoCalGas own and operate several natural gas storage fields that are located within their service territories in northern and southern California, respectively. These storage fields, and four independently owned storage utilities - Lodi Gas Storage, Wild Goose Storage, Central Valley Storage, and Gill Ranch Storage - help meet peak seasonal and daily natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. PG&E is a 25% owner of the Gill Ranch Storage field. These storage fields provide a significant amount of infrastructure capacity to help meet California's natural gas requirements, and without these storage fields, California would need much more pipeline capacity in order to meet peak gas requirements .

Prior to the late 1980s, California regulated utilities provided virtually all natural gas services to all their customers. Since then, the Commission has gradually restructured the California gas industry in order to give customers more options while assuring regulatory protections for those customers that wish to, or are required to, continue receiving utility-provided services.

The option to purchase natural gas from independent suppliers is one of the results of this restructuring process. Although the regulated utilities procure natural gas supplies for most core customers, core customers have the option to purchase natural gas from independent natural gas marketers, called "core transport agents" (CTA). Contact information for core transport agents can be found on the utilities' web sites. Noncore customers, on the other hand, make natural gas supply arrangements directly with producers or with marketers.

Another option resulting from the restructuring process occurred in 1993, when the Commission removed the utilities' storage service responsibility for noncore customers, along with the cost of this service from noncore customers' transportation rates. The Commission also encouraged the development of independent storage fields, and in subsequent years, all the independent storage fields in California were established. Noncore customers and marketers may now take storage service from the utility or from an independent storage provider (if available), and pay for that service, or may opt to take no storage service at all. For core customers, the Commission assures that the utility has adequate storage capacity set aside to meet core requirements, and core customers pay for that service.

In a 1997 decision, the Commission adopted PG&E's "Gas Accord", which unbundled PG&E's backbone transmission costs from noncore transportation rates. This decision gave customers and marketers the opportunity to obtain pipeline capacity rights on

PG&E's backbone transmission pipeline system, if desired, and pay for that service at rates authorized by the Commission. The Gas Accord also required PG&E to set aside a certain amount of backbone transmission capacity in order to deliver gas to its core customers. Subsequent Commission decisions modified and extended the initial terms of the Gas Accord. The "Gas Accord" framework is still in place today for PG&E's backbone and storage rates and services and is now simply referred to as PG&E Gas Transmission and Storage (GT&S).

In a 2006 decision, the Commission adopted a similar gas transmission framework for Southern California, called the "firm access rights" system. SoCalGas and SDG&E implemented the firm access rights (FAR) system in 2008, and it is now referred to as the backbone transmission system (BTS) framework. As under the PG&E backbone transmission system, SoCalGas backbone transmission costs are unbundled from noncore transportation rates. Noncore customers and marketers may obtain, and pay for, firm backbone transmission capacity at various receipt points on the SoCalGas system. A certain amount of backbone transmission capacity is obtained for core customers to assure meeting their requirements.

Many if not most noncore customers now use a marketer to provide for several of the services formerly provided by the utility. That is, a noncore customer may simply arrange for a marketer to procure its supplies, and obtain any needed storage and backbone transmission capacity, in order to assure that it will receive its needed deliveries of natural gas supplies. Core customers still mainly rely on the utilities for procurement service, but they have the option to take procurement service from a CTA. Backbone transmission and storage capacity is either set aside or obtained for core customers in amounts to assure very high levels of service.

In order properly operate their natural gas transmission pipeline and storage systems, PG&E and SoCalGas must balance the amount of gas received into the pipeline system and delivered to customers or to storage fields. Some of these utilities' storage capacity is dedicated to this service, and under most circumstances, customers do not need to precisely match their deliveries with their consumption. However, when too much or too little gas is expected to be delivered into the utilities' systems, relative to the amount being consumed, the utilities require customers to more precisely match up their deliveries with their consumption. And, if customers do not meet certain delivery requirements, they could face financial penalties. The utilities do not profit from these financial penalties - the amounts are then returned to customers as a whole. If the utilities find that they are unable to deliver all the gas that is expected to be consumed, they may even call for a curtailment of some gas deliveries. These curtailments are typically required for just the largest, noncore customers. It has been many years since there has been a significant curtailment of core customers in California ." (14)

As indicated in the preceding discussions, natural gas is available from a variety of in-state and out-of-state sources and is provided throughout the state in response to market supply and demand. Complementing available natural gas resources, biogas may soon be available via existing delivery systems, thereby increasing the availability and reliability of resources in total.

The CPUC oversees utility purchases and transmission of natural gas to ensure reliable and affordable natural gas deliveries to existing and new consumers throughout the State.

2.4 TRANSPORTATION ENERGY RESOURCES

The Project would generate additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. In March 2019, the Department of Motor Vehicles (DMV) identified 36.4 million registered vehicles in California (15), and those vehicles consume an estimated 17.8 billion gallons of fuel each year[1]. Gasoline (and other vehicle fuels) are commercially provided commodities and would be available to the Project patrons and employees via commercial outlets.

California's on-road transportation system includes 394,383 land miles, more than 27.5 million passenger vehicles and light trucks, and almost 8.1 million medium- and heavy-duty vehicles (15). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 91% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (16). Nearly 17.8 billion gallons of on-highway fuel are burned each year, including 14.6 billion gallons of gasoline (including ethanol) and 3.2 billion gallons of diesel fuel (including biodiesel and renewable diesel). In 2019, Californians also used 194 million cubic feet of natural gas as a transportation fuel (17), or the equivalent of 183 billion gallons of gasoline.

[1] Fuel consumptions estimated utilizing information from EMFAC2017.

This page intentionally left blank

3 REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency (EPA) are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the CEC are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below. Project consistency with applicable federal and state regulations is also presented in *italicized* text.

3.1 FEDERAL REGULATIONS

3.1.1 INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991 (ISTEA)

The ISTEA promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions.

Transportation and access to the Project sites are provided by the local and regional roadway systems. The Project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be realized pursuant to the ISTEA because SCAG is not planning for intermodal facilities on or through the Project sites.

3.1.2 THE TRANSPORTATION EQUITY ACT FOR THE 21ST CENTURY (TEA-21)

The TEA-21 was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation, discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety.

The Project sites are located along major transportation corridors with proximate access to the Interstate freeway system. The sites selected for the Project facilitates access, acts to reduce vehicle miles traveled (VMT), takes advantage of existing infrastructure systems, and promotes land use compatibilities through collocation of similar uses. The Project supports the strong planning processes emphasized under TEA-21. The Project is therefore consistent with, and would not otherwise interfere with, nor obstruct implementation of TEA-21.

3.2 CALIFORNIA REGULATIONS

3.2.1 INTEGRATED ENERGY POLICY REPORT (IEPR)

Senate Bill 1389 (Bowen, Chapter 568, Statutes of 2002) requires the CEC to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety (Public Resources Code § 25301a]). The Energy Commission prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The 2019 IEPR was adopted January 31, 2020, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2019 IEPR focuses on a variety of topics such as including the environmental performance of the electricity generation system, landscape-scale planning, the response to the gas leak at the Aliso Canyon natural gas storage facility, transportation fuel supply reliability issues, updates on Southern California electricity reliability, methane leakage, climate adaptation activities for the energy sector, climate and sea level rise scenarios, and the California Energy Demand Forecast (18). The 2020 IEPR Update is currently in progress but is not anticipated to be adopted until February 2021.

Electricity would be provided to the Project by SCE and natural gas is provided by SoCalGas. SCE's Clean Power and Electrification Pathway (CPEP) white paper and SoCalGas 2018 Corporate Sustainability Report builds on existing state programs and policies. As such, the Project is consistent with, and would not otherwise interfere with, nor obstruct implementation the goals presented in the 2019 IEPR.

3.2.2 STATE OF CALIFORNIA ENERGY PLAN

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies several strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

The Project sites are located along major transportation corridors with proximate access to the Interstate freeway system. The sites selected for the Project facilitates access, acts to reduce VMT by developing industrial uses on a commercial/industrial business park-designated site. The Project therefore is consistent with, and would not otherwise interfere with, nor obstruct implementation of the State of California Energy Plan.

3.2.3 California Code Title 24, Part 6, Energy Efficiency Standards

California Code of Regulations (CCR) 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 greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. The 2019 Title 24 standards go into effect on January 1, 2020 and are applicable to building permit applications submitted on or after that date. The 2019 Title 24 standards require solar PV systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, update indoor and outdoor lighting for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7% less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar PV systems, homes built under the 2019 standards will about 53% less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30% less energy due to lighting upgrades compared to the prior code (19).

The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020. It should be noted that the analysis herein assumes compliance with the 2019 Title 24 Standards.

3.2.4 AB 1493 Pavley Regulations and Fuel Efficiency Standards

California AB 1493, enacted on July 22, 2002, required California Air Resources Board (CARB) to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Under this legislation, CARB adopted regulations to reduce GHG emissions from non-commercial passenger vehicles (cars and light-duty trucks). Although aimed at reducing GHG emissions, specifically, a co-benefit of the Pavley standards is an improvement in fuel efficiency and consequently a reduction in fuel consumption.

AB 1493 is not applicable to the Project as it is a statewide measure establishing vehicle emissions standards. No feature of the Project would interfere with implementation of the requirements under AB 1493.

3.2.5 California's Renewable Portfolio Standard (RPS)

First established in 2002 under Senate Bill (SB) 1078, California's Renewable Portfolio Standards (RPS) requires retail sellers of electric services to increase procurement from eligible renewable resources to 33 percent (%) of total retail sales by 2020 (20).

California's Renewable Portfolio Standard is not applicable to the Project as it is a statewide measure that establishes a renewable energy mix. No feature of the Project would interfere with implementation of the requirements under RPS.

3.2.6 SB 350— CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015

In October 2015, the 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 renewables portfolio standard (RPS), higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for electric vehicle charging stations. Provisions for a 50% reduction in the use of petroleum statewide were removed from the Bill because of opposition and concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33% to 50% by 2030, with interim targets of 40% by 2024, and 25% 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 (ISO) 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 (California Leginfo 2015).

This measure is not directly applicable to development projects, but the proposed Project would use energy from Southern California Edison, which has committed to diversify its portfolio of energy sources by increasing energy from wind and solar sources.

This page intentionally left blank

4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

44.1 EVALUATION CRITERIA

In compliance with Appendix G of the *State CEQA Guidelines* (21), this report analyzes the project's anticipated energy use to determine if the 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

In addition, Appendix F of the *State CEQA Guidelines* (22), states that the means of achieving the goal of energy conservation includes the following:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas and oil; and

INCREASING RELIANCE ON RENEWABLE ENERGY SOURCES.

4.2 METHODOLOGY

Information from the CalEEMod outputs for the *Hesperia Commerce Center II Air Quality Impact Analysis* (Urban Crossroads, Inc.) (AQIA) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands (23).

4.2.1 CALEEMOD

On October 17, 2017, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources as well as energy usage. (24). Accordingly, the latest version of CalEEMod has been used to determine the proposed Project's anticipated transportation and facility energy demands. Output from the annual construction model runs are provided in Appendices 4.1 and Appendices 4.2 and 4.3 for annual operational emissions.

4.2.2 EMISSION FACTORS MODEL

On August 19, 2019, the EPA approved the 2017 version of the EMissions FACtor model (EMFAC) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (25). This energy study utilizes the different fuel types for each vehicle class from the annual EMFAC2017 emission inventory in order to derive the average vehicle fuel economy which is then used to determine the estimated annual fuel consumption associated

with vehicle usage during Project construction and operational activities. For purposes of analysis, the 2021 analysis year was utilized to determine the average vehicle fuel economy used throughout the duration of the Project.

4.2.3 CONSTRUCTION DURATION

Construction is expected to commence in January 2021 and will last through November 2021. Construction duration by phase is shown on Table 4-1.

TABLE 4-1: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Site Preparation	01/04/2021	01/29/2021	20
Grading	01/30/2021	03/12/2021	30
Building Construction	03/13/2021	11/19/2021	180
Paving	07/03/2021	11/19/2021	100
Architectural Coating	04/24/2021	11/19/2021	150

4.2.4 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment was generally based on CalEEMod defaults. A detailed summary of construction equipment assumptions by phase is provided at Table 4-2.

TABLE 4-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

Phase Name	Equipment	Number	Hours Per Day
Site Preparation	Rubber Tired Dozers	3	8
	Tractors/Loaders/Backhoes	4	8
Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8

TABLE 4-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)

Phase Name	Equipment	Number	Hours Per Day
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

4.3 CONSTRUCTION ENERGY DEMANDS

4.3.1 CONSTRUCTION EQUIPMENT ELECTRICITY USAGE ESTIMATES

The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed Project. Based on the *2017 National Construction Estimator*, Richard Pray (2017) (26), the typical power cost per 1,000 sf of construction per month is estimated to be $2.32. For the Hesperia Commerce Center II development, the Project plans to develop approximately 2,361,648 sf of High-Cube Fulfillment Center use, 1,383,781 sf of General Light Industrial use, 1,631 parking spaces, 593,998 sf of landscaped area, and 3,493,865 sf of other asphalt surfaces[2] over the course of 10 months. Based on Table 4-3, the total power cost of the on-site electricity usage during the construction of the Project is estimated to be approximately $196,868.05.

TABLE 4-3: CONSTRUCTION POWER COST

Land Use	**Power Cost** (per 1,000 SF of construction per month)	**Size** (1,000 SF)	**Construction Duration** (months)	**Project Construction Power Cost**
General Light Industrial	$2.32	1,383.781	10	$32,103.73
High-Cube Fulfillment Center Warehouse	$2.32	2,361.648	10	$54,790.22
Landscape	$2.32	593.998	10	$13,780.76
Parking	$2.32	652.400	10	$15,135.68
Other Asphalt Surfaces	$2.32	3,493.865	10	$81,057.66
PROJECT CONSTRUCTION POWER COST				***$196,868.05***

The SCE's general service rate schedule were used to determine the Project's electrical usage. As of January 1, 2020, SCE's general service rate is $0.08 per kilowatt hours (kWh) of electricity for industrial services (27). Though no physical structure is anticipated, electricity usage related to construction of the Project was based on the calculated construction power cost (identified in Table 4-3) and the SCE cost per kWh. This approach was taken in order to conservatively identify

[2] The total Project area is 8,485,692 sf (194.80 acres). For purposes of analysis, the remaining 3,493,865 sf (Total Area – (Building Area + Parking Area + Landscaped Area) will be modeled as Other Asphalt Surfaces. These surfaces are defined as an asphalt area not used as a parking lot

electricity usage from construction activities. As such, Table 4-4 identifies the total electricity usage from on-site Project construction related activities is estimated to be approximately 2,464,085 kWh.

TABLE 4-4: CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
General Light Industrial	$0.08	401,824
High-Cube Fulfillment Center Warehouse	$0.08	685,778
Landscape	$0.08	172,486
Parking	$0.08	189,445
Other Asphalt Surfaces	$0.08	1,014,552
PROJECT CONSTRUCTION ELECTRICTY USAGE (kWh)		***2,464,085***

4.3.2 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction. Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-5. Eight-hour daily use of all equipment is assumed. The aggregate fuel consumption rate for all equipment is estimated at 18.5 horsepower hour per gallon (hp-hr-gal.), obtained from CARB 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines (28). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered which is standard practice consistent with industry standards. Diesel fuel would be supplied by existing commercial fuel providers serving the City of Hesperia and region.

As presented in Table 4-5, Project construction activities would consume an estimated 84,769 gallons of diesel fuel. Project construction would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES

Phase Name	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
Site Preparation	20	Rubber Tired Dozers	247	3	8	0.40	2,371	2,563
		Tractors/Loaders/Backhoes	97	4	8	0.37	1,148	1,242
Grading	30	Excavators	158	4	8	0.38	1,921	3,116
		Graders	187	2	8	0.41	1,227	1,989
		Rubber Tired Dozers	247	2	8	0.40	1,581	2,563
		Scrapers	367	4	8	0.48	5,637	9,141
		Tractors/Loaders/Backhoes	97	4	8	0.37	1,148	1,862
Building Construction	180	Cranes	231	2	8	0.29	1,072	10,429
		Forklifts	89	6	8	0.20	854	8,313
		Generator Sets	84	2	8	0.74	995	9,677
		Tractors/Loaders/Backhoes	97	6	8	0.37	1,723	16,762
		Welders	46	2	8	0.45	331	3,222
Paving	100	Pavers	130	2	8	0.42	874	4,722
		Paving Equipment	132	2	8	0.36	760	4,110
		Rollers	80	2	8	0.38	486	2,629
Architectural Coating	150	Air Compressors	78	1	8	0.48	300	2,429
PROJECT CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)								***84,769***

4.3.3 CONSTRUCTION WORKER FUEL ESTIMATES

With respect to estimated VMT for the Project, the construction worker trips would generate an estimated 5,827,374 VMT (23). Based on CalEEMod methodology, it is assumed that 50% of all vendor trips are from light-duty-auto vehicles (LDA), 25% are from light-duty-trucks (LDT1[3]), and 25% are from light-duty-trucks (LDT2[4]). Data regarding Project related construction worker trips were based on CalEEMod defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA, LDT1, and LDT2 were estimated using information generated within the 2017 version of the EMFAC developed by CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (25). EMFAC2017 was run for the LDA, LDT1, and LDT2 vehicle class within the California sub-area for the 2021 calendar year. Data from EMFAC2017 is shown in Appendix 4.4.

As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2021 are estimated to have a fuel efficiency of 31.55 miles per gallon (mpg). Table 4-6 provides an estimated annual fuel consumption resulting from Project-related construction worker trips. Based on Table 4-6, it is estimated that 92,274 gallons of fuel will be consumed related to construction worker trips (LDA) during full construction of the Project.

TABLE 4-6: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDA)

Phase Name	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Site Preparation	20	9	14.7	2,646	31.55	84
Grading	30	20	14.7	8,820	31.55	280
Building Construction	180	891	14.7	2,357,586	31.55	74,719
Paving	150	8	14.7	17,640	31.55	559
Architectural Coating	100	357	14.7	524,790	31.55	16,632
PROJECT CONSTRUCTION WORKER (LDA) FUEL CONSUMPTION						***92,274***

The EMFAC2017 aggregated fuel economy of LDT1s ranging from model year 1974 to model year 2021 are estimated to have a fuel efficiency of 26.54 mpg. Table 4-7 provides an estimated annual fuel consumption resulting from LDT1s related to the Project construction worker trips. Based on Table 4-7, it is estimated that 54,925 gallons of will be consumed related to construction worker trips (LDT1) during full construction of the Project.

[3] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[4] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT1)

Phase Name	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Site Preparation	20	5	14.7	1,470	26.54	55
Grading	30	10	14.7	4,410	26.54	166
Building Construction	180	446	14.7	1,180,116	26.54	44,458
Paving	150	4	14.7	8,820	26.54	332
Architectural Coating	100	179	14.7	263,130	26.54	9,913
PROJECT CONSTRUCTION WORKER (LDT1) FUEL CONSUMPTION						***54,925***

The EMFAC2017 aggregated fuel economy of LDT2s ranging from model year 1974 to model year 2021 are estimated to have a fuel efficiency of 24.56 mpg. Table 4-8 provides an estimated annual fuel consumption resulting from LDT2s related to the Project construction worker trips. Based on Table 4-8, it is estimated that 59,368 gallons of will be consumed related to construction worker trips (LDT2) during full construction of the Project.

TABLE 4-8: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT2)

Phase Name	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Site Preparation	20	5	14.7	1,470	24.56	60
Grading	30	10	14.7	4,410	24.56	180
Building Construction	180	446	14.7	1,180,116	24.56	48,054
Paving	150	4	14.7	8,820	24.56	359
Architectural Coating	100	179	14.7	263,130	24.56	10,715
PROJECT CONSTRUCTION WORKER (LDT2) FUEL CONSUMPTION						***59,368***

[A] Trip has been rounded up.

It should be noted that construction worker trips would represent a “single-event” gasoline fuel demand and would not require on-going or permanent commitment of fuel resources for this purpose.

4.3.4 CONSTRUCTION VENDOR FUEL ESTIMATES

With respect to estimated VMT, the construction vendor trips would generate an estimated 864,432 VMT along area roadways for the Project (23). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHDT) and 50% are from heavy-heavy duty trucks (HHDT). These assumptions are consistent with the CalEEMod defaults utilized within the within the AQIA (23). Vehicle fuel efficiencies for MHDTs and HHDTs were estimated using information generated within EMFAC2017. As all vendor activities occur during 2021, EMFAC2017 was run for the MHDT and HHDT vehicle class within the California sub-area for the 2021 calendar year. Data from EMFAC2017 is shown in Appendix 4.4.

As generated by EMFAC2017, an aggregated fuel economy of MHDTs ranging from model year 1974 to model year 2021 are estimated to have a fuel efficiency of 8.47 mpg. Based on Table 4-9, it is estimated that 51,055 gallons of fuel will be consumed related to construction vendor trips (MHDTs) during full construction of the Project.

TABLE 4-9: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHDT)

Phase Name	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Building Construction	180	348	6.9	432,216	8.47	51,055
PROJECT VENDOR (MHDT) TOTAL FUEL CONSUMPTION						***51,055***

As generated by EMFAC2017, an aggregated fuel economy of HHDTs ranging from model year 1974 to model year 2021 are estimated to have a fuel efficiency of 6.98 mpg. Based on Table 4-10, it is estimated that 61,917 gallons of fuel will be consumed related to construction vendor trips (HHDTs) during full construction of the Project.

TABLE 4-10: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (HHDT)

Phase Name	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Building Construction	180	348	6.9	432,216	6.98	61,917
PROJECT VENDOR (HHDT) TOTAL FUEL CONSUMPTION						***61,917***

It should be noted that Project construction vendor trips would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

4.3.5 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

The equipment used for Project construction would conform to CARB regulations and California emissions standards. There are no unusual Project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the Project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The Project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with anti-idling and emissions regulations would result in a more efficient use of construction-related energy and the minimization or elimination of wasteful or unnecessary consumption of energy. Idling restrictions

and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additionally, certain incidental construction-source energy efficiencies would likely accrue through implementation of California regulations and best available control measures (BACM). More specifically, CCR Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. To this end, "grading plans shall reference the requirement that a sign shall be posted on-site stating that construction workers need to shut off engines at or before five minutes of idling." In this manner, construction equipment operators are informed that engines are to be turned off at or prior to five minutes of idling. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

Indirectly, construction energy efficiencies and energy conservation would be achieved for the proposed development through energy efficiencies realized from bulk purchase, transport and use of construction materials.

A full analysis related to the energy needed to form construction materials is not included in this analysis due to a lack of detailed Project-specific information on construction materials. At this time, an analysis of the energy needed to create Project-related construction materials would be extremely speculative and thus has not been prepared.

In general, the construction processes promote conservation and efficient use of energy by reducing raw materials demands, with related reduction in energy demands associated with raw materials extraction, transportation, processing and refinement. Use of materials in bulk reduces energy demands associated with preparation and transport of construction materials as well as the transport and disposal of construction waste and solid waste in general, with corollary reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations.

4.4 Operational Energy Demands

Energy consumption in support of or related to Project operations would include transportation energy demands (energy consumed by resident, employee, and patron vehicles accessing the Project sites) and facilities energy demands (energy consumed by building operations and site maintenance activities).

4.4.1 Transportation Energy Demands

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project sites.

Light-Duty Autos

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 19,474,148 annual VMT along area roadways for all LDAs with full build-out of the Project (23). Table 4-11 provides an

estimated range of annual fuel consumption resulting from Project generated LDAs. Based on Table 4-11, it is estimated that 617,195 gallons of fuel will be consumed from Project generated LDA trips.

TABLE 4-11: PROJECT-GENERATED LDA VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
19,474,148	31.55	617,195

LIGHT-DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 1,314,803 annual VMT along area roadways for all Light-Duty Trucks (LDT1)[5] vehicles with full build-out of the Project (23). Table 4-12 provides an estimated range of annual fuel consumption resulting from Project generated LDT1s. Based on Table 4-12, it is estimated that 49,532 gallons of fuel will be consumed from Project generated LDT1 trips.

TABLE 4-12 PROJECT-GENERATED LDT1 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
1,314,803	26.54	49,532

Additionally, the Project would generate an estimated 6,360,635 annual VMT along area roadways for all LDT2[6] vehicles with full build-out of the Project (23). Table 4-13 provides an estimated range of annual fuel consumption resulting from Project generated LDT2s. Based on Table 4-13, it is estimated that 259,005 gallons of fuel will be consumed from Project generated LDT2 trips.

TABLE 4-13: PROJECT-GENERATED LDT2 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
6,360,635	24.56	259,005

MEDIUM-DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 4,229,963 annual VMT along area roadways for all Medium-Duty Trucks (MDV) vehicles with full build-out of the Project (23). Table 4-14 provides an estimated range of annual fuel consumption resulting from Project

[5] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.
[6] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

generated MDVs. Based on Table 4-14, it is estimated that 213,909 gallons of fuel will be consumed from Project generated MDV trips.

TABLE 4-14: PROJECT-GENERATED MDV VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
4,229,963	19.77	213,909

LIGHT-HEAVY DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 8,725,411 annual VMT along area roadways for all Light-Heavy-Duty Trucks (LHDT1)[7] vehicles with full build-out of the Project (23). Table 4-15 provides an estimated range of annual fuel consumption resulting from Project generated LHDT1s. Based on Table 4-15, it is estimated that 628,826 gallons of fuel will be consumed from Project generated LHDT1 trips.

TABLE 4-15: PROJECT-GENERATED LHDT1 TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
8,725,411	13.88	628,826

MEDIUM-HEAVY DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 4,969,122 annual VMT along area roadways for all MHDTs with full build-out of the Project (23). Table 4-16 provides an estimated range of annual fuel consumption resulting from Project generated MHDTs. Based on Table 4-16, it is estimated that 586,976 gallons of fuel will be consumed from Project generated MHDT trips.

TABLE 4-16: PROJECT-GENERATED MHDT TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
4,969,122	8.47	586,976

HEAVY-HEAVY DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 18,966,447 annual VMT along area roadways for all HHDTs with full build-out of the Project (23). Table 4-17 provides an estimated range of annual fuel consumption resulting from Project generated HHDTs. Based on

[7] Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

Table 4-17, it is estimated that 2,717,019 gallons of fuel will be consumed from Project generated HHDT trips.

TABLE 4-17: PROJECT-GENERATED HHDT TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
18,966,447	6.98	2,717,019

As summarized on Table 4-18 the Project will result in 64,040,529 annual VMT and an estimated annual fuel consumption of 5,072,463 gallons of fuel.

TABLE 4-18: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)

Vehicle Type	Annual VMT	Estimated Annual Fuel Consumption (gallons)
LDA	19,474,148	617,195
LDT1	1,314,803	49,532
LDT2	6,360,635	259,005
MDV	4,229,963	213,909
LHDT	8,725,411	628,826
MHDT	4,969,122	586,976
HHDT	18,966,447	2,717,019
TOTAL (ALL VEHICLES)	***64,040,529***	***5,072,463***

4.4.2 FACILITY ENERGY DEMANDS

Project building operations and Project site maintenance activities would result in the consumption of natural gas and electricity. Natural gas would be supplied to the Project by SoCalGas; electricity would be supplied to the Project by SCE. Annual natural gas and electricity demands of the Project are summarized in Tables 4-19 and 4-20.

Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. In California, the California Building Standards Code Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting (29). Non-building energy use, or “plug-in” energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

TABLE 4-19: PROJECT ANNUAL OPERATIONAL NATURAL GAS DEMAND SUMMARY

Natural Gas Demand	kWh/year
General Light Industrial	44,959,000
High-Cube Fulfillment Center Warehouse	0
Landscape	0
Parking	0
Other Asphalt Surfaces	4,794,150
TOTAL PROJECT NATURAL GAS DEMAND	***49,753,150***

kBTU – kilo-British Thermal Units

TABLE 4-20: PROJECT ANNUAL OPERATIONAL ELECTRICITY DEMAND SUMMARY

Electricity Demand	kWh/year
General Light Industrial	14,045,400
High-Cube Fulfillment Center Warehouse	0
Landscape	0
Parking	228,340
Other Asphalt Surfaces	5,573,490
TOTAL PROJECT ELECTRICITY DEMAND	***19,847,230***

kBTU – kilo-British Thermal Units

4.4.3 Operational Energy Efficiency/Conservation Measures

Energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title24, California Green Building Standards Code).

It should also be noted that the Project would not result in a substantial increase in demand or transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure because it would be served by the existing electric utility lines in the Project vicinity.

Enhanced Vehicle Fuel Efficiencies

Project annual fuel consumption estimates presented previously in Tables 4-18 represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project sites can be expected to improve as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

4.5 SUMMARY

4.5.1 CONSTRUCTION ENERGY DEMANDS

The estimated power cost of on-site electricity usage during the construction of the Project is assumed to be around $196,868.05. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-, is calculated to be around 2,464,085 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 84,769 gallons of diesel fuel. Construction equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project's proposed construction process that are unusual or energy-intensive, and Project construction equipment would conform to the applicable CARB emissions standards, acting to promote equipment fuel efficiencies.

CCR Title 13, Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. BACMs inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the Project would result in the estimated fuel consumption of 206,566 gallons of fuel. Additionally, fuel consumption from construction vendor trips (MHDTs and HHDTs) will total approximately 112,972 gallons of fuel. Diesel fuel would be supplied by City and regional commercial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved through the use of bulk purchases, transport and use of construction materials. The 2019 IEPR released by the CEC has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements (18). As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

4.5.2 OPERATIONAL ENERGY DEMANDS

TRANSPORTATION ENERGY DEMANDS

Annual vehicular trips and related VMT generated by the operational of the Project would result in an estimated 617,195 gallons of fuel consumption per year for LDAs, 49,532 gallons of fuel of LDT1s, 259,005 gallons of fuel for LDT2s, 213,909 gallons for fuel for MDVs, 628,826 gallons of fuel for LHDT1s, 586,976 gallons of fuel for MHDTs, and 2,717,019 gallons for fuel for HHDTs. The total estimated annual fuel consumption from Project generated VMT would result in a fuel demand 5,072,463 gallons of fuel.

Fuel would be provided by current and future commercial vendors. Trip generation and VMT generated by the Project are consistent with other industrial uses of similar scale and configuration, as reflected respectively in the Institute of Transportation Engineers (ITE) Trip

Generation Manual (10th Ed., 2017); and CalEEMod. That is, the Project does not propose uses or operations that would inherently result in excessive and wasteful vehicle trips and VMT, nor associated excess and wasteful vehicle energy consumption.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Project would implement sidewalks, facilitating and encouraging pedestrian access. Facilitating pedestrian and bicycle access would reduce VMT and associated energy consumption. In compliance with the California Green Building Standards Code, the Project would promote the use of bicycles as an alternative mean of transportation by providing short-term and/or long-term bicycle parking accommodations. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

FACILITY ENERGY DEMANDS

Project facility operational energy demands are estimated at: 49,753,150 kBTU/year of natural gas; and 19,847,230 kWh/year of electricity. Natural gas would be supplied to the Project by SoCalGas; electricity would be supplied by SCE. The Project proposes conventional industrial uses reflecting contemporary energy efficient/energy conserving designs and operational programs. Uses proposed by the Project are not inherently energy intensive, and the Project energy demands in total would be comparable to, or less than, other projects of similar scale and configuration.

Additionally, the Project will be required to comply with the applicable Title 24 standards which will further ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary.

5 CONCLUSIONS

5.1 ENERGY IMPACT 1

Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.

As supported by the preceding analyses, Project construction and operations would not result in the inefficient, wasteful or unnecessary consumption of energy. Further, the energy demands of the Project can be accommodated within the context of available resources and energy delivery systems. The Project would therefore not cause or result in the need for additional energy producing or transmission facilities. The Project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the State of California.

5.2 ENERGY IMPACT 2

Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

The proposed Project is subject to California Building Code requirements. New buildings must achieve compliance with 2019 Building and Energy Efficiency Standards and the 2019 California Green Building Standards requirements.

The Project would provide for, and promote, energy efficiencies equal to or beyond those required under other applicable federal and State of California standards and regulations, and in so doing would meet or exceed all California Building Standards Code Title 24 standards. Moreover, energy consumed by the Project's operation is calculated to be comparable to, or less than, energy consumed by other industrial uses of similar scale and intensity that are constructed and operating in California. On this basis, the Project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Further, the Project would not cause or result in the need for additional energy producing facilities or energy delivery systems.

This page intentionally left blank

6 REFERENCES

1. **Association of Environmental Professionals.** *2019 CEQA California Environmental Quality Act.* 2019.
2. **Administration, U.S. Energy Information.** California State Profile and Energy Estimates. [Online] https://www.eia.gov/state/data.php?sid=CA#ConsumptionExpenditures.
3. **California Energy Commission.** *Transportation Energy Demand Forecast 2018-2030.* 2018.
4. **Alternate Fuels Data Center. *U.S. Department of Energy.* [Online] https://afdc.energy.gov/states/ca.**
5. **U.S. Energy Information Administration. California Energy Consumption by End-Use Sector. *California State Profile and Energy Estimates.* [Online] https://www.eia.gov/state/?sid=CA#tabs-2.**
6. **California Energy Commission. Total System Electric Generation. *CA.gov.* [Online] https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html.**
7. **Jet fuel consumption, price, and expenditure estimates, 2017. *U.S. Energy Information Administration.* [Online] https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_jf.html.**
8. **State Profile Data: California. *U.S. Energy and Information Administration.* [Online] https://www.eia.gov/state/data.php?sid=CA.**
9. **U.S. Energy Information Administration. State Profile and Energy Estimates. *Independent Statistics and Analysis.* [Online] http://www.eia.gov/state/?sid=CA#tabs2..**
10. **California Energy Commission. 2013 Integrated Energy Policy Report. [Online] 2013. http://www.energy.ca.gov/2013publications/CEC-100-2013-001/CEC-100-2013-001-CMF.pdf.**
11. **—. California Energy Almanac. *Utility Energy Supply Plans from 2013.* [Online] https://www.energy.ca.gov/almanac/electricity_data/s-2_supply_forms_2013/.**
12. **California ISO. Understanding the ISO. [Online] http://www.caiso.com/about/Pages/OurBusiness/UnderstandingtheISO/default.aspx.**
13. **Southern California Edison. 2018 Power Content Label. *Southern California Edison.* [Online] 2018. https://www.sce.com/sites/default/files/inline-files/2018SCEPCL.pdf.**
14. **California Public Utilities Commission. Natural Gas and California. [Online] http://www.cpuc.ca.gov/general.aspx?id=4802.**
15. **Department of Motor Vehicles. *State of California Department of Motor Vehicles Statistics For Publication January Through December 2019.* 2019.**
16. **U.S. Energy Information Administration. Use of Energy in the United States Explained Energy Use for Transportation. [Online] https://www.eia.gov/energyexplained/?page=us_energy_transportation.**
17. **—. Natural Gas Consumption by End Use. [Online] https://www.eia.gov/dnav/ng/ng_cons_sum_dcu_SCA_a.htm.**
18. **California Energy Commission Staff. 2019 Integrated Energy Policy Report Update. [Online] 2019. [Cited: March 26, 2020.] https://ww2.energy.ca.gov/2019_energypolicy/.**
19. **The California Energy Commission. 2019 Building Energy Efficiency Standards . *California Energy Commission.* [Online] 2018.**

https://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf.

20. California Energy Commission. Renewables Portfolio Standard (RPS). [Online] 2002. http://www.energy.ca.gov/portfolio/.

21. Association of Environmental Professionals. *2018 CEQA California Environmental Quality Act.* 2018.

22. State of California. *California Environmental Quality Act Guideline, California Public Resources Code, Title 14, Division 6, Chapter 3,.*

23. Urban Crossroads, Inc. *Hesperia Commerce Center II Air Quality Impact Analysis .* 2020.

24. California Air Pollution Control Officers Association (CAPCOA). California Emissions Estimator Model (CalEEMod). [Online] September 2016. www.caleemod.com.

25. California Department of Transportation. EMFAC Software. [Online] http://www.dot.ca.gov/hq/env/air/pages/emfac.htm.

26. Pray, Richard. *2017 National Construction Estimator.* Carlsbad : Craftsman Book Company, 2017.

27. Southern California Edison. Schedule GS-1 General Service. *Regulatory Information - Rates Pricing.* [Online] https://library.sce.com/content/dam/sce-doclib/public/regulatory/tariff/electric/schedules/general-service-&-industrial-rates/ELECTRIC_SCHEDULES_GS-1.pdf.

28. California Air Resources Board. *Methods to Find the Cost-Effectiveness of Funding Air Quality Projects For Evaluating Motor Vehicle Registration Fee Projects And Congestion Mitigation and Air Quality Improvement (CMAQ) Projects, Emission Factor Tables.* 2018.

29. State of California. Title 24, Part 6, of the California Code of Regulations. *California's Energy Efficiency Standards for Residential and Nonresidential Buildings.* [Online] http://www.energy.ca.gov/title24/.

This page intentionally left blank

7 CERTIFICATIONS

The contents of this energy report represent an accurate depiction of the environmental impacts associated with the proposed Hesperia Commerce Center II. The information contained in this energy report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

Haseeb Qureshi
Associate Principal
URBAN CROSSROADS, INC.
260 E. Baker, Suite 200
Costa Mesa, CA 92626
(949) 336-5987
hqureshi@urbanxroads.com

EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May, 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June, 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013
Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – CARB • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

This page intentionally left blank

APPENDIX 4.1:

CALEEMOD ANNUAL CONSTRUCTION EMISSIONS MODEL OUTPUTS

Hesperia Commerce Center II (Construction - Mitigated)

San Bernardino-Mojave Desert County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1,383.78	1000sqft	31.77	1,383,781.00	0
Unrefrigerated Warehouse-No Rail	2,361.65	1000sqft	54.22	2,361,648.00	0
Other Asphalt Surfaces	3,493.87	1000sqft	80.21	3,493,865.00	0
Other Non-Asphalt Surfaces	594.00	1000sqft	13.64	593,998.00	0
Parking Lot	1,631.00	Space	14.96	652,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is 194.80 acres.

Construction Phase - Construction Schedule anticipated to started January 2021 and be completed November 2021

Off-road Equipment - Hours are based on an 8-hour workday

Off-road Equipment - Based on the size of Project (194.8 acres), the equipment has been doubled to represent a more realistic scenario of the number of equipment used.

Off-road Equipment - Based on the size of Project (194.8 acres), the equipment has been doubled to represent a more realistic scenario of the number of equipment used.

Off-road Equipment -

Off-road Equipment -

Trips and VMT - It is unlikely that the entire Project will be constructed simultaneously. As such, this analysis assumes 1/2 of the CalEEmod default worker/vendor trips.

Grading - For purposes of analysis, and as a conservative measure, it is assumed that 20 acres will be graded per day.

Architectural Coating - Only “Low-Volatile Organic Compounds (VOC)” paints (no more than 50 gram/liter (g/L) of VOC)

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation -

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00

tblConstructionPhase	NumDays	120.00	20.00
tblConstructionPhase	NumDays	310.00	30.00
tblConstructionPhase	NumDays	220.00	150.00
tblConstructionPhase	NumDays	3,100.00	180.00
tblConstructionPhase	NumDays	220.00	100.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	150.00	600.00
tblGrading	AcresOfGrading	0.00	400.00
tblLandUse	LandUseSquareFeet	1,383,780.00	1,383,781.00
tblLandUse	LandUseSquareFeet	2,361,650.00	2,361,648.00
tblLandUse	LandUseSquareFeet	3,493,860.00	3,493,865.00
tblLandUse	LotAcreage	14.68	14.96
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,715.89	0.00
tblSolidWaste	SolidWasteGenerationRate	2,219.95	0.00
tblTripsAndVMT	VendorTripNumber	1,391.00	696.00
tblTripsAndVMT	WorkerTripNumber	3,564.00	1,782.00
tblVehicleEF	HHD	1.24	0.03
tblVehicleEF	HHD	0.04	2.7730e-003
tblVehicleEF	HHD	0.11	0.00
tblVehicleEF	HHD	3.46	9.63
tblVehicleEF	HHD	0.58	0.28
tblVehicleEF	HHD	1.92	8.3300e-004
tblVehicleEF	HHD	6,983.95	1,752.04
tblVehicleEF	HHD	1,493.95	1,319.40
tblVehicleEF	HHD	5.71	0.01
tblVehicleEF	HHD	28.07	8.89
tblVehicleEF	HHD	2.87	2.62
tblVehicleEF	HHD	20.20	1.95
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.5000e-005	0.00
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8820e-003	8.9830e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.0000e-005	0.00
tblVehicleEF	HHD	9.3000e-005	2.0000e-006
tblVehicleEF	HHD	3.4490e-003	6.9000e-005
tblVehicleEF	HHD	0.89	0.73
tblVehicleEF	HHD	5.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.09	0.05
tblVehicleEF	HHD	2.4200e-004	3.6800e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.9000e-005	0.00
tblVehicleEF	HHD	9.3000e-005	2.0000e-006
tblVehicleEF	HHD	3.4490e-003	6.9000e-005
tblVehicleEF	HHD	1.02	0.83
tblVehicleEF	HHD	5.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.4200e-004	3.6800e-004
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.17	0.04
tblVehicleEF	HHD	0.04	2.7740e-003
tblVehicleEF	HHD	0.11	0.00

tblVehicleEF	HHD	2.52	9.45
tblVehicleEF	HHD	0.58	0.28
tblVehicleEF	HHD	1.80	7.6800e-004
tblVehicleEF	HHD	7,395.94	1,740.61
tblVehicleEF	HHD	1,493.95	1,319.40
tblVehicleEF	HHD	5.71	0.01
tblVehicleEF	HHD	28.97	8.56
tblVehicleEF	HHD	2.70	2.46
tblVehicleEF	HHD	20.19	1.95
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.5000e-005	0.00
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8820e-003	8.9830e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.0000e-005	0.00
tblVehicleEF	HHD	1.8400e-004	6.0000e-006
tblVehicleEF	HHD	3.9090e-003	8.8000e-005
tblVehicleEF	HHD	0.84	0.76
tblVehicleEF	HHD	1.2900e-004	4.0000e-006
tblVehicleEF	HHD	0.09	0.05
tblVehicleEF	HHD	2.4800e-004	3.8400e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	0.07	0.02

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.7000e-005	0.00
tblVehicleEF	HHD	1.8400e-004	6.0000e-006
tblVehicleEF	HHD	3.9090e-003	8.8000e-005
tblVehicleEF	HHD	0.97	0.87
tblVehicleEF	HHD	1.2900e-004	4.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.4800e-004	3.8400e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.34	0.03
tblVehicleEF	HHD	0.04	2.4810e-003
tblVehicleEF	HHD	0.11	0.00
tblVehicleEF	HHD	4.76	9.88
tblVehicleEF	HHD	0.58	0.28
tblVehicleEF	HHD	1.89	8.1000e-004
tblVehicleEF	HHD	6,415.00	1,767.74
tblVehicleEF	HHD	1,493.95	1,319.16
tblVehicleEF	HHD	5.71	0.01
tblVehicleEF	HHD	26.84	9.34
tblVehicleEF	HHD	2.83	2.58
tblVehicleEF	HHD	20.20	1.95
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.5000e-005	0.00
tblVehicleEF	HHD	0.02	0.01

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8820e-003	8.9820e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.0000e-005	0.00
tblVehicleEF	HHD	9.4000e-005	3.0000e-006
tblVehicleEF	HHD	3.7830e-003	8.4000e-005
tblVehicleEF	HHD	0.96	0.68
tblVehicleEF	HHD	5.6000e-005	1.0000e-006
tblVehicleEF	HHD	0.09	0.05
tblVehicleEF	HHD	2.5900e-004	3.8300e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	0.06	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.9000e-005	0.00
tblVehicleEF	HHD	9.4000e-005	3.0000e-006
tblVehicleEF	HHD	3.7830e-003	8.4000e-005
tblVehicleEF	HHD	1.10	0.78
tblVehicleEF	HHD	5.6000e-005	1.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.5900e-004	3.8300e-004
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	LDA	4.6640e-003	2.6750e-003
tblVehicleEF	LDA	6.4640e-003	0.06
tblVehicleEF	LDA	0.62	0.67
tblVehicleEF	LDA	1.32	2.30
tblVehicleEF	LDA	261.85	266.85
tblVehicleEF	LDA	59.28	55.75

tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.09	0.21
tblVehicleEF	LDA	1.7130e-003	1.4180e-003
tblVehicleEF	LDA	2.3020e-003	1.9600e-003
tblVehicleEF	LDA	1.5790e-003	1.3070e-003
tblVehicleEF	LDA	2.1170e-003	1.8030e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	2.6230e-003	2.6340e-003
tblVehicleEF	LDA	6.1500e-004	5.5000e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.10	0.29
tblVehicleEF	LDA	5.3170e-003	3.1450e-003
tblVehicleEF	LDA	5.3900e-003	0.05
tblVehicleEF	LDA	0.76	0.85
tblVehicleEF	LDA	1.10	1.87
tblVehicleEF	LDA	286.52	295.36
tblVehicleEF	LDA	59.28	54.91
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	0.08	0.19
tblVehicleEF	LDA	1.7130e-003	1.4180e-003
tblVehicleEF	LDA	2.3020e-003	1.9600e-003
tblVehicleEF	LDA	1.5790e-003	1.3070e-003
tblVehicleEF	LDA	2.1170e-003	1.8030e-003
tblVehicleEF	LDA	0.10	0.16
tblVehicleEF	LDA	0.13	0.14
tblVehicleEF	LDA	0.08	0.13
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.8710e-003	2.9150e-003
tblVehicleEF	LDA	6.1100e-004	5.4200e-004
tblVehicleEF	LDA	0.10	0.16
tblVehicleEF	LDA	0.13	0.14
tblVehicleEF	LDA	0.08	0.13
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	4.5320e-003	2.5900e-003
tblVehicleEF	LDA	6.4200e-003	0.06
tblVehicleEF	LDA	0.58	0.62
tblVehicleEF	LDA	1.30	2.20
tblVehicleEF	LDA	256.02	258.48
tblVehicleEF	LDA	59.28	55.58
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.09	0.20

tblVehicleEF	LDA	1.7130e-003	1.4180e-003
tblVehicleEF	LDA	2.3020e-003	1.9600e-003
tblVehicleEF	LDA	1.5790e-003	1.3070e-003
tblVehicleEF	LDA	2.1170e-003	1.8030e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	2.5640e-003	2.5510e-003
tblVehicleEF	LDA	6.1500e-004	5.4900e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.09	0.28
tblVehicleEF	LDT1	0.02	7.3480e-003
tblVehicleEF	LDT1	0.02	0.10
tblVehicleEF	LDT1	1.71	1.50
tblVehicleEF	LDT1	4.02	2.62
tblVehicleEF	LDT1	323.73	316.00
tblVehicleEF	LDT1	72.77	67.91
tblVehicleEF	LDT1	0.18	0.15
tblVehicleEF	LDT1	0.24	0.33
tblVehicleEF	LDT1	2.8630e-003	2.1810e-003

tblVehicleEF	LDT1	3.8930e-003	3.1180e-003
tblVehicleEF	LDT1	2.6370e-003	2.0080e-003
tblVehicleEF	LDT1	3.5800e-003	2.8670e-003
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.36	0.29
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.21	0.98
tblVehicleEF	LDT1	0.29	0.50
tblVehicleEF	LDT1	3.2600e-003	3.1200e-003
tblVehicleEF	LDT1	7.9900e-004	6.7000e-004
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.36	0.29
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.21	0.98
tblVehicleEF	LDT1	0.31	0.55
tblVehicleEF	LDT1	0.02	8.5440e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	2.05	1.86
tblVehicleEF	LDT1	3.30	2.13
tblVehicleEF	LDT1	352.65	345.58
tblVehicleEF	LDT1	72.77	66.80
tblVehicleEF	LDT1	0.16	0.14
tblVehicleEF	LDT1	0.22	0.31
tblVehicleEF	LDT1	2.8630e-003	2.1810e-003
tblVehicleEF	LDT1	3.8930e-003	3.1180e-003

tblVehicleEF	LDT1	2.6370e-003	2.0080e-003
tblVehicleEF	LDT1	3.5800e-003	2.8670e-003
tblVehicleEF	LDT1	0.40	0.49
tblVehicleEF	LDT1	0.44	0.39
tblVehicleEF	LDT1	0.29	0.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	1.00
tblVehicleEF	LDT1	0.24	0.41
tblVehicleEF	LDT1	3.5540e-003	3.4120e-003
tblVehicleEF	LDT1	7.8600e-004	6.6000e-004
tblVehicleEF	LDT1	0.40	0.49
tblVehicleEF	LDT1	0.44	0.39
tblVehicleEF	LDT1	0.29	0.37
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.21	1.00
tblVehicleEF	LDT1	0.26	0.44
tblVehicleEF	LDT1	0.01	7.1250e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.62	1.39
tblVehicleEF	LDT1	3.95	2.51
tblVehicleEF	LDT1	316.91	307.32
tblVehicleEF	LDT1	72.77	67.68
tblVehicleEF	LDT1	0.17	0.14
tblVehicleEF	LDT1	0.24	0.32
tblVehicleEF	LDT1	2.8630e-003	2.1810e-003
tblVehicleEF	LDT1	3.8930e-003	3.1180e-003
tblVehicleEF	LDT1	2.6370e-003	2.0080e-003

tblVehicleEF	LDT1	3.5800e-003	2.8670e-003
tblVehicleEF	LDT1	0.20	0.24
tblVehicleEF	LDT1	0.41	0.34
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.25	1.16
tblVehicleEF	LDT1	0.28	0.49
tblVehicleEF	LDT1	3.1900e-003	3.0340e-003
tblVehicleEF	LDT1	7.9800e-004	6.6800e-004
tblVehicleEF	LDT1	0.20	0.24
tblVehicleEF	LDT1	0.41	0.34
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.25	1.16
tblVehicleEF	LDT1	0.31	0.53
tblVehicleEF	LDT2	6.9330e-003	4.6240e-003
tblVehicleEF	LDT2	9.2890e-003	0.08
tblVehicleEF	LDT2	0.85	1.02
tblVehicleEF	LDT2	1.85	3.00
tblVehicleEF	LDT2	363.70	341.92
tblVehicleEF	LDT2	81.97	73.81
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.16	0.36
tblVehicleEF	LDT2	1.7370e-003	1.4800e-003
tblVehicleEF	LDT2	2.4180e-003	2.0860e-003
tblVehicleEF	LDT2	1.5980e-003	1.3630e-003
tblVehicleEF	LDT2	2.2230e-003	1.9180e-003

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.13	0.41
tblVehicleEF	LDT2	3.6440e-003	3.3750e-003
tblVehicleEF	LDT2	8.5100e-004	7.2900e-004
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.14	0.45
tblVehicleEF	LDT2	7.8730e-003	5.4060e-003
tblVehicleEF	LDT2	7.7350e-003	0.07
tblVehicleEF	LDT2	1.04	1.28
tblVehicleEF	LDT2	1.53	2.43
tblVehicleEF	LDT2	397.09	371.16
tblVehicleEF	LDT2	81.97	72.66
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.15	0.33
tblVehicleEF	LDT2	1.7370e-003	1.4800e-003
tblVehicleEF	LDT2	2.4180e-003	2.0860e-003
tblVehicleEF	LDT2	1.5980e-003	1.3630e-003
tblVehicleEF	LDT2	2.2230e-003	1.9180e-003
tblVehicleEF	LDT2	0.14	0.26

tblVehicleEF	LDT2	0.16	0.21
tblVehicleEF	LDT2	0.12	0.22
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	3.9810e-003	3.6640e-003
tblVehicleEF	LDT2	8.4600e-004	7.1700e-004
tblVehicleEF	LDT2	0.14	0.26
tblVehicleEF	LDT2	0.16	0.21
tblVehicleEF	LDT2	0.12	0.22
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.11	0.36
tblVehicleEF	LDT2	6.7430e-003	4.4830e-003
tblVehicleEF	LDT2	9.2200e-003	0.08
tblVehicleEF	LDT2	0.81	0.94
tblVehicleEF	LDT2	1.82	2.87
tblVehicleEF	LDT2	355.82	333.34
tblVehicleEF	LDT2	81.97	73.58
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.16	0.35
tblVehicleEF	LDT2	1.7370e-003	1.4800e-003
tblVehicleEF	LDT2	2.4180e-003	2.0860e-003
tblVehicleEF	LDT2	1.5980e-003	1.3630e-003
tblVehicleEF	LDT2	2.2230e-003	1.9180e-003
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.15	0.19

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.64
tblVehicleEF	LDT2	0.12	0.40
tblVehicleEF	LDT2	3.5650e-003	3.2900e-003
tblVehicleEF	LDT2	8.5100e-004	7.2600e-004
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.15	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.64
tblVehicleEF	LDT2	0.14	0.44
tblVehicleEF	LHD1	5.4860e-003	4.7000e-003
tblVehicleEF	LHD1	0.01	7.6650e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.16	1.15
tblVehicleEF	LHD1	2.77	1.07
tblVehicleEF	LHD1	9.23	9.52
tblVehicleEF	LHD1	614.92	651.43
tblVehicleEF	LHD1	30.92	10.46
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.26	2.05
tblVehicleEF	LHD1	1.02	0.30
tblVehicleEF	LHD1	9.6600e-004	1.0220e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01

tblVehicleEF	LHD1	1.0070e-003	2.8000e-004
tblVehicleEF	LHD1	9.2400e-004	9.7800e-004
tblVehicleEF	LHD1	2.5280e-003	2.5170e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2600e-004	2.5700e-004
tblVehicleEF	LHD1	3.7970e-003	3.4940e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8480e-003	1.5520e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.35	0.67
tblVehicleEF	LHD1	0.29	0.08
tblVehicleEF	LHD1	6.0360e-003	6.3340e-003
tblVehicleEF	LHD1	3.6200e-004	1.0400e-004
tblVehicleEF	LHD1	3.7970e-003	3.4940e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8480e-003	1.5520e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.35	0.67
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.4860e-003	4.7190e-003
tblVehicleEF	LHD1	0.01	7.8850e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.18	1.17
tblVehicleEF	LHD1	2.58	0.99

tblVehicleEF	LHD1	9.23	9.52
tblVehicleEF	LHD1	614.92	651.48
tblVehicleEF	LHD1	30.92	10.31
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.12	1.92
tblVehicleEF	LHD1	0.97	0.29
tblVehicleEF	LHD1	9.6600e-004	1.0220e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0070e-003	2.8000e-004
tblVehicleEF	LHD1	9.2400e-004	9.7800e-004
tblVehicleEF	LHD1	2.5280e-003	2.5170e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2600e-004	2.5700e-004
tblVehicleEF	LHD1	7.5090e-003	7.6480e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.2150e-003	4.3190e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.35	0.68
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	6.0370e-003	6.3340e-003
tblVehicleEF	LHD1	3.5800e-004	1.0200e-004
tblVehicleEF	LHD1	7.5090e-003	7.6480e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.2150e-003	4.3190e-003

tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.35	0.68
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.4860e-003	4.7050e-003
tblVehicleEF	LHD1	0.01	7.6940e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.16	1.15
tblVehicleEF	LHD1	2.72	1.04
tblVehicleEF	LHD1	9.23	9.52
tblVehicleEF	LHD1	614.92	651.44
tblVehicleEF	LHD1	30.92	10.41
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.22	2.02
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.6600e-004	1.0220e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0070e-003	2.8000e-004
tblVehicleEF	LHD1	9.2400e-004	9.7800e-004
tblVehicleEF	LHD1	2.5280e-003	2.5170e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2600e-004	2.5700e-004
tblVehicleEF	LHD1	4.1760e-003	4.1510e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8200e-003	1.4650e-003

tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.38	0.72
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	6.0360e-003	6.3340e-003
tblVehicleEF	LHD1	3.6100e-004	1.0300e-004
tblVehicleEF	LHD1	4.1760e-003	4.1510e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8200e-003	1.4650e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.38	0.72
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	3.8190e-003	2.8840e-003
tblVehicleEF	LHD2	5.2410e-003	4.5860e-003
tblVehicleEF	LHD2	9.1660e-003	8.8630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.69
tblVehicleEF	LHD2	1.29	0.55
tblVehicleEF	LHD2	14.32	15.17
tblVehicleEF	LHD2	614.63	635.50
tblVehicleEF	LHD2	24.89	6.65
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.69	2.20
tblVehicleEF	LHD2	0.56	0.17
tblVehicleEF	LHD2	1.3030e-003	1.5160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	4.2500e-004	1.1800e-004
tblVehicleEF	LHD2	1.2470e-003	1.4500e-003
tblVehicleEF	LHD2	2.6810e-003	2.7390e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9100e-004	1.0900e-004
tblVehicleEF	LHD2	1.4000e-003	1.4390e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.3800e-004	6.7000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.27
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4500e-004
tblVehicleEF	LHD2	5.9810e-003	6.1160e-003
tblVehicleEF	LHD2	2.7300e-004	6.6000e-005
tblVehicleEF	LHD2	1.4000e-003	1.4390e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.3800e-004	6.7000e-004
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.27
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	3.8190e-003	2.8950e-003
tblVehicleEF	LHD2	5.3190e-003	4.6420e-003
tblVehicleEF	LHD2	8.7380e-003	8.3740e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.70

tblVehicleEF	LHD2	1.21	0.51
tblVehicleEF	LHD2	14.32	15.17
tblVehicleEF	LHD2	614.63	635.52
tblVehicleEF	LHD2	24.89	6.57
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.59	2.07
tblVehicleEF	LHD2	0.54	0.16
tblVehicleEF	LHD2	1.3030e-003	1.5160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.2500e-004	1.1800e-004
tblVehicleEF	LHD2	1.2470e-003	1.4500e-003
tblVehicleEF	LHD2	2.6810e-003	2.7390e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9100e-004	1.0900e-004
tblVehicleEF	LHD2	2.7070e-003	3.1230e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.6130e-003	1.8400e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4500e-004
tblVehicleEF	LHD2	5.9810e-003	6.1160e-003
tblVehicleEF	LHD2	2.7100e-004	6.5000e-005
tblVehicleEF	LHD2	2.7070e-003	3.1230e-003
tblVehicleEF	LHD2	0.05	0.05

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.6130e-003	1.8400e-003
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	LHD2	3.8190e-003	2.8870e-003
tblVehicleEF	LHD2	5.2490e-003	4.5950e-003
tblVehicleEF	LHD2	9.0820e-003	8.7350e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.69
tblVehicleEF	LHD2	1.27	0.54
tblVehicleEF	LHD2	14.32	15.17
tblVehicleEF	LHD2	614.63	635.51
tblVehicleEF	LHD2	24.89	6.62
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.67	2.17
tblVehicleEF	LHD2	0.55	0.17
tblVehicleEF	LHD2	1.3030e-003	1.5160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.2500e-004	1.1800e-004
tblVehicleEF	LHD2	1.2470e-003	1.4500e-003
tblVehicleEF	LHD2	2.6810e-003	2.7390e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9100e-004	1.0900e-004
tblVehicleEF	LHD2	1.4600e-003	1.6420e-003
tblVehicleEF	LHD2	0.05	0.05

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	6.2200e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.29
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4500e-004
tblVehicleEF	LHD2	5.9810e-003	6.1160e-003
tblVehicleEF	LHD2	2.7200e-004	6.6000e-005
tblVehicleEF	LHD2	1.4600e-003	1.6420e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	6.2200e-004
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.29
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.16	0.27
tblVehicleEF	MCY	21.02	22.01
tblVehicleEF	MCY	9.91	8.98
tblVehicleEF	MCY	167.12	210.64
tblVehicleEF	MCY	46.87	62.81
tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	1.8190e-003	1.7180e-003
tblVehicleEF	MCY	3.7460e-003	3.2090e-003
tblVehicleEF	MCY	1.7050e-003	1.6110e-003
tblVehicleEF	MCY	3.5370e-003	3.0300e-003

tblVehicleEF	MCY	1.45	1.46
tblVehicleEF	MCY	0.85	0.88
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	2.26	2.21
tblVehicleEF	MCY	0.50	2.24
tblVehicleEF	MCY	2.17	1.99
tblVehicleEF	MCY	2.0790e-003	2.0840e-003
tblVehicleEF	MCY	6.9500e-004	6.2200e-004
tblVehicleEF	MCY	1.45	1.46
tblVehicleEF	MCY	0.85	0.88
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	2.76	2.69
tblVehicleEF	MCY	0.50	2.24
tblVehicleEF	MCY	2.37	2.16
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	21.14	22.21
tblVehicleEF	MCY	9.06	8.04
tblVehicleEF	MCY	167.12	210.71
tblVehicleEF	MCY	46.87	60.21
tblVehicleEF	MCY	0.99	1.00
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8190e-003	1.7180e-003
tblVehicleEF	MCY	3.7460e-003	3.2090e-003
tblVehicleEF	MCY	1.7050e-003	1.6110e-003
tblVehicleEF	MCY	3.5370e-003	3.0300e-003
tblVehicleEF	MCY	3.14	3.54

tblVehicleEF	MCY	1.28	1.46
tblVehicleEF	MCY	2.14	2.53
tblVehicleEF	MCY	2.19	2.14
tblVehicleEF	MCY	0.50	2.25
tblVehicleEF	MCY	1.87	1.65
tblVehicleEF	MCY	2.0790e-003	2.0850e-003
tblVehicleEF	MCY	6.7100e-004	5.9600e-004
tblVehicleEF	MCY	3.14	3.54
tblVehicleEF	MCY	1.28	1.46
tblVehicleEF	MCY	2.14	2.53
tblVehicleEF	MCY	2.69	2.61
tblVehicleEF	MCY	0.50	2.25
tblVehicleEF	MCY	2.03	1.80
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.25
tblVehicleEF	MCY	20.06	20.78
tblVehicleEF	MCY	9.53	8.40
tblVehicleEF	MCY	167.12	208.52
tblVehicleEF	MCY	46.87	61.47
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8190e-003	1.7180e-003
tblVehicleEF	MCY	3.7460e-003	3.2090e-003
tblVehicleEF	MCY	1.7050e-003	1.6110e-003
tblVehicleEF	MCY	3.5370e-003	3.0300e-003
tblVehicleEF	MCY	1.71	1.84
tblVehicleEF	MCY	1.14	1.19

tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	2.22	2.16
tblVehicleEF	MCY	0.57	2.54
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	6.8600e-004	6.0800e-004
tblVehicleEF	MCY	1.71	1.84
tblVehicleEF	MCY	1.14	1.19
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	2.71	2.63
tblVehicleEF	MCY	0.57	2.54
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.7810e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.55	1.37
tblVehicleEF	MDV	3.59	3.68
tblVehicleEF	MDV	498.66	425.57
tblVehicleEF	MDV	110.76	90.69
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.36	0.44
tblVehicleEF	MDV	1.8680e-003	1.6560e-003
tblVehicleEF	MDV	2.5890e-003	2.2360e-003
tblVehicleEF	MDV	1.7240e-003	1.5300e-003
tblVehicleEF	MDV	2.3820e-003	2.0580e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.11	0.56
tblVehicleEF	MDV	0.28	0.52
tblVehicleEF	MDV	5.0000e-003	4.1980e-003
tblVehicleEF	MDV	1.1710e-003	8.9500e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.56
tblVehicleEF	MDV	0.31	0.57
tblVehicleEF	MDV	0.02	7.8200e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.87	1.69
tblVehicleEF	MDV	2.99	2.99
tblVehicleEF	MDV	542.90	456.91
tblVehicleEF	MDV	110.76	89.27
tblVehicleEF	MDV	0.18	0.14
tblVehicleEF	MDV	0.33	0.41
tblVehicleEF	MDV	1.8680e-003	1.6560e-003
tblVehicleEF	MDV	2.5890e-003	2.2360e-003
tblVehicleEF	MDV	1.7240e-003	1.5300e-003
tblVehicleEF	MDV	2.3820e-003	2.0580e-003
tblVehicleEF	MDV	0.21	0.29
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.18	0.26
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.11	0.57

tblVehicleEF	MDV	0.24	0.43
tblVehicleEF	MDV	5.4470e-003	4.5080e-003
tblVehicleEF	MDV	1.1600e-003	8.8100e-004
tblVehicleEF	MDV	0.21	0.29
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.18	0.26
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.11	0.57
tblVehicleEF	MDV	0.26	0.47
tblVehicleEF	MDV	0.01	6.5500e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.47	1.27
tblVehicleEF	MDV	3.53	3.52
tblVehicleEF	MDV	488.33	416.35
tblVehicleEF	MDV	110.76	90.40
tblVehicleEF	MDV	0.19	0.15
tblVehicleEF	MDV	0.35	0.43
tblVehicleEF	MDV	1.8680e-003	1.6560e-003
tblVehicleEF	MDV	2.5890e-003	2.2360e-003
tblVehicleEF	MDV	1.7240e-003	1.5300e-003
tblVehicleEF	MDV	2.3820e-003	2.0580e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.65
tblVehicleEF	MDV	0.28	0.51

tblVehicleEF	MDV	4.8960e-003	4.1070e-003
tblVehicleEF	MDV	1.1700e-003	8.9200e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.13	0.65
tblVehicleEF	MDV	0.31	0.56
tblVehicleEF	MH	0.04	4.0640e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.60	0.38
tblVehicleEF	MH	6.96	0.00
tblVehicleEF	MH	1,048.28	936.22
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.64	5.05
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.19
tblVehicleEF	MH	1.2510e-003	0.00
tblVehicleEF	MH	3.2210e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.18
tblVehicleEF	MH	1.1500e-003	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	8.8510e-003
tblVehicleEF	MH	7.2000e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.04	4.0640e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.74	0.38
tblVehicleEF	MH	6.31	0.00
tblVehicleEF	MH	1,048.28	936.22
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.50	4.73
tblVehicleEF	MH	0.90	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.19
tblVehicleEF	MH	1.2510e-003	0.00
tblVehicleEF	MH	3.2210e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.18
tblVehicleEF	MH	1.1500e-003	0.00
tblVehicleEF	MH	3.12	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.12	0.09

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.8510e-003
tblVehicleEF	MH	7.0900e-004	0.00
tblVehicleEF	MH	3.12	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.04	4.0640e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.61	0.38
tblVehicleEF	MH	6.87	0.00
tblVehicleEF	MH	1,048.28	936.22
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.61	4.97
tblVehicleEF	MH	0.94	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.19
tblVehicleEF	MH	1.2510e-003	0.00
tblVehicleEF	MH	3.2210e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.18
tblVehicleEF	MH	1.1500e-003	0.00
tblVehicleEF	MH	1.88	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.56	0.00

tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	8.8510e-003
tblVehicleEF	MH	7.1900e-004	0.00
tblVehicleEF	MH	1.88	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.43	0.00
tblVehicleEF	MHD	0.02	5.4630e-003
tblVehicleEF	MHD	4.1450e-003	6.2250e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.33	0.44
tblVehicleEF	MHD	0.31	0.67
tblVehicleEF	MHD	6.00	1.87
tblVehicleEF	MHD	155.10	70.79
tblVehicleEF	MHD	1,105.72	1,107.75
tblVehicleEF	MHD	53.92	15.06
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	1.08	1.89
tblVehicleEF	MHD	11.74	0.98
tblVehicleEF	MHD	4.3700e-004	1.7550e-003
tblVehicleEF	MHD	5.5780e-003	0.06
tblVehicleEF	MHD	8.2200e-004	1.9600e-004
tblVehicleEF	MHD	4.1800e-004	1.6790e-003

tblVehicleEF	MHD	5.3330e-003	0.06
tblVehicleEF	MHD	7.5600e-004	1.8000e-004
tblVehicleEF	MHD	1.4330e-003	1.2040e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	7.1400e-004	5.5800e-004
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.36	0.08
tblVehicleEF	MHD	1.4910e-003	6.7300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4400e-004	1.4900e-004
tblVehicleEF	MHD	1.4330e-003	1.2040e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	7.1400e-004	5.5800e-004
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.40	0.09
tblVehicleEF	MHD	0.02	5.1740e-003
tblVehicleEF	MHD	4.2290e-003	6.3500e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.24	0.35
tblVehicleEF	MHD	0.32	0.68
tblVehicleEF	MHD	5.61	1.72
tblVehicleEF	MHD	164.29	72.16
tblVehicleEF	MHD	1,105.72	1,107.78

tblVehicleEF	MHD	53.92	14.81
tblVehicleEF	MHD	0.65	0.57
tblVehicleEF	MHD	1.01	1.76
tblVehicleEF	MHD	11.70	0.97
tblVehicleEF	MHD	3.6900e-004	1.4820e-003
tblVehicleEF	MHD	5.5780e-003	0.06
tblVehicleEF	MHD	8.2200e-004	1.9600e-004
tblVehicleEF	MHD	3.5300e-004	1.4180e-003
tblVehicleEF	MHD	5.3330e-003	0.06
tblVehicleEF	MHD	7.5600e-004	1.8000e-004
tblVehicleEF	MHD	2.8480e-003	2.6690e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	1.6690e-003	1.6090e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	0.02	0.21
tblVehicleEF	MHD	0.35	0.08
tblVehicleEF	MHD	1.5770e-003	6.8700e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.3800e-004	1.4700e-004
tblVehicleEF	MHD	2.8480e-003	2.6690e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.6690e-003	1.6090e-003
tblVehicleEF	MHD	0.05	0.10
tblVehicleEF	MHD	0.02	0.21
tblVehicleEF	MHD	0.38	0.09

tblVehicleEF	MHD	0.02	5.8910e-003
tblVehicleEF	MHD	4.1530e-003	6.2420e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.46	0.57
tblVehicleEF	MHD	0.31	0.67
tblVehicleEF	MHD	5.90	1.82
tblVehicleEF	MHD	142.41	68.88
tblVehicleEF	MHD	1,105.72	1,107.76
tblVehicleEF	MHD	53.92	14.97
tblVehicleEF	MHD	0.60	0.56
tblVehicleEF	MHD	1.06	1.85
tblVehicleEF	MHD	11.73	0.98
tblVehicleEF	MHD	5.3200e-004	2.1320e-003
tblVehicleEF	MHD	5.5780e-003	0.06
tblVehicleEF	MHD	8.2200e-004	1.9600e-004
tblVehicleEF	MHD	5.0900e-004	2.0400e-003
tblVehicleEF	MHD	5.3330e-003	0.06
tblVehicleEF	MHD	7.5600e-004	1.8000e-004
tblVehicleEF	MHD	1.5800e-003	1.4230e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.0500e-004	5.1800e-004
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.36	0.08
tblVehicleEF	MHD	1.3710e-003	6.5500e-004
tblVehicleEF	MHD	0.01	0.01

tblVehicleEF	MHD	6.4300e-004	1.4800e-004
tblVehicleEF	MHD	1.5800e-003	1.4230e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	7.0500e-004	5.1800e-004
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.39	0.09
tblVehicleEF	OBUS	0.01	9.8280e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.27	0.43
tblVehicleEF	OBUS	0.73	1.52
tblVehicleEF	OBUS	6.67	3.30
tblVehicleEF	OBUS	70.21	51.97
tblVehicleEF	OBUS	1,126.32	1,610.98
tblVehicleEF	OBUS	71.08	24.56
tblVehicleEF	OBUS	0.32	0.26
tblVehicleEF	OBUS	1.10	1.20
tblVehicleEF	OBUS	1.97	0.47
tblVehicleEF	OBUS	1.1300e-004	1.0320e-003
tblVehicleEF	OBUS	5.4210e-003	0.02
tblVehicleEF	OBUS	9.1200e-004	2.4700e-004
tblVehicleEF	OBUS	1.0800e-004	9.8700e-004
tblVehicleEF	OBUS	5.1650e-003	0.02
tblVehicleEF	OBUS	8.3900e-004	2.2700e-004
tblVehicleEF	OBUS	2.2350e-003	3.0920e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4600e-004	1.1800e-003
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.05	0.35
tblVehicleEF	OBUS	0.41	0.16
tblVehicleEF	OBUS	6.8200e-004	4.9900e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	8.2800e-004	2.4300e-004
tblVehicleEF	OBUS	2.2350e-003	3.0920e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4600e-004	1.1800e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.05	0.35
tblVehicleEF	OBUS	0.45	0.17
tblVehicleEF	OBUS	0.01	9.8610e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.41
tblVehicleEF	OBUS	0.75	1.57
tblVehicleEF	OBUS	6.11	2.97
tblVehicleEF	OBUS	73.34	52.23
tblVehicleEF	OBUS	1,126.32	1,611.07
tblVehicleEF	OBUS	71.08	24.00
tblVehicleEF	OBUS	0.33	0.26
tblVehicleEF	OBUS	1.02	1.08

tblVehicleEF	OBUS	1.92	0.45
tblVehicleEF	OBUS	9.5000e-005	8.7200e-004
tblVehicleEF	OBUS	5.4210e-003	0.02
tblVehicleEF	OBUS	9.1200e-004	2.4700e-004
tblVehicleEF	OBUS	9.1000e-005	8.3400e-004
tblVehicleEF	OBUS	5.1650e-003	0.02
tblVehicleEF	OBUS	8.3900e-004	2.2700e-004
tblVehicleEF	OBUS	4.3510e-003	6.6820e-003
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	2.1830e-003	3.3480e-003
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.05	0.36
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	OBUS	7.1200e-004	5.0100e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	8.1800e-004	2.3700e-004
tblVehicleEF	OBUS	4.3510e-003	6.6820e-003
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1830e-003	3.3480e-003
tblVehicleEF	OBUS	0.07	0.11
tblVehicleEF	OBUS	0.05	0.36
tblVehicleEF	OBUS	0.42	0.16
tblVehicleEF	OBUS	0.01	9.8320e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03

tblVehicleEF	OBUS	0.28	0.44
tblVehicleEF	OBUS	0.73	1.53
tblVehicleEF	OBUS	6.62	3.24
tblVehicleEF	OBUS	65.88	51.61
tblVehicleEF	OBUS	1,126.32	1,611.00
tblVehicleEF	OBUS	71.08	24.45
tblVehicleEF	OBUS	0.31	0.26
tblVehicleEF	OBUS	1.08	1.17
tblVehicleEF	OBUS	1.96	0.47
tblVehicleEF	OBUS	1.3700e-004	1.2520e-003
tblVehicleEF	OBUS	5.4210e-003	0.02
tblVehicleEF	OBUS	9.1200e-004	2.4700e-004
tblVehicleEF	OBUS	1.3100e-004	1.1980e-003
tblVehicleEF	OBUS	5.1650e-003	0.02
tblVehicleEF	OBUS	8.3900e-004	2.2700e-004
tblVehicleEF	OBUS	2.3980e-003	3.4750e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.5900e-004	1.1270e-003
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.05	0.38
tblVehicleEF	OBUS	0.41	0.15
tblVehicleEF	OBUS	6.4100e-004	4.9500e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	8.2700e-004	2.4200e-004
tblVehicleEF	OBUS	2.3980e-003	3.4750e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.5900e-004	1.1270e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.05	0.38
tblVehicleEF	OBUS	0.45	0.17
tblVehicleEF	SBUS	0.86	0.01
tblVehicleEF	SBUS	0.01	4.4370e-003
tblVehicleEF	SBUS	0.07	1.1460e-003
tblVehicleEF	SBUS	5.64	1.00
tblVehicleEF	SBUS	0.71	0.28
tblVehicleEF	SBUS	5.49	0.17
tblVehicleEF	SBUS	1,270.71	324.55
tblVehicleEF	SBUS	1,144.20	1,170.32
tblVehicleEF	SBUS	36.06	0.97
tblVehicleEF	SBUS	12.46	3.52
tblVehicleEF	SBUS	5.17	5.16
tblVehicleEF	SBUS	15.23	0.98
tblVehicleEF	SBUS	0.01	3.9580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.0600e-004	1.4000e-005
tblVehicleEF	SBUS	0.01	3.7870e-003
tblVehicleEF	SBUS	2.7630e-003	2.8810e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.6500e-004	1.3000e-005
tblVehicleEF	SBUS	3.0740e-003	5.8000e-005
tblVehicleEF	SBUS	0.02	2.1600e-004

tblVehicleEF	SBUS	0.68	0.08
tblVehicleEF	SBUS	1.3130e-003	2.2000e-005
tblVehicleEF	SBUS	0.12	0.09
tblVehicleEF	SBUS	0.01	1.7430e-003
tblVehicleEF	SBUS	0.28	6.0120e-003
tblVehicleEF	SBUS	0.01	3.0720e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5600e-004	1.0000e-005
tblVehicleEF	SBUS	3.0740e-003	5.8000e-005
tblVehicleEF	SBUS	0.02	2.1600e-004
tblVehicleEF	SBUS	0.97	0.11
tblVehicleEF	SBUS	1.3130e-003	2.2000e-005
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.01	1.7430e-003
tblVehicleEF	SBUS	0.31	6.5820e-003
tblVehicleEF	SBUS	0.86	0.01
tblVehicleEF	SBUS	0.01	4.4520e-003
tblVehicleEF	SBUS	0.06	8.8900e-004
tblVehicleEF	SBUS	5.48	0.96
tblVehicleEF	SBUS	0.72	0.28
tblVehicleEF	SBUS	3.76	0.10
tblVehicleEF	SBUS	1,335.64	332.90
tblVehicleEF	SBUS	1,144.20	1,170.32
tblVehicleEF	SBUS	36.06	0.86
tblVehicleEF	SBUS	12.86	3.59
tblVehicleEF	SBUS	4.84	4.82
tblVehicleEF	SBUS	15.20	0.98

tblVehicleEF	SBUS	0.01	3.3450e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.0600e-004	1.4000e-005
tblVehicleEF	SBUS	0.01	3.2000e-003
tblVehicleEF	SBUS	2.7630e-003	2.8810e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.6500e-004	1.3000e-005
tblVehicleEF	SBUS	5.9210e-003	1.3100e-004
tblVehicleEF	SBUS	0.02	3.0200e-004
tblVehicleEF	SBUS	0.67	0.08
tblVehicleEF	SBUS	2.9370e-003	7.4000e-005
tblVehicleEF	SBUS	0.12	0.09
tblVehicleEF	SBUS	9.6420e-003	1.5130e-003
tblVehicleEF	SBUS	0.23	4.6550e-003
tblVehicleEF	SBUS	0.01	3.1510e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.2700e-004	9.0000e-006
tblVehicleEF	SBUS	5.9210e-003	1.3100e-004
tblVehicleEF	SBUS	0.02	3.0200e-004
tblVehicleEF	SBUS	0.96	0.11
tblVehicleEF	SBUS	2.9370e-003	7.4000e-005
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	9.6420e-003	1.5130e-003
tblVehicleEF	SBUS	0.25	5.0970e-003
tblVehicleEF	SBUS	0.86	0.01
tblVehicleEF	SBUS	0.01	4.4380e-003

tblVehicleEF	SBUS	0.07	1.1310e-003
tblVehicleEF	SBUS	5.85	1.05
tblVehicleEF	SBUS	0.71	0.28
tblVehicleEF	SBUS	5.54	0.16
tblVehicleEF	SBUS	1,181.05	313.01
tblVehicleEF	SBUS	1,144.20	1,170.32
tblVehicleEF	SBUS	36.06	0.95
tblVehicleEF	SBUS	11.91	3.42
tblVehicleEF	SBUS	5.09	5.07
tblVehicleEF	SBUS	15.23	0.98
tblVehicleEF	SBUS	0.02	4.8040e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.0600e-004	1.4000e-005
tblVehicleEF	SBUS	0.02	4.5960e-003
tblVehicleEF	SBUS	2.7630e-003	2.8810e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.6500e-004	1.3000e-005
tblVehicleEF	SBUS	3.2090e-003	7.3000e-005
tblVehicleEF	SBUS	0.02	2.5400e-004
tblVehicleEF	SBUS	0.68	0.08
tblVehicleEF	SBUS	1.2980e-003	2.0000e-005
tblVehicleEF	SBUS	0.12	0.09
tblVehicleEF	SBUS	0.01	2.3230e-003
tblVehicleEF	SBUS	0.29	5.9330e-003
tblVehicleEF	SBUS	0.01	2.9630e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.5600e-004	9.0000e-006
tblVehicleEF	SBUS	3.2090e-003	7.3000e-005
tblVehicleEF	SBUS	0.02	2.5400e-004
tblVehicleEF	SBUS	0.97	0.11
tblVehicleEF	SBUS	1.2980e-003	2.0000e-005
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.01	2.3230e-003
tblVehicleEF	SBUS	0.32	6.4960e-003
tblVehicleEF	UBUS	1.95	3.51
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	9.79	26.99
tblVehicleEF	UBUS	14.93	2.87
tblVehicleEF	UBUS	1,861.83	1,847.21
tblVehicleEF	UBUS	135.15	32.35
tblVehicleEF	UBUS	6.43	0.39
tblVehicleEF	UBUS	13.77	0.28
tblVehicleEF	UBUS	0.52	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.07	2.6230e-003
tblVehicleEF	UBUS	1.3790e-003	2.3500e-004
tblVehicleEF	UBUS	0.22	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4850e-003
tblVehicleEF	UBUS	0.07	2.4900e-003
tblVehicleEF	UBUS	1.2680e-003	2.1600e-004
tblVehicleEF	UBUS	8.4220e-003	2.2150e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	4.0730e-003	8.9000e-004

tblVehicleEF	UBUS	0.66	0.06
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.19	0.16
tblVehicleEF	UBUS	0.01	6.5550e-003
tblVehicleEF	UBUS	1.6230e-003	3.2000e-004
tblVehicleEF	UBUS	8.4220e-003	2.2150e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	4.0730e-003	8.9000e-004
tblVehicleEF	UBUS	2.68	3.59
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.30	0.18
tblVehicleEF	UBUS	1.95	3.51
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	9.90	26.99
tblVehicleEF	UBUS	12.23	2.29
tblVehicleEF	UBUS	1,861.83	1,847.22
tblVehicleEF	UBUS	135.15	31.36
tblVehicleEF	UBUS	5.98	0.38
tblVehicleEF	UBUS	13.65	0.26
tblVehicleEF	UBUS	0.52	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.07	2.6230e-003
tblVehicleEF	UBUS	1.3790e-003	2.3500e-004
tblVehicleEF	UBUS	0.22	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4850e-003
tblVehicleEF	UBUS	0.07	2.4900e-003
tblVehicleEF	UBUS	1.2680e-003	2.1600e-004

tblVehicleEF	UBUS	0.02	4.5600e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	9.6640e-003	2.5650e-003
tblVehicleEF	UBUS	0.67	0.06
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.06	0.14
tblVehicleEF	UBUS	0.01	6.5550e-003
tblVehicleEF	UBUS	1.5760e-003	3.1000e-004
tblVehicleEF	UBUS	0.02	4.5600e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	9.6640e-003	2.5650e-003
tblVehicleEF	UBUS	2.69	3.59
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.16	0.16
tblVehicleEF	UBUS	1.95	3.51
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	9.80	26.99
tblVehicleEF	UBUS	14.43	2.71
tblVehicleEF	UBUS	1,861.83	1,847.22
tblVehicleEF	UBUS	135.15	32.09
tblVehicleEF	UBUS	6.31	0.39
tblVehicleEF	UBUS	13.74	0.28
tblVehicleEF	UBUS	0.52	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.07	2.6230e-003
tblVehicleEF	UBUS	1.3790e-003	2.3500e-004
tblVehicleEF	UBUS	0.22	0.04

tblVehicleEF	UBUS	3.0000e-003	5.4850e-003
tblVehicleEF	UBUS	0.07	2.4900e-003
tblVehicleEF	UBUS	1.2680e-003	2.1600e-004
tblVehicleEF	UBUS	9.6690e-003	2.4060e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2700e-003	8.2100e-004
tblVehicleEF	UBUS	0.66	0.06
tblVehicleEF	UBUS	0.03	0.11
tblVehicleEF	UBUS	1.17	0.16
tblVehicleEF	UBUS	0.01	6.5550e-003
tblVehicleEF	UBUS	1.6140e-003	3.1800e-004
tblVehicleEF	UBUS	9.6690e-003	2.4060e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2700e-003	8.2100e-004
tblVehicleEF	UBUS	2.68	3.59
tblVehicleEF	UBUS	0.03	0.11
tblVehicleEF	UBUS	1.28	0.18
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00

tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	319,999,125.00	0.00
tblWater	IndoorWaterUseRate	546,131,562.50	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					
2021	4.0934	12.7435	12.4162	0.0422	3.0449	0.3305	3.3755	0.8375	0.3087	1.1462	0.0000	3,876.4256	3,876.4256	0.3579	0.0000	3,885.3727
Maximum	**4.0934**	**12.7435**	**12.4162**	**0.0422**	**3.0449**	**0.3305**	**3.3755**	**0.8375**	**0.3087**	**1.1462**	**0.0000**	**3,876.4256**	**3,876.4256**	**0.3579**	**0.0000**	**3,885.3727**

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					
2021	4.0934	12.7435	12.4162	0.0422	3.0449	0.3305	3.3755	0.8375	0.3087	1.1462	0.0000	3,876.4247	3,876.4247	0.3579	0.0000	3,885.3718
Maximum	**4.0934**	**12.7435**	**12.4162**	**0.0422**	**3.0449**	**0.3305**	**3.3755**	**0.8375**	**0.3087**	**1.1462**	**0.0000**	**3,876.4247**	**3,876.4247**	**0.3579**	**0.0000**	**3,885.3718**

	ROG	**NOx**	**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	**1-4-2021**	**4-3-2021**	2.9001	2.9001
2	**4-4-2021**	**7-3-2021**	4.9988	4.9988
3	**7-4-2021**	**9-30-2021**	5.6878	5.6878
		Highest	5.6878	5.6878

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	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
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	**19.4472**	**8.0000e-004**	**0.0873**	**1.0000e-005**	**0.0000**	**3.1000e-004**	**3.1000e-004**	**0.0000**	**3.1000e-004**	**3.1000e-004**	**0.0000**	**0.1691**	**0.1691**	**4.5000e-004**	**0.0000**	**0.1803**

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	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
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	**19.4472**	**8.0000e-004**	**0.0873**	**1.0000e-005**	**0.0000**	**3.1000e-004**	**3.1000e-004**	**0.0000**	**3.1000e-004**	**3.1000e-004**	**0.0000**	**0.1691**	**0.1691**	**4.5000e-004**	**0.0000**	**0.1803**

	ROG	NOx	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	Site Preparation	Site Preparation	1/4/2021	1/29/2021	5	20	
2	Grading	Grading	1/30/2021	3/12/2021	5	30	
3	Building Construction	Building Construction	3/13/2021	11/19/2021	5	180	
4	Architectural Coating	Architectural Coating	4/24/2021	11/19/2021	5	150	
5	Paving	Paving	7/3/2021	11/19/2021	5	100	

Acres of Grading (Site Preparation Phase): 400

Acres of Grading (Grading Phase): 600

Acres of Paving: 108.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,618,144; Non-Residential Outdoor: 1,872,715; Striped Parking Area: 284,416 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	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	8.00	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	1,782.00	696.00	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	713.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3928	0.0000	0.3928	0.1222	0.0000	0.1222	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.3928**	**0.0204**	**0.4132**	**0.1222**	**0.0188**	**0.1410**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.8000e-004	4.9500e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.2127	1.2127	3.0000e-005	0.0000	1.2136
Total	**6.6000e-004**	**4.8000e-004**	**4.9500e-003**	**1.0000e-005**	**1.4500e-003**	**1.0000e-005**	**1.4600e-003**	**3.9000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2127**	**1.2127**	**3.0000e-005**	**0.0000**	**1.2136**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3928	0.0000	0.3928	0.1222	0.0000	0.1222	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.3928**	**0.0204**	**0.4132**	**0.1222**	**0.0188**	**0.1410**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7060**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.8000e-004	4.9500e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.2127	1.2127	3.0000e-005	0.0000	1.2136
Total	**6.6000e-004**	**4.8000e-004**	**4.9500e-003**	**1.0000e-005**	**1.4500e-003**	**1.0000e-005**	**1.4600e-003**	**3.9000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2127**	**1.2127**	**3.0000e-005**	**0.0000**	**1.2136**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.4988	0.0000	0.4988	0.1337	0.0000	0.1337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1257	1.3920	0.9264	1.8600e-003		0.0596	0.0596		0.0548	0.0548	0.0000	163.4849	163.4849	0.0529	0.0000	164.8068
Total	**0.1257**	**1.3920**	**0.9264**	**1.8600e-003**	**0.4988**	**0.0596**	**0.5584**	**0.1337**	**0.0548**	**0.1885**	**0.0000**	**163.4849**	**163.4849**	**0.0529**	**0.0000**	**164.8068**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-003	1.5900e-003	0.0165	4.0000e-005	4.8300e-003	3.0000e-005	4.8700e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.0424	4.0424	1.2000e-004	0.0000	4.0453
Total	**2.2000e-003**	**1.5900e-003**	**0.0165**	**4.0000e-005**	**4.8300e-003**	**3.0000e-005**	**4.8700e-003**	**1.2800e-003**	**3.0000e-005**	**1.3100e-003**	**0.0000**	**4.0424**	**4.0424**	**1.2000e-004**	**0.0000**	**4.0453**

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.4988	0.0000	0.4988	0.1337	0.0000	0.1337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1257	1.3920	0.9264	1.8600e-003		0.0596	0.0596		0.0548	0.0548	0.0000	163.4848	163.4848	0.0529	0.0000	164.8066
Total	**0.1257**	**1.3920**	**0.9264**	**1.8600e-003**	**0.4988**	**0.0596**	**0.5584**	**0.1337**	**0.0548**	**0.1885**	**0.0000**	**163.4848**	**163.4848**	**0.0529**	**0.0000**	**164.8066**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-003	1.5900e-003	0.0165	4.0000e-005	4.8300e-003	3.0000e-005	4.8700e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.0424	4.0424	1.2000e-004	0.0000	4.0453
Total	**2.2000e-003**	**1.5900e-003**	**0.0165**	**4.0000e-005**	**4.8300e-003**	**3.0000e-005**	**4.8700e-003**	**1.2800e-003**	**3.0000e-005**	**1.3100e-003**	**0.0000**	**4.0424**	**4.0424**	**1.2000e-004**	**0.0000**	**4.0453**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3641	3.3749	3.1807	5.1900e-003		0.1845	0.1845		0.1733	0.1733	0.0000	446.7775	446.7775	0.1102	0.0000	449.5335
Total	**0.3641**	**3.3749**	**3.1807**	**5.1900e-003**		**0.1845**	**0.1845**		**0.1733**	**0.1733**	**0.0000**	**446.7775**	**446.7775**	**0.1102**	**0.0000**	**449.5335**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1701	6.2030	1.2646	0.0173	0.4177	0.0110	0.4288	0.1206	0.0105	0.1311	0.0000	1,655.9633	1,655.9633	0.1082	0.0000	1,658.6681
Worker	0.5884	0.4245	4.4071	0.0120	1.2924	8.7000e-003	1.3011	0.3433	8.0100e-003	0.3513	0.0000	1,080.5288	1,080.5288	0.0310	0.0000	1,081.3039
Total	**0.7584**	**6.6275**	**5.6716**	**0.0293**	**1.7101**	**0.0197**	**1.7298**	**0.4639**	**0.0186**	**0.4824**	**0.0000**	**2,736.4921**	**2,736.4921**	**0.1392**	**0.0000**	**2,739.9719**

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3641	3.3749	3.1807	5.1900e-003		0.1845	0.1845		0.1733	0.1733	0.0000	446.7770	446.7770	0.1102	0.0000	449.5329
Total	**0.3641**	**3.3749**	**3.1807**	**5.1900e-003**		**0.1845**	**0.1845**		**0.1733**	**0.1733**	**0.0000**	**446.7770**	**446.7770**	**0.1102**	**0.0000**	**449.5329**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1701	6.2030	1.2646	0.0173	0.4177	0.0110	0.4288	0.1206	0.0105	0.1311	0.0000	1,655.9633	1,655.9633	0.1082	0.0000	1,658.6681
Worker	0.5884	0.4245	4.4071	0.0120	1.2924	8.7000e-003	1.3011	0.3433	8.0100e-003	0.3513	0.0000	1,080.5288	1,080.5288	0.0310	0.0000	1,081.3039
Total	**0.7584**	**6.6275**	**5.6716**	**0.0293**	**1.7101**	**0.0197**	**1.7298**	**0.4639**	**0.0186**	**0.4824**	**0.0000**	**2,736.4921**	**2,736.4921**	**0.1392**	**0.0000**	**2,739.9719**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.3951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0219	0.1527	0.1818	3.0000e-004		9.4100e-003	9.4100e-003		9.4100e-003	9.4100e-003	0.0000	25.5325	25.5325	1.7500e-003	0.0000	25.5763
Total	**2.4170**	**0.1527**	**0.1818**	**3.0000e-004**		**9.4100e-003**	**9.4100e-003**		**9.4100e-003**	**9.4100e-003**	**0.0000**	**25.5325**	**25.5325**	**1.7500e-003**	**0.0000**	**25.5763**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1962	0.1415	1.4694	3.9900e-003	0.4309	2.9000e-003	0.4338	0.1145	2.6700e-003	0.1171	0.0000	360.2773	360.2773	0.0103	0.0000	360.5358
Total	**0.1962**	**0.1415**	**1.4694**	**3.9900e-003**	**0.4309**	**2.9000e-003**	**0.4338**	**0.1145**	**2.6700e-003**	**0.1171**	**0.0000**	**360.2773**	**360.2773**	**0.0103**	**0.0000**	**360.5358**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.3951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0219	0.1527	0.1818	3.0000e-004		9.4100e-003	9.4100e-003		9.4100e-003	9.4100e-003	0.0000	25.5325	25.5325	1.7500e-003	0.0000	25.5763
Total	**2.4170**	**0.1527**	**0.1818**	**3.0000e-004**		**9.4100e-003**	**9.4100e-003**		**9.4100e-003**	**9.4100e-003**	**0.0000**	**25.5325**	**25.5325**	**1.7500e-003**	**0.0000**	**25.5763**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1962	0.1415	1.4694	3.9900e-003	0.4309	2.9000e-003	0.4338	0.1145	2.6700e-003	0.1171	0.0000	360.2773	360.2773	0.0103	0.0000	360.5358
Total	**0.1962**	**0.1415**	**1.4694**	**3.9900e-003**	**0.4309**	**2.9000e-003**	**0.4338**	**0.1145**	**2.6700e-003**	**0.1171**	**0.0000**	**360.2773**	**360.2773**	**0.0103**	**0.0000**	**360.5358**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0628	0.6460	0.7327	1.1400e-003		0.0339	0.0339		0.0312	0.0312	0.0000	100.1174	100.1174	0.0324	0.0000	100.9269
Paving	0.1247					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1875**	**0.6460**	**0.7327**	**1.1400e-003**		**0.0339**	**0.0339**		**0.0312**	**0.0312**	**0.0000**	**100.1174**	**100.1174**	**0.0324**	**0.0000**	**100.9269**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.9900e-003	0.0206	6.0000e-005	6.0400e-003	4.0000e-005	6.0800e-003	1.6100e-003	4.0000e-005	1.6400e-003	0.0000	5.0530	5.0530	1.4000e-004	0.0000	5.0566
Total	**2.7500e-003**	**1.9900e-003**	**0.0206**	**6.0000e-005**	**6.0400e-003**	**4.0000e-005**	**6.0800e-003**	**1.6100e-003**	**4.0000e-005**	**1.6400e-003**	**0.0000**	**5.0530**	**5.0530**	**1.4000e-004**	**0.0000**	**5.0566**

3.6 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0628	0.6460	0.7327	1.1400e-003		0.0339	0.0339		0.0312	0.0312	0.0000	100.1173	100.1173	0.0324	0.0000	100.9268
Paving	0.1247					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1875**	**0.6460**	**0.7327**	**1.1400e-003**		**0.0339**	**0.0339**		**0.0312**	**0.0312**	**0.0000**	**100.1173**	**100.1173**	**0.0324**	**0.0000**	**100.9268**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.9900e-003	0.0206	6.0000e-005	6.0400e-003	4.0000e-005	6.0800e-003	1.6100e-003	4.0000e-005	1.6400e-003	0.0000	5.0530	5.0530	1.4000e-004	0.0000	5.0566
Total	**2.7500e-003**	**1.9900e-003**	**0.0206**	**6.0000e-005**	**6.0400e-003**	**4.0000e-005**	**6.0800e-003**	**1.6100e-003**	**4.0000e-005**	**1.6400e-003**	**0.0000**	**5.0530**	**5.0530**	**1.4000e-004**	**0.0000**	**5.0566**

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
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	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
General Light Industry	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Other Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

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					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
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**

5.2 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					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
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			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Unmitigated	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803

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	4.5048					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.9342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1500e-003	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Total	**19.4471**	**8.0000e-004**	**0.0873**	**1.0000e-005**		**3.1000e-004**	**3.1000e-004**		**3.1000e-004**	**3.1000e-004**	**0.0000**	**0.1691**	**0.1691**	**4.5000e-004**	**0.0000**	**0.1803**

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	4.5048					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.9342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1500e-003	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Total	**19.4471**	**8.0000e-004**	**0.0873**	**1.0000e-005**		**3.1000e-004**	**3.1000e-004**		**3.1000e-004**	**3.1000e-004**	**0.0000**	**0.1691**	**0.1691**	**4.5000e-004**	**0.0000**	**0.1803**

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			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

This page intentionally left blank

APPENDIX 4.2:

CALEEMOD ANNUAL OPERATIONAL EMISSIONS MODEL OUTPUTS (PASSENGER CARS)

Hesperia Commerce Center II (Operations - Passenger Cars)

San Bernardino-Mojave Desert County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1,383.78	1000sqft	31.77	1,383,781.00	0
Unrefrigerated Warehouse-No Rail	2,361.65	1000sqft	54.22	2,361,648.00	0
Other Asphalt Surfaces	3,493.87	1000sqft	80.21	3,493,865.00	0
Other Non-Asphalt Surfaces	594.00	1000sqft	13.64	593,998.00	0
Parking Lot	1,631.00	Space	14.96	652,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Estimated intensity factor for total energy delivered by SCE based on the total CO2 emission factors and SB100 requirements for year 2021

Land Use - Total Project Area is 194.80 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the Hesperia Commerce Center II Traffic Impact Analysis by Urban Crossroads, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use -

Water And Wastewater - As per the City of Hesperia General Plan Evaluation Water Supply Evalution (2009), the water demand fator for industrial land uses were 3,000 gallons per day per acre (gpd/acre).

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20

tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblLandUse	LandUseSquareFeet	1,383,780.00	1,383,781.00
tblLandUse	LandUseSquareFeet	2,361,650.00	2,361,648.00
tblLandUse	LandUseSquareFeet	3,493,860.00	3,493,865.00
tblLandUse	LotAcreage	14.68	14.96
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00

tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	15.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	515
tblVehicleEF	HHD	1.24	0.03
tblVehicleEF	HHD	0.04	2.7731e-003
tblVehicleEF	HHD	0.11	1.1831e-007
tblVehicleEF	HHD	3.46	9.63
tblVehicleEF	HHD	0.58	0.28
tblVehicleEF	HHD	1.92	8.3347e-004
tblVehicleEF	HHD	6,983.95	1,752.04
tblVehicleEF	HHD	1,493.95	1,319.40
tblVehicleEF	HHD	5.71	0.01
tblVehicleEF	HHD	28.07	8.89
tblVehicleEF	HHD	2.87	2.62
tblVehicleEF	HHD	20.20	1.95
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.5000e-005	4.7619e-007
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8820e-003	8.9828e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.0000e-005	4.3784e-007

tblVehicleEF	HHD	9.3000e-005	2.3640e-006
tblVehicleEF	HHD	3.4490e-003	6.9327e-005
tblVehicleEF	HHD	0.89	0.73
tblVehicleEF	HHD	5.7000e-005	1.2306e-006
tblVehicleEF	HHD	0.09	0.05
tblVehicleEF	HHD	2.4200e-004	3.6754e-004
tblVehicleEF	HHD	0.06	6.0841e-007
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.9000e-005	1.1607e-007
tblVehicleEF	HHD	9.3000e-005	2.3640e-006
tblVehicleEF	HHD	3.4490e-003	6.9327e-005
tblVehicleEF	HHD	1.02	0.83
tblVehicleEF	HHD	5.7000e-005	1.2306e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.4200e-004	3.6754e-004
tblVehicleEF	HHD	0.07	6.6614e-007
tblVehicleEF	HHD	1.17	0.04
tblVehicleEF	HHD	0.04	2.7743e-003
tblVehicleEF	HHD	0.11	1.1083e-007
tblVehicleEF	HHD	2.52	9.45
tblVehicleEF	HHD	0.58	0.28
tblVehicleEF	HHD	1.80	7.6782e-004
tblVehicleEF	HHD	7,395.94	1,740.61
tblVehicleEF	HHD	1,493.95	1,319.40
tblVehicleEF	HHD	5.71	0.01
tblVehicleEF	HHD	28.97	8.56

tblVehicleEF	HHD	2.70	2.46
tblVehicleEF	HHD	20.19	1.95
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.5000e-005	4.7619e-007
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8820e-003	8.9828e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.0000e-005	4.3784e-007
tblVehicleEF	HHD	1.8400e-004	5.6532e-006
tblVehicleEF	HHD	3.9090e-003	8.7762e-005
tblVehicleEF	HHD	0.84	0.76
tblVehicleEF	HHD	1.2900e-004	4.0334e-006
tblVehicleEF	HHD	0.09	0.05
tblVehicleEF	HHD	2.4800e-004	3.8408e-004
tblVehicleEF	HHD	0.06	5.7228e-007
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.7000e-005	1.1504e-007
tblVehicleEF	HHD	1.8400e-004	5.6532e-006
tblVehicleEF	HHD	3.9090e-003	8.7762e-005
tblVehicleEF	HHD	0.97	0.87
tblVehicleEF	HHD	1.2900e-004	4.0334e-006
tblVehicleEF	HHD	0.13	0.06

tblVehicleEF	HHD	2.4800e-004	3.8408e-004
tblVehicleEF	HHD	0.06	6.2657e-007
tblVehicleEF	HHD	1.34	0.03
tblVehicleEF	HHD	0.04	2.4809e-003
tblVehicleEF	HHD	0.11	1.1631e-007
tblVehicleEF	HHD	4.76	9.88
tblVehicleEF	HHD	0.58	0.28
tblVehicleEF	HHD	1.89	8.1027e-004
tblVehicleEF	HHD	6,415.00	1,767.74
tblVehicleEF	HHD	1,493.95	1,319.16
tblVehicleEF	HHD	5.71	0.01
tblVehicleEF	HHD	26.84	9.34
tblVehicleEF	HHD	2.83	2.58
tblVehicleEF	HHD	20.20	1.95
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.5000e-005	4.7619e-007
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8820e-003	8.9822e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.0000e-005	4.3784e-007
tblVehicleEF	HHD	9.4000e-005	2.7344e-006
tblVehicleEF	HHD	3.7830e-003	8.4410e-005
tblVehicleEF	HHD	0.96	0.68

tblVehicleEF	HHD	5.6000e-005	1.1093e-006
tblVehicleEF	HHD	0.09	0.05
tblVehicleEF	HHD	2.5900e-004	3.8293e-004
tblVehicleEF	HHD	0.06	5.9854e-007
tblVehicleEF	HHD	0.06	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.9000e-005	1.1571e-007
tblVehicleEF	HHD	9.4000e-005	2.7344e-006
tblVehicleEF	HHD	3.7830e-003	8.4410e-005
tblVehicleEF	HHD	1.10	0.78
tblVehicleEF	HHD	5.6000e-005	1.1093e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.5900e-004	3.8293e-004
tblVehicleEF	HHD	0.07	6.5533e-007
tblVehicleEF	LDA	4.6640e-003	2.6749e-003
tblVehicleEF	LDA	6.4640e-003	0.06
tblVehicleEF	LDA	0.62	0.67
tblVehicleEF	LDA	1.32	2.30
tblVehicleEF	LDA	261.85	266.85
tblVehicleEF	LDA	59.28	55.75
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.09	0.21
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7130e-003	1.4183e-003
tblVehicleEF	LDA	2.3020e-003	1.9604e-003
tblVehicleEF	LDA	0.02	0.02

tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5790e-003	1.3072e-003
tblVehicleEF	LDA	2.1170e-003	1.8026e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	2.6230e-003	2.6339e-003
tblVehicleEF	LDA	6.1500e-004	5.5041e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.10	0.29
tblVehicleEF	LDA	5.3170e-003	3.1454e-003
tblVehicleEF	LDA	5.3900e-003	0.05
tblVehicleEF	LDA	0.76	0.85
tblVehicleEF	LDA	1.10	1.87
tblVehicleEF	LDA	286.52	295.36
tblVehicleEF	LDA	59.28	54.91
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.08	0.19
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003

tblVehicleEF	LDA	1.7130e-003	1.4183e-003
tblVehicleEF	LDA	2.3020e-003	1.9604e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5790e-003	1.3072e-003
tblVehicleEF	LDA	2.1170e-003	1.8026e-003
tblVehicleEF	LDA	0.10	0.16
tblVehicleEF	LDA	0.13	0.14
tblVehicleEF	LDA	0.08	0.13
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.8710e-003	2.9154e-003
tblVehicleEF	LDA	6.1100e-004	5.4218e-004
tblVehicleEF	LDA	0.10	0.16
tblVehicleEF	LDA	0.13	0.14
tblVehicleEF	LDA	0.08	0.13
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	4.5320e-003	2.5905e-003
tblVehicleEF	LDA	6.4200e-003	0.06
tblVehicleEF	LDA	0.58	0.62
tblVehicleEF	LDA	1.30	2.20
tblVehicleEF	LDA	256.02	258.48
tblVehicleEF	LDA	59.28	55.58
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	0.09	0.20
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7130e-003	1.4183e-003
tblVehicleEF	LDA	2.3020e-003	1.9604e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5790e-003	1.3072e-003
tblVehicleEF	LDA	2.1170e-003	1.8026e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	2.5640e-003	2.5512e-003
tblVehicleEF	LDA	6.1500e-004	5.4871e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.09	0.28
tblVehicleEF	LDT1	0.02	7.3485e-003
tblVehicleEF	LDT1	0.02	0.10
tblVehicleEF	LDT1	1.71	1.50
tblVehicleEF	LDT1	4.02	2.62

tblVehicleEF	LDT1	323.73	316.00
tblVehicleEF	LDT1	72.77	67.91
tblVehicleEF	LDT1	0.18	0.15
tblVehicleEF	LDT1	0.24	0.33
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.8630e-003	2.1814e-003
tblVehicleEF	LDT1	3.8930e-003	3.1178e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.6370e-003	2.0076e-003
tblVehicleEF	LDT1	3.5800e-003	2.8671e-003
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.36	0.29
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.21	0.98
tblVehicleEF	LDT1	0.29	0.50
tblVehicleEF	LDT1	3.2600e-003	3.1199e-003
tblVehicleEF	LDT1	7.9900e-004	6.7045e-004
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.36	0.29
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.21	0.98
tblVehicleEF	LDT1	0.31	0.55
tblVehicleEF	LDT1	0.02	8.5438e-003

tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	2.05	1.86
tblVehicleEF	LDT1	3.30	2.13
tblVehicleEF	LDT1	352.65	345.58
tblVehicleEF	LDT1	72.77	66.80
tblVehicleEF	LDT1	0.16	0.14
tblVehicleEF	LDT1	0.22	0.31
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.8630e-003	2.1814e-003
tblVehicleEF	LDT1	3.8930e-003	3.1178e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.6370e-003	2.0076e-003
tblVehicleEF	LDT1	3.5800e-003	2.8671e-003
tblVehicleEF	LDT1	0.40	0.49
tblVehicleEF	LDT1	0.44	0.39
tblVehicleEF	LDT1	0.29	0.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	1.00
tblVehicleEF	LDT1	0.24	0.41
tblVehicleEF	LDT1	3.5540e-003	3.4119e-003
tblVehicleEF	LDT1	7.8600e-004	6.5955e-004
tblVehicleEF	LDT1	0.40	0.49
tblVehicleEF	LDT1	0.44	0.39
tblVehicleEF	LDT1	0.29	0.37
tblVehicleEF	LDT1	0.06	0.06

tblVehicleEF	LDT1	0.21	1.00
tblVehicleEF	LDT1	0.26	0.44
tblVehicleEF	LDT1	0.01	7.1250e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.62	1.39
tblVehicleEF	LDT1	3.95	2.51
tblVehicleEF	LDT1	316.91	307.32
tblVehicleEF	LDT1	72.77	67.68
tblVehicleEF	LDT1	0.17	0.14
tblVehicleEF	LDT1	0.24	0.32
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.8630e-003	2.1814e-003
tblVehicleEF	LDT1	3.8930e-003	3.1178e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.6370e-003	2.0076e-003
tblVehicleEF	LDT1	3.5800e-003	2.8671e-003
tblVehicleEF	LDT1	0.20	0.24
tblVehicleEF	LDT1	0.41	0.34
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.25	1.16
tblVehicleEF	LDT1	0.28	0.49
tblVehicleEF	LDT1	3.1900e-003	3.0341e-003
tblVehicleEF	LDT1	7.9800e-004	6.6824e-004
tblVehicleEF	LDT1	0.20	0.24

tblVehicleEF	LDT1	0.41	0.34
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.25	1.16
tblVehicleEF	LDT1	0.31	0.53
tblVehicleEF	LDT2	6.9330e-003	4.6236e-003
tblVehicleEF	LDT2	9.2890e-003	0.08
tblVehicleEF	LDT2	0.85	1.02
tblVehicleEF	LDT2	1.85	3.00
tblVehicleEF	LDT2	363.70	341.92
tblVehicleEF	LDT2	81.97	73.81
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.16	0.36
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.7370e-003	1.4805e-003
tblVehicleEF	LDT2	2.4180e-003	2.0856e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.5980e-003	1.3625e-003
tblVehicleEF	LDT2	2.2230e-003	1.9178e-003
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.13	0.41

tblVehicleEF	LDT2	3.6440e-003	3.3752e-003
tblVehicleEF	LDT2	8.5100e-004	7.2871e-004
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.14	0.45
tblVehicleEF	LDT2	7.8730e-003	5.4059e-003
tblVehicleEF	LDT2	7.7350e-003	0.07
tblVehicleEF	LDT2	1.04	1.28
tblVehicleEF	LDT2	1.53	2.43
tblVehicleEF	LDT2	397.09	371.16
tblVehicleEF	LDT2	81.97	72.66
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.15	0.33
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.7370e-003	1.4805e-003
tblVehicleEF	LDT2	2.4180e-003	2.0856e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.5980e-003	1.3625e-003
tblVehicleEF	LDT2	2.2230e-003	1.9178e-003
tblVehicleEF	LDT2	0.14	0.26
tblVehicleEF	LDT2	0.16	0.21
tblVehicleEF	LDT2	0.12	0.22

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	3.9810e-003	3.6638e-003
tblVehicleEF	LDT2	8.4600e-004	7.1735e-004
tblVehicleEF	LDT2	0.14	0.26
tblVehicleEF	LDT2	0.16	0.21
tblVehicleEF	LDT2	0.12	0.22
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.11	0.36
tblVehicleEF	LDT2	6.7430e-003	4.4829e-003
tblVehicleEF	LDT2	9.2200e-003	0.08
tblVehicleEF	LDT2	0.81	0.94
tblVehicleEF	LDT2	1.82	2.87
tblVehicleEF	LDT2	355.82	333.34
tblVehicleEF	LDT2	81.97	73.58
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.16	0.35
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.7370e-003	1.4805e-003
tblVehicleEF	LDT2	2.4180e-003	2.0856e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.5980e-003	1.3625e-003
tblVehicleEF	LDT2	2.2230e-003	1.9178e-003

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.15	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.64
tblVehicleEF	LDT2	0.12	0.40
tblVehicleEF	LDT2	3.5650e-003	3.2904e-003
tblVehicleEF	LDT2	8.5100e-004	7.2645e-004
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.15	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.64
tblVehicleEF	LDT2	0.14	0.44
tblVehicleEF	LHD1	5.4860e-003	4.7002e-003
tblVehicleEF	LHD1	0.01	7.6648e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.16	1.15
tblVehicleEF	LHD1	2.77	1.07
tblVehicleEF	LHD1	9.23	9.52
tblVehicleEF	LHD1	614.92	651.43
tblVehicleEF	LHD1	30.92	10.46
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.26	2.05
tblVehicleEF	LHD1	1.02	0.30
tblVehicleEF	LHD1	9.6600e-004	1.0218e-003

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0070e-003	2.7998e-004
tblVehicleEF	LHD1	9.2400e-004	9.7761e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5280e-003	2.5167e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2600e-004	2.5743e-004
tblVehicleEF	LHD1	3.7970e-003	3.4939e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8480e-003	1.5523e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.35	0.67
tblVehicleEF	LHD1	0.29	0.08
tblVehicleEF	LHD1	9.2000e-005	9.2012e-005
tblVehicleEF	LHD1	6.0360e-003	6.3337e-003
tblVehicleEF	LHD1	3.6200e-004	1.0351e-004
tblVehicleEF	LHD1	3.7970e-003	3.4939e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8480e-003	1.5523e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.35	0.67
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.4860e-003	4.7187e-003

tblVehicleEF	LHD1	0.01	7.8854e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.18	1.17
tblVehicleEF	LHD1	2.58	0.99
tblVehicleEF	LHD1	9.23	9.52
tblVehicleEF	LHD1	614.92	651.48
tblVehicleEF	LHD1	30.92	10.31
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.12	1.92
tblVehicleEF	LHD1	0.97	0.29
tblVehicleEF	LHD1	9.6600e-004	1.0218e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0070e-003	2.7998e-004
tblVehicleEF	LHD1	9.2400e-004	9.7761e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5280e-003	2.5167e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2600e-004	2.5743e-004
tblVehicleEF	LHD1	7.5090e-003	7.6478e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.2150e-003	4.3187e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.35	0.68

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.2012e-005
tblVehicleEF	LHD1	6.0370e-003	6.3342e-003
tblVehicleEF	LHD1	3.5800e-004	1.0204e-004
tblVehicleEF	LHD1	7.5090e-003	7.6478e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.2150e-003	4.3187e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.35	0.68
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.4860e-003	4.7053e-003
tblVehicleEF	LHD1	0.01	7.6945e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.16	1.15
tblVehicleEF	LHD1	2.72	1.04
tblVehicleEF	LHD1	9.23	9.52
tblVehicleEF	LHD1	614.92	651.44
tblVehicleEF	LHD1	30.92	10.41
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.22	2.02
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.6600e-004	1.0218e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01

tblVehicleEF	LHD1	1.0070e-003	2.7998e-004
tblVehicleEF	LHD1	9.2400e-004	9.7761e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5280e-003	2.5167e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2600e-004	2.5743e-004
tblVehicleEF	LHD1	4.1760e-003	4.1507e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8200e-003	1.4654e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.38	0.72
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.2000e-005	9.2012e-005
tblVehicleEF	LHD1	6.0360e-003	6.3337e-003
tblVehicleEF	LHD1	3.6100e-004	1.0302e-004
tblVehicleEF	LHD1	4.1760e-003	4.1507e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8200e-003	1.4654e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.38	0.72
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	3.8190e-003	2.8844e-003
tblVehicleEF	LHD2	5.2410e-003	4.5860e-003
tblVehicleEF	LHD2	9.1660e-003	8.8630e-003
tblVehicleEF	LHD2	0.12	0.13

tblVehicleEF	LHD2	0.55	0.69
tblVehicleEF	LHD2	1.29	0.55
tblVehicleEF	LHD2	14.32	15.17
tblVehicleEF	LHD2	614.63	635.50
tblVehicleEF	LHD2	24.89	6.65
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.69	2.20
tblVehicleEF	LHD2	0.56	0.17
tblVehicleEF	LHD2	1.3030e-003	1.5156e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.2500e-004	1.1847e-004
tblVehicleEF	LHD2	1.2470e-003	1.4501e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6810e-003	2.7391e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9100e-004	1.0893e-004
tblVehicleEF	LHD2	1.4000e-003	1.4389e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.3800e-004	6.7034e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.27
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4471e-004
tblVehicleEF	LHD2	5.9810e-003	6.1158e-003

tblVehicleEF	LHD2	2.7300e-004	6.5763e-005
tblVehicleEF	LHD2	1.4000e-003	1.4389e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.3800e-004	6.7034e-004
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.27
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	3.8190e-003	2.8953e-003
tblVehicleEF	LHD2	5.3190e-003	4.6415e-003
tblVehicleEF	LHD2	8.7380e-003	8.3742e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.70
tblVehicleEF	LHD2	1.21	0.51
tblVehicleEF	LHD2	14.32	15.17
tblVehicleEF	LHD2	614.63	635.52
tblVehicleEF	LHD2	24.89	6.57
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.59	2.07
tblVehicleEF	LHD2	0.54	0.16
tblVehicleEF	LHD2	1.3030e-003	1.5156e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.2500e-004	1.1847e-004
tblVehicleEF	LHD2	1.2470e-003	1.4501e-003
tblVehicleEF	LHD2	0.04	0.04

tblVehicleEF	LHD2	2.6810e-003	2.7391e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9100e-004	1.0893e-004
tblVehicleEF	LHD2	2.7070e-003	3.1227e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.6130e-003	1.8398e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4471e-004
tblVehicleEF	LHD2	5.9810e-003	6.1159e-003
tblVehicleEF	LHD2	2.7100e-004	6.5012e-005
tblVehicleEF	LHD2	2.7070e-003	3.1227e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.6130e-003	1.8398e-003
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	LHD2	3.8190e-003	2.8873e-003
tblVehicleEF	LHD2	5.2490e-003	4.5947e-003
tblVehicleEF	LHD2	9.0820e-003	8.7354e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.69
tblVehicleEF	LHD2	1.27	0.54
tblVehicleEF	LHD2	14.32	15.17

tblVehicleEF	LHD2	614.63	635.51
tblVehicleEF	LHD2	24.89	6.62
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.67	2.17
tblVehicleEF	LHD2	0.55	0.17
tblVehicleEF	LHD2	1.3030e-003	1.5156e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.2500e-004	1.1847e-004
tblVehicleEF	LHD2	1.2470e-003	1.4501e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6810e-003	2.7391e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9100e-004	1.0893e-004
tblVehicleEF	LHD2	1.4600e-003	1.6416e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	6.2170e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.29
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4471e-004
tblVehicleEF	LHD2	5.9810e-003	6.1158e-003
tblVehicleEF	LHD2	2.7200e-004	6.5519e-005
tblVehicleEF	LHD2	1.4600e-003	1.6416e-003
tblVehicleEF	LHD2	0.05	0.05

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	6.2170e-004
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.29
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.16	0.27
tblVehicleEF	MCY	21.02	22.01
tblVehicleEF	MCY	9.91	8.98
tblVehicleEF	MCY	167.12	210.64
tblVehicleEF	MCY	46.87	62.81
tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.8190e-003	1.7184e-003
tblVehicleEF	MCY	3.7460e-003	3.2085e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.7050e-003	1.6112e-003
tblVehicleEF	MCY	3.5370e-003	3.0299e-003
tblVehicleEF	MCY	1.45	1.46
tblVehicleEF	MCY	0.85	0.88
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	2.26	2.21
tblVehicleEF	MCY	0.50	2.24
tblVehicleEF	MCY	2.17	1.99

tblVehicleEF	MCY	2.0790e-003	2.0845e-003
tblVehicleEF	MCY	6.9500e-004	6.2156e-004
tblVehicleEF	MCY	1.45	1.46
tblVehicleEF	MCY	0.85	0.88
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	2.76	2.69
tblVehicleEF	MCY	0.50	2.24
tblVehicleEF	MCY	2.37	2.16
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	21.14	22.21
tblVehicleEF	MCY	9.06	8.04
tblVehicleEF	MCY	167.12	210.71
tblVehicleEF	MCY	46.87	60.21
tblVehicleEF	MCY	0.99	1.00
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.8190e-003	1.7184e-003
tblVehicleEF	MCY	3.7460e-003	3.2085e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.7050e-003	1.6112e-003
tblVehicleEF	MCY	3.5370e-003	3.0299e-003
tblVehicleEF	MCY	3.14	3.54
tblVehicleEF	MCY	1.28	1.46
tblVehicleEF	MCY	2.14	2.53

tblVehicleEF	MCY	2.19	2.14
tblVehicleEF	MCY	0.50	2.25
tblVehicleEF	MCY	1.87	1.65
tblVehicleEF	MCY	2.0790e-003	2.0851e-003
tblVehicleEF	MCY	6.7100e-004	5.9584e-004
tblVehicleEF	MCY	3.14	3.54
tblVehicleEF	MCY	1.28	1.46
tblVehicleEF	MCY	2.14	2.53
tblVehicleEF	MCY	2.69	2.61
tblVehicleEF	MCY	0.50	2.25
tblVehicleEF	MCY	2.03	1.80
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.25
tblVehicleEF	MCY	20.06	20.78
tblVehicleEF	MCY	9.53	8.40
tblVehicleEF	MCY	167.12	208.52
tblVehicleEF	MCY	46.87	61.47
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.8190e-003	1.7184e-003
tblVehicleEF	MCY	3.7460e-003	3.2085e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.7050e-003	1.6112e-003
tblVehicleEF	MCY	3.5370e-003	3.0299e-003

tblVehicleEF	MCY	1.71	1.84
tblVehicleEF	MCY	1.14	1.19
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	2.22	2.16
tblVehicleEF	MCY	0.57	2.54
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.0630e-003	2.0635e-003
tblVehicleEF	MCY	6.8600e-004	6.0833e-004
tblVehicleEF	MCY	1.71	1.84
tblVehicleEF	MCY	1.14	1.19
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	2.71	2.63
tblVehicleEF	MCY	0.57	2.54
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.7807e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.55	1.37
tblVehicleEF	MDV	3.59	3.68
tblVehicleEF	MDV	498.66	425.57
tblVehicleEF	MDV	110.76	90.69
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.36	0.44
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8680e-003	1.6562e-003
tblVehicleEF	MDV	2.5890e-003	2.2357e-003
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.5301e-003
tblVehicleEF	MDV	2.3820e-003	2.0580e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.56
tblVehicleEF	MDV	0.28	0.52
tblVehicleEF	MDV	5.0000e-003	4.1982e-003
tblVehicleEF	MDV	1.1710e-003	8.9536e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.56
tblVehicleEF	MDV	0.31	0.57
tblVehicleEF	MDV	0.02	7.8195e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.87	1.69
tblVehicleEF	MDV	2.99	2.99
tblVehicleEF	MDV	542.90	456.91
tblVehicleEF	MDV	110.76	89.27
tblVehicleEF	MDV	0.18	0.14
tblVehicleEF	MDV	0.33	0.41
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003

tblVehicleEF	MDV	1.8680e-003	1.6562e-003
tblVehicleEF	MDV	2.5890e-003	2.2357e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.5301e-003
tblVehicleEF	MDV	2.3820e-003	2.0580e-003
tblVehicleEF	MDV	0.21	0.29
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.18	0.26
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.11	0.57
tblVehicleEF	MDV	0.24	0.43
tblVehicleEF	MDV	5.4470e-003	4.5076e-003
tblVehicleEF	MDV	1.1600e-003	8.8141e-004
tblVehicleEF	MDV	0.21	0.29
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.18	0.26
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.11	0.57
tblVehicleEF	MDV	0.26	0.47
tblVehicleEF	MDV	0.01	6.5501e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.47	1.27
tblVehicleEF	MDV	3.53	3.52
tblVehicleEF	MDV	488.33	416.35
tblVehicleEF	MDV	110.76	90.40
tblVehicleEF	MDV	0.19	0.15

tblVehicleEF	MDV	0.35	0.43
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8680e-003	1.6562e-003
tblVehicleEF	MDV	2.5890e-003	2.2357e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.5301e-003
tblVehicleEF	MDV	2.3820e-003	2.0580e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.65
tblVehicleEF	MDV	0.28	0.51
tblVehicleEF	MDV	4.8960e-003	4.1071e-003
tblVehicleEF	MDV	1.1700e-003	8.9248e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.13	0.65
tblVehicleEF	MDV	0.31	0.56
tblVehicleEF	MH	0.04	4.0644e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.60	0.38
tblVehicleEF	MH	6.96	0.00

tblVehicleEF	MH	1,048.28	936.22
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.64	5.05
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.19
tblVehicleEF	MH	1.2510e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2210e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.18
tblVehicleEF	MH	1.1500e-003	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	8.8506e-003
tblVehicleEF	MH	7.2000e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.04	4.0644e-003

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.74	0.38
tblVehicleEF	MH	6.31	0.00
tblVehicleEF	MH	1,048.28	936.22
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.50	4.73
tblVehicleEF	MH	0.90	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.19
tblVehicleEF	MH	1.2510e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2210e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.18
tblVehicleEF	MH	1.1500e-003	0.00
tblVehicleEF	MH	3.12	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.8506e-003
tblVehicleEF	MH	7.0900e-004	0.00
tblVehicleEF	MH	3.12	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.17	0.10

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.04	4.0644e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.61	0.38
tblVehicleEF	MH	6.87	0.00
tblVehicleEF	MH	1,048.28	936.22
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.61	4.97
tblVehicleEF	MH	0.94	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.19
tblVehicleEF	MH	1.2510e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2210e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.18
tblVehicleEF	MH	1.1500e-003	0.00
tblVehicleEF	MH	1.88	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	8.8506e-003
tblVehicleEF	MH	7.1900e-004	0.00
tblVehicleEF	MH	1.88	0.00

tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.43	0.00
tblVehicleEF	MHD	0.02	5.4628e-003
tblVehicleEF	MHD	4.1450e-003	6.2249e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.33	0.44
tblVehicleEF	MHD	0.31	0.67
tblVehicleEF	MHD	6.00	1.87
tblVehicleEF	MHD	155.10	70.79
tblVehicleEF	MHD	1,105.72	1,107.75
tblVehicleEF	MHD	53.92	15.06
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	1.08	1.89
tblVehicleEF	MHD	11.74	0.98
tblVehicleEF	MHD	4.3700e-004	1.7551e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.5780e-003	0.06
tblVehicleEF	MHD	8.2200e-004	1.9575e-004
tblVehicleEF	MHD	4.1800e-004	1.6792e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	5.3330e-003	0.06
tblVehicleEF	MHD	7.5600e-004	1.7998e-004

tblVehicleEF	MHD	1.4330e-003	1.2037e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	7.1400e-004	5.5776e-004
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.36	0.08
tblVehicleEF	MHD	1.4910e-003	6.7339e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4400e-004	1.4901e-004
tblVehicleEF	MHD	1.4330e-003	1.2037e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	7.1400e-004	5.5776e-004
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.40	0.09
tblVehicleEF	MHD	0.02	5.1738e-003
tblVehicleEF	MHD	4.2290e-003	6.3499e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.24	0.35
tblVehicleEF	MHD	0.32	0.68
tblVehicleEF	MHD	5.61	1.72
tblVehicleEF	MHD	164.29	72.16
tblVehicleEF	MHD	1,105.72	1,107.78
tblVehicleEF	MHD	53.92	14.81
tblVehicleEF	MHD	0.65	0.57

tblVehicleEF	MHD	1.01	1.76
tblVehicleEF	MHD	11.70	0.97
tblVehicleEF	MHD	3.6900e-004	1.4820e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.5780e-003	0.06
tblVehicleEF	MHD	8.2200e-004	1.9575e-004
tblVehicleEF	MHD	3.5300e-004	1.4178e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	5.3330e-003	0.06
tblVehicleEF	MHD	7.5600e-004	1.7998e-004
tblVehicleEF	MHD	2.8480e-003	2.6688e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	1.6690e-003	1.6086e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	0.02	0.21
tblVehicleEF	MHD	0.35	0.08
tblVehicleEF	MHD	1.5770e-003	6.8659e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.3800e-004	1.4652e-004
tblVehicleEF	MHD	2.8480e-003	2.6688e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.6690e-003	1.6086e-003
tblVehicleEF	MHD	0.05	0.10

tblVehicleEF	MHD	0.02	0.21
tblVehicleEF	MHD	0.38	0.09
tblVehicleEF	MHD	0.02	5.8908e-003
tblVehicleEF	MHD	4.1530e-003	6.2416e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.46	0.57
tblVehicleEF	MHD	0.31	0.67
tblVehicleEF	MHD	5.90	1.82
tblVehicleEF	MHD	142.41	68.88
tblVehicleEF	MHD	1,105.72	1,107.76
tblVehicleEF	MHD	53.92	14.97
tblVehicleEF	MHD	0.60	0.56
tblVehicleEF	MHD	1.06	1.85
tblVehicleEF	MHD	11.73	0.98
tblVehicleEF	MHD	5.3200e-004	2.1323e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.5780e-003	0.06
tblVehicleEF	MHD	8.2200e-004	1.9575e-004
tblVehicleEF	MHD	5.0900e-004	2.0401e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	5.3330e-003	0.06
tblVehicleEF	MHD	7.5600e-004	1.7998e-004
tblVehicleEF	MHD	1.5800e-003	1.4225e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	7.0500e-004	5.1800e-004
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.36	0.08
tblVehicleEF	MHD	1.3710e-003	6.5509e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4300e-004	1.4813e-004
tblVehicleEF	MHD	1.5800e-003	1.4225e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	7.0500e-004	5.1800e-004
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.39	0.09
tblVehicleEF	OBUS	0.01	9.8281e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.27	0.43
tblVehicleEF	OBUS	0.73	1.52
tblVehicleEF	OBUS	6.67	3.30
tblVehicleEF	OBUS	70.21	51.97
tblVehicleEF	OBUS	1,126.32	1,610.98
tblVehicleEF	OBUS	71.08	24.56
tblVehicleEF	OBUS	0.32	0.26
tblVehicleEF	OBUS	1.10	1.20
tblVehicleEF	OBUS	1.97	0.47
tblVehicleEF	OBUS	1.1300e-004	1.0316e-003

tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.4210e-003	0.02
tblVehicleEF	OBUS	9.1200e-004	2.4731e-004
tblVehicleEF	OBUS	1.0800e-004	9.8700e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.1650e-003	0.02
tblVehicleEF	OBUS	8.3900e-004	2.2739e-004
tblVehicleEF	OBUS	2.2350e-003	3.0916e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4600e-004	1.1802e-003
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.05	0.35
tblVehicleEF	OBUS	0.41	0.16
tblVehicleEF	OBUS	6.8200e-004	4.9868e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	8.2800e-004	2.4302e-004
tblVehicleEF	OBUS	2.2350e-003	3.0916e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4600e-004	1.1802e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.05	0.35
tblVehicleEF	OBUS	0.45	0.17
tblVehicleEF	OBUS	0.01	9.8612e-003

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.41
tblVehicleEF	OBUS	0.75	1.57
tblVehicleEF	OBUS	6.11	2.97
tblVehicleEF	OBUS	73.34	52.23
tblVehicleEF	OBUS	1,126.32	1,611.07
tblVehicleEF	OBUS	71.08	24.00
tblVehicleEF	OBUS	0.33	0.26
tblVehicleEF	OBUS	1.02	1.08
tblVehicleEF	OBUS	1.92	0.45
tblVehicleEF	OBUS	9.5000e-005	8.7177e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.4210e-003	0.02
tblVehicleEF	OBUS	9.1200e-004	2.4731e-004
tblVehicleEF	OBUS	9.1000e-005	8.3405e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.1650e-003	0.02
tblVehicleEF	OBUS	8.3900e-004	2.2739e-004
tblVehicleEF	OBUS	4.3510e-003	6.6825e-003
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	2.1830e-003	3.3478e-003
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.05	0.36

tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	OBUS	7.1200e-004	5.0115e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	8.1800e-004	2.3749e-004
tblVehicleEF	OBUS	4.3510e-003	6.6825e-003
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1830e-003	3.3478e-003
tblVehicleEF	OBUS	0.07	0.11
tblVehicleEF	OBUS	0.05	0.36
tblVehicleEF	OBUS	0.42	0.16
tblVehicleEF	OBUS	0.01	9.8316e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.44
tblVehicleEF	OBUS	0.73	1.53
tblVehicleEF	OBUS	6.62	3.24
tblVehicleEF	OBUS	65.88	51.61
tblVehicleEF	OBUS	1,126.32	1,611.00
tblVehicleEF	OBUS	71.08	24.45
tblVehicleEF	OBUS	0.31	0.26
tblVehicleEF	OBUS	1.08	1.17
tblVehicleEF	OBUS	1.96	0.47
tblVehicleEF	OBUS	1.3700e-004	1.2524e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.4210e-003	0.02

tblVehicleEF	OBUS	9.1200e-004	2.4731e-004
tblVehicleEF	OBUS	1.3100e-004	1.1982e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.1650e-003	0.02
tblVehicleEF	OBUS	8.3900e-004	2.2739e-004
tblVehicleEF	OBUS	2.3980e-003	3.4748e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.5900e-004	1.1271e-003
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.05	0.38
tblVehicleEF	OBUS	0.41	0.15
tblVehicleEF	OBUS	6.4100e-004	4.9528e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	8.2700e-004	2.4194e-004
tblVehicleEF	OBUS	2.3980e-003	3.4748e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.5900e-004	1.1271e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.05	0.38
tblVehicleEF	OBUS	0.45	0.17
tblVehicleEF	SBUS	0.86	0.01
tblVehicleEF	SBUS	0.01	4.4371e-003
tblVehicleEF	SBUS	0.07	1.1456e-003
tblVehicleEF	SBUS	5.64	1.00

tblVehicleEF	SBUS	0.71	0.28
tblVehicleEF	SBUS	5.49	0.17
tblVehicleEF	SBUS	1,270.71	324.55
tblVehicleEF	SBUS	1,144.20	1,170.32
tblVehicleEF	SBUS	36.06	0.97
tblVehicleEF	SBUS	12.46	3.52
tblVehicleEF	SBUS	5.17	5.16
tblVehicleEF	SBUS	15.23	0.98
tblVehicleEF	SBUS	0.01	3.9578e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.0600e-004	1.4411e-005
tblVehicleEF	SBUS	0.01	3.7866e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.7630e-003	2.8815e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.6500e-004	1.3250e-005
tblVehicleEF	SBUS	3.0740e-003	5.7898e-005
tblVehicleEF	SBUS	0.02	2.1608e-004
tblVehicleEF	SBUS	0.68	0.08
tblVehicleEF	SBUS	1.3130e-003	2.1958e-005
tblVehicleEF	SBUS	0.12	0.09
tblVehicleEF	SBUS	0.01	1.7428e-003
tblVehicleEF	SBUS	0.28	6.0115e-003
tblVehicleEF	SBUS	0.01	3.0720e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.5600e-004	9.5621e-006
tblVehicleEF	SBUS	3.0740e-003	5.7898e-005
tblVehicleEF	SBUS	0.02	2.1608e-004
tblVehicleEF	SBUS	0.97	0.11
tblVehicleEF	SBUS	1.3130e-003	2.1958e-005
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.01	1.7428e-003
tblVehicleEF	SBUS	0.31	6.5819e-003
tblVehicleEF	SBUS	0.86	0.01
tblVehicleEF	SBUS	0.01	4.4522e-003
tblVehicleEF	SBUS	0.06	8.8875e-004
tblVehicleEF	SBUS	5.48	0.96
tblVehicleEF	SBUS	0.72	0.28
tblVehicleEF	SBUS	3.76	0.10
tblVehicleEF	SBUS	1,335.64	332.90
tblVehicleEF	SBUS	1,144.20	1,170.32
tblVehicleEF	SBUS	36.06	0.86
tblVehicleEF	SBUS	12.86	3.59
tblVehicleEF	SBUS	4.84	4.82
tblVehicleEF	SBUS	15.20	0.98
tblVehicleEF	SBUS	0.01	3.3452e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.0600e-004	1.4411e-005
tblVehicleEF	SBUS	0.01	3.2005e-003
tblVehicleEF	SBUS	0.32	0.32

tblVehicleEF	SBUS	2.7630e-003	2.8815e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.6500e-004	1.3250e-005
tblVehicleEF	SBUS	5.9210e-003	1.3114e-004
tblVehicleEF	SBUS	0.02	3.0235e-004
tblVehicleEF	SBUS	0.67	0.08
tblVehicleEF	SBUS	2.9370e-003	7.4268e-005
tblVehicleEF	SBUS	0.12	0.09
tblVehicleEF	SBUS	9.6420e-003	1.5133e-003
tblVehicleEF	SBUS	0.23	4.6553e-003
tblVehicleEF	SBUS	0.01	3.1509e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.2700e-004	8.5449e-006
tblVehicleEF	SBUS	5.9210e-003	1.3114e-004
tblVehicleEF	SBUS	0.02	3.0235e-004
tblVehicleEF	SBUS	0.96	0.11
tblVehicleEF	SBUS	2.9370e-003	7.4268e-005
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	9.6420e-003	1.5133e-003
tblVehicleEF	SBUS	0.25	5.0969e-003
tblVehicleEF	SBUS	0.86	0.01
tblVehicleEF	SBUS	0.01	4.4384e-003
tblVehicleEF	SBUS	0.07	1.1307e-003
tblVehicleEF	SBUS	5.85	1.05
tblVehicleEF	SBUS	0.71	0.28
tblVehicleEF	SBUS	5.54	0.16
tblVehicleEF	SBUS	1,181.05	313.01

tblVehicleEF	SBUS	1,144.20	1,170.32
tblVehicleEF	SBUS	36.06	0.95
tblVehicleEF	SBUS	11.91	3.42
tblVehicleEF	SBUS	5.09	5.07
tblVehicleEF	SBUS	15.23	0.98
tblVehicleEF	SBUS	0.02	4.8038e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.0600e-004	1.4411e-005
tblVehicleEF	SBUS	0.02	4.5960e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.7630e-003	2.8815e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.6500e-004	1.3250e-005
tblVehicleEF	SBUS	3.2090e-003	7.3226e-005
tblVehicleEF	SBUS	0.02	2.5411e-004
tblVehicleEF	SBUS	0.68	0.08
tblVehicleEF	SBUS	1.2980e-003	1.9839e-005
tblVehicleEF	SBUS	0.12	0.09
tblVehicleEF	SBUS	0.01	2.3232e-003
tblVehicleEF	SBUS	0.29	5.9331e-003
tblVehicleEF	SBUS	0.01	2.9630e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5600e-004	9.4415e-006
tblVehicleEF	SBUS	3.2090e-003	7.3226e-005
tblVehicleEF	SBUS	0.02	2.5411e-004

tblVehicleEF	SBUS	0.97	0.11
tblVehicleEF	SBUS	1.2980e-003	1.9839e-005
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.01	2.3232e-003
tblVehicleEF	SBUS	0.32	6.4959e-003
tblVehicleEF	UBUS	1.95	3.51
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	9.79	26.99
tblVehicleEF	UBUS	14.93	2.87
tblVehicleEF	UBUS	1,861.83	1,847.21
tblVehicleEF	UBUS	135.15	32.35
tblVehicleEF	UBUS	6.43	0.39
tblVehicleEF	UBUS	13.77	0.28
tblVehicleEF	UBUS	0.52	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.07	2.6233e-003
tblVehicleEF	UBUS	1.3790e-003	2.3460e-004
tblVehicleEF	UBUS	0.22	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4849e-003
tblVehicleEF	UBUS	0.07	2.4902e-003
tblVehicleEF	UBUS	1.2680e-003	2.1571e-004
tblVehicleEF	UBUS	8.4220e-003	2.2153e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	4.0730e-003	8.9013e-004
tblVehicleEF	UBUS	0.66	0.06
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.19	0.16

tblVehicleEF	UBUS	0.01	6.5545e-003
tblVehicleEF	UBUS	1.6230e-003	3.2018e-004
tblVehicleEF	UBUS	8.4220e-003	2.2153e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	4.0730e-003	8.9013e-004
tblVehicleEF	UBUS	2.68	3.59
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.30	0.18
tblVehicleEF	UBUS	1.95	3.51
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	9.90	26.99
tblVehicleEF	UBUS	12.23	2.29
tblVehicleEF	UBUS	1,861.83	1,847.22
tblVehicleEF	UBUS	135.15	31.36
tblVehicleEF	UBUS	5.98	0.38
tblVehicleEF	UBUS	13.65	0.26
tblVehicleEF	UBUS	0.52	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.07	2.6233e-003
tblVehicleEF	UBUS	1.3790e-003	2.3460e-004
tblVehicleEF	UBUS	0.22	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4849e-003
tblVehicleEF	UBUS	0.07	2.4902e-003
tblVehicleEF	UBUS	1.2680e-003	2.1571e-004
tblVehicleEF	UBUS	0.02	4.5597e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	9.6640e-003	2.5650e-003

tblVehicleEF	UBUS	0.67	0.06
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.06	0.14
tblVehicleEF	UBUS	0.01	6.5546e-003
tblVehicleEF	UBUS	1.5760e-003	3.1037e-004
tblVehicleEF	UBUS	0.02	4.5597e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	9.6640e-003	2.5650e-003
tblVehicleEF	UBUS	2.69	3.59
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.16	0.16
tblVehicleEF	UBUS	1.95	3.51
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	9.80	26.99
tblVehicleEF	UBUS	14.43	2.71
tblVehicleEF	UBUS	1,861.83	1,847.22
tblVehicleEF	UBUS	135.15	32.09
tblVehicleEF	UBUS	6.31	0.39
tblVehicleEF	UBUS	13.74	0.28
tblVehicleEF	UBUS	0.52	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.07	2.6233e-003
tblVehicleEF	UBUS	1.3790e-003	2.3460e-004
tblVehicleEF	UBUS	0.22	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4849e-003
tblVehicleEF	UBUS	0.07	2.4902e-003
tblVehicleEF	UBUS	1.2680e-003	2.1571e-004

tblVehicleEF	UBUS	9.6690e-003	2.4056e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2700e-003	8.2079e-004
tblVehicleEF	UBUS	0.66	0.06
tblVehicleEF	UBUS	0.03	0.11
tblVehicleEF	UBUS	1.17	0.16
tblVehicleEF	UBUS	0.01	6.5546e-003
tblVehicleEF	UBUS	1.6140e-003	3.1758e-004
tblVehicleEF	UBUS	9.6690e-003	2.4056e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2700e-003	8.2079e-004
tblVehicleEF	UBUS	2.68	3.59
tblVehicleEF	UBUS	0.03	0.11
tblVehicleEF	UBUS	1.28	0.18
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.56
tblVehicleTrips	ST_TR	1.68	1.75

tblVehicleTrips	SU_TR	0.68	3.93
tblVehicleTrips	SU_TR	1.68	1.75
tblVehicleTrips	WD_TR	6.97	3.90
tblVehicleTrips	WD_TR	1.68	1.75
tblWater	IndoorWaterUseRate	319,999,125.00	0.00
tblWater	IndoorWaterUseRate	546,131,562.50	213,297,953.39

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					
2021	0.0000	0.0000	0.0000	0.0000	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					
2021	0.0000	0.0000	0.0000	0.0000	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)
		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	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Energy	0.2683	2.4389	2.0487	0.0146		0.1854	0.1854		0.1854	0.1854	0.0000	7,291.3285	7,291.3285	0.3120	0.1027	7,329.7294
Mobile	4.2478	3.7309	39.6288	0.1065	11.6924	0.0592	11.7516	3.1040	0.0545	3.1585	0.0000	9,789.0269	9,789.0269	0.3534	0.0000	9,797.8620
Offroad	0.3741	4.2324	2.1188	8.6800e-003		0.1429	0.1429		0.1315	0.1315	0.0000	762.6084	762.6084	0.2466	0.0000	768.7745
Waste						0.0000	0.0000		0.0000	0.0000	798.9400	0.0000	798.9400	47.2160	0.0000	1,979.3399
Water						0.0000	0.0000		0.0000	0.0000	67.6696	648.7898	716.4594	6.9869	0.1717	942.2885
Total	**24.3373**	**10.4030**	**43.8836**	**0.1298**	**11.6924**	**0.3877**	**12.0801**	**3.1040**	**0.3717**	**3.4757**	**866.6096**	**18,491.9227**	**19,358.5322**	**55.1153**	**0.2744**	**20,818.1746**

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	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Energy	0.2263	2.0569	1.7278	0.0123		0.1563	0.1563		0.1563	0.1563	0.0000	6,600.8578	6,600.8578	0.2885	0.0919	6,635.4473
Mobile	4.2478	3.7309	39.6288	0.1065	11.6924	0.0592	11.7516	3.1040	0.0545	3.1585	0.0000	9,789.0269	9,789.0269	0.3534	0.0000	9,797.8620
Offroad	0.3741	4.2324	2.1188	8.6800e-003		0.1429	0.1429		0.1315	0.1315	0.0000	762.6084	762.6084	0.2466	0.0000	768.7745
Waste						0.0000	0.0000		0.0000	0.0000	199.7350	0.0000	199.7350	11.8040	0.0000	494.8350
Water						0.0000	0.0000		0.0000	0.0000	54.1357	519.0318	573.1675	5.5895	0.1373	753.8308
Total	**24.2953**	**10.0209**	**43.5627**	**0.1275**	**11.6924**	**0.3587**	**12.0511**	**3.1040**	**0.3426**	**3.4466**	**253.8707**	**17,671.6940**	**17,925.5646**	**18.2825**	**0.2292**	**18,450.9300**

	ROG	NOx	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	**0.17**	**3.67**	**0.73**	**1.76**	**0.00**	**7.49**	**0.24**	**0.00**	**7.81**	**0.84**	**70.71**	**4.44**	**7.40**	**66.83**	**16.46**	**11.37**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/4/2021	1/3/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 108.81

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	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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	4.2478	3.7309	39.6288	0.1065	11.6924	0.0592	11.7516	3.1040	0.0545	3.1585	0.0000	9,789.0269	9,789.0269	0.3534	0.0000	9,797.8620
Unmitigated	4.2478	3.7309	39.6288	0.1065	11.6924	0.0592	11.7516	3.1040	0.0545	3.1585	0.0000	9,789.0269	9,789.0269	0.3534	0.0000	9,797.8620

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	5,396.05	2,164.37	5438.26	17,083,953	17,083,953
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	4,134.06	4,134.06	4134.06	14,295,596	14,295,596
Total	9,530.12	6,298.44	9,572.32	31,379,549	31,379,549

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 Light Industry	9.50	7.30	7.30	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
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	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.620600	0.041900	0.202700	0.134800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.620600	0.041900	0.202700	0.134800	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

Exceed Title 24

Hesperia Commerce Center II (Operations - Passenger Cars) - San Bernardino-Mojave Desert County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4,361.7263	4,361.7263	0.2456	0.0508	4,383.0099
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,636.3088	4,636.3088	0.2611	0.0540	4,658.9322
NaturalGas Mitigated	0.2263	2.0569	1.7278	0.0123		0.1563	0.1563		0.1563	0.1563	0.0000	2,239.1314	2,239.1314	0.0429	0.0411	2,252.4375
NaturalGas Unmitigated	0.2683	2.4389	2.0487	0.0146		0.1854	0.1854		0.1854	0.1854	0.0000	2,655.0197	2,655.0197	0.0509	0.0487	2,670.7972

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 Light Industry	4.4959e+007	0.2424	2.2039	1.8513	0.0132		0.1675	0.1675		0.1675	0.1675	0.0000	2,399.1858	2,399.1858	0.0460	0.0440	2,413.4430
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
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	4.79415e+006	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	255.8339	255.8339	4.9000e-003	4.6900e-003	257.3542
Total		**0.2683**	**2.4389**	**2.0487**	**0.0146**		**0.1854**	**0.1854**		**0.1854**	**0.1854**	**0.0000**	**2,655.0197**	**2,655.0197**	**0.0509**	**0.0487**	**2,670.7972**

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					
General Light Industry	3.85826e+007	0.2080	1.8913	1.5887	0.0114		0.1437	0.1437		0.1437	0.1437	0.0000	2,058.9135	2,058.9135	0.0395	0.0378	2,071.1486
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
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	3.37716e+006	0.0182	0.1656	0.1391	9.9000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	180.2179	180.2179	3.4500e-003	3.3000e-003	181.2889
Total		**0.2263**	**2.0569**	**1.7278**	**0.0123**		**0.1563**	**0.1563**		**0.1563**	**0.1563**	**0.0000**	**2,239.1314**	**2,239.1314**	**0.0429**	**0.0411**	**2,252.4375**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.40454e+007	3,281.0011	0.1848	0.0382	3,297.0111
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	228340	53.3402	3.0000e-003	6.2000e-004	53.6005
Unrefrigerated Warehouse-No Rail	5.57349e+006	1,301.9675	0.0733	0.0152	1,308.3206
Total		**4,636.3088**	**0.2611**	**0.0540**	**4,658.9322**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.31321e+007	3,067.6552	0.1727	0.0357	3,082.6242
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	228340	53.3402	3.0000e-003	6.2000e-004	53.6005
Unrefrigerated Warehouse-No Rail	5.31135e+006	1,240.7309	0.0699	0.0145	1,246.7852
Total		**4,361.7263**	**0.2456**	**0.0508**	**4,383.0099**

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	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Unmitigated	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803

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	4.5048					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.9342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1500e-003	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Total	**19.4471**	**8.0000e-004**	**0.0873**	**1.0000e-005**		**3.1000e-004**	**3.1000e-004**		**3.1000e-004**	**3.1000e-004**	**0.0000**	**0.1691**	**0.1691**	**4.5000e-004**	**0.0000**	**0.1803**

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	4.5048					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.9342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1500e-003	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Total	**19.4471**	**8.0000e-004**	**0.0873**	**1.0000e-005**		**3.1000e-004**	**3.1000e-004**		**3.1000e-004**	**3.1000e-004**	**0.0000**	**0.1691**	**0.1691**	**4.5000e-004**	**0.0000**	**0.1803**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	573.1675	5.5895	0.1373	753.8308
Unmitigated	716.4594	6.9869	0.1717	942.2885

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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	213.298 / 0	716.4594	6.9869	0.1717	942.2885
Total		**716.4594**	**6.9869**	**0.1717**	**942.2885**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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	170.638 / 0	573.1675	5.5895	0.1373	753.8308
Total		**573.1675**	**5.5895**	**0.1373**	**753.8308**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	199.7350	11.8040	0.0000	494.8350
Unmitigated	798.9400	47.2160	0.0000	1,979.3399

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	1715.89	348.3102	20.5845	0.0000	862.9237
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2219.95	450.6298	26.6315	0.0000	1,116.4162
Total		**798.9400**	**47.2160**	**0.0000**	**1,979.3399**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	428.973	87.0775	5.1461	0.0000	215.7309
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	554.987	112.6575	6.6579	0.0000	279.1041
Total		**199.7350**	**11.8040**	**0.0000**	**494.8350**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	15	4.00	365	200	0.37	CNG

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.3741	4.2324	2.1188	8.6800e-003		0.1429	0.1429		0.1315	0.1315	0.0000	762.6084	762.6084	0.2466	0.0000	768.7745
Total	**0.3741**	**4.2324**	**2.1188**	**8.6800e-003**		**0.1429**	**0.1429**		**0.1315**	**0.1315**	**0.0000**	**762.6084**	**762.6084**	**0.2466**	**0.0000**	**768.7745**

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

This page intentionally left blank

APPENDIX 4.3:

CALEEMOD ANNUAL OPERATIONAL EMISSIONS MODEL OUTPUTS (TRUCKS)

Hesperia Commerce Center II (Operations - Trucks)

San Bernardino-Mojave Desert County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1,383.78	1000sqft	31.77	1,383,781.00	0
Unrefrigerated Warehouse-No Rail	2,361.65	1000sqft	54.22	2,361,648.00	0
Other Asphalt Surfaces	3,493.87	1000sqft	80.21	3,493,865.00	0
Other Non-Asphalt Surfaces	594.00	1000sqft	13.64	593,998.00	0
Parking Lot	1,631.00	Space	14.96	652,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Estimated intensity factor for total energy delivered by SCE based on the total CO2 emission factors and SB100 requirements for year 2021

Land Use - Total Project Area is 194.80 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the Hesperia Commerce Center II Traffic Impact Analysis by Urban Crossroads, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use -

Water And Wastewater - As per the City of Hesperia General Plan Evaluation Water Supply Evalution (2009), the water demand fator for industrial land uses were 3,000 gallons per day per acre (gpd/acre).

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the TIA.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	0.00
tblFleetMix	HHD	0.06	0.44
tblFleetMix	HHD	0.06	0.79
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00

tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.37
tblFleetMix	LHD1	0.02	0.11
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MHD	0.02	0.18
tblFleetMix	MHD	0.02	0.11
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblLandUse	LandUseSquareFeet	1,383,780.00	1,383,781.00
tblLandUse	LandUseSquareFeet	2,361,650.00	2,361,648.00
tblLandUse	LandUseSquareFeet	3,493,860.00	3,493,865.00
tblLandUse	LotAcreage	14.68	14.96
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00

tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	15.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	515
tblVehicleEF	HHD	1.24	0.03
tblVehicleEF	HHD	0.04	2.7731e-003
tblVehicleEF	HHD	0.11	1.1831e-007
tblVehicleEF	HHD	3.46	9.63
tblVehicleEF	HHD	0.58	0.28
tblVehicleEF	HHD	1.92	8.3347e-004
tblVehicleEF	HHD	6,983.95	1,752.04
tblVehicleEF	HHD	1,493.95	1,319.40
tblVehicleEF	HHD	5.71	0.01
tblVehicleEF	HHD	28.07	8.89
tblVehicleEF	HHD	2.87	2.62
tblVehicleEF	HHD	20.20	1.95
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.5000e-005	4.7619e-007
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8820e-003	8.9828e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.0000e-005	4.3784e-007

tblVehicleEF	HHD	9.3000e-005	2.3640e-006
tblVehicleEF	HHD	3.4490e-003	6.9327e-005
tblVehicleEF	HHD	0.89	0.73
tblVehicleEF	HHD	5.7000e-005	1.2306e-006
tblVehicleEF	HHD	0.09	0.05
tblVehicleEF	HHD	2.4200e-004	3.6754e-004
tblVehicleEF	HHD	0.06	6.0841e-007
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.9000e-005	1.1607e-007
tblVehicleEF	HHD	9.3000e-005	2.3640e-006
tblVehicleEF	HHD	3.4490e-003	6.9327e-005
tblVehicleEF	HHD	1.02	0.83
tblVehicleEF	HHD	5.7000e-005	1.2306e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.4200e-004	3.6754e-004
tblVehicleEF	HHD	0.07	6.6614e-007
tblVehicleEF	HHD	1.17	0.04
tblVehicleEF	HHD	0.04	2.7743e-003
tblVehicleEF	HHD	0.11	1.1083e-007
tblVehicleEF	HHD	2.52	9.45
tblVehicleEF	HHD	0.58	0.28
tblVehicleEF	HHD	1.80	7.6782e-004
tblVehicleEF	HHD	7,395.94	1,740.61
tblVehicleEF	HHD	1,493.95	1,319.40
tblVehicleEF	HHD	5.71	0.01
tblVehicleEF	HHD	28.97	8.56

tblVehicleEF	HHD	2.70	2.46
tblVehicleEF	HHD	20.19	1.95
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.5000e-005	4.7619e-007
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8820e-003	8.9828e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.0000e-005	4.3784e-007
tblVehicleEF	HHD	1.8400e-004	5.6532e-006
tblVehicleEF	HHD	3.9090e-003	8.7762e-005
tblVehicleEF	HHD	0.84	0.76
tblVehicleEF	HHD	1.2900e-004	4.0334e-006
tblVehicleEF	HHD	0.09	0.05
tblVehicleEF	HHD	2.4800e-004	3.8408e-004
tblVehicleEF	HHD	0.06	5.7228e-007
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.7000e-005	1.1504e-007
tblVehicleEF	HHD	1.8400e-004	5.6532e-006
tblVehicleEF	HHD	3.9090e-003	8.7762e-005
tblVehicleEF	HHD	0.97	0.87
tblVehicleEF	HHD	1.2900e-004	4.0334e-006
tblVehicleEF	HHD	0.13	0.06

tblVehicleEF	HHD	2.4800e-004	3.8408e-004
tblVehicleEF	HHD	0.06	6.2657e-007
tblVehicleEF	HHD	1.34	0.03
tblVehicleEF	HHD	0.04	2.4809e-003
tblVehicleEF	HHD	0.11	1.1631e-007
tblVehicleEF	HHD	4.76	9.88
tblVehicleEF	HHD	0.58	0.28
tblVehicleEF	HHD	1.89	8.1027e-004
tblVehicleEF	HHD	6,415.00	1,767.74
tblVehicleEF	HHD	1,493.95	1,319.16
tblVehicleEF	HHD	5.71	0.01
tblVehicleEF	HHD	26.84	9.34
tblVehicleEF	HHD	2.83	2.58
tblVehicleEF	HHD	20.20	1.95
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.5000e-005	4.7619e-007
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8820e-003	8.9822e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	5.0000e-005	4.3784e-007
tblVehicleEF	HHD	9.4000e-005	2.7344e-006
tblVehicleEF	HHD	3.7830e-003	8.4410e-005
tblVehicleEF	HHD	0.96	0.68

tblVehicleEF	HHD	5.6000e-005	1.1093e-006
tblVehicleEF	HHD	0.09	0.05
tblVehicleEF	HHD	2.5900e-004	3.8293e-004
tblVehicleEF	HHD	0.06	5.9854e-007
tblVehicleEF	HHD	0.06	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.9000e-005	1.1571e-007
tblVehicleEF	HHD	9.4000e-005	2.7344e-006
tblVehicleEF	HHD	3.7830e-003	8.4410e-005
tblVehicleEF	HHD	1.10	0.78
tblVehicleEF	HHD	5.6000e-005	1.1093e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.5900e-004	3.8293e-004
tblVehicleEF	HHD	0.07	6.5533e-007
tblVehicleEF	LDA	4.6640e-003	2.6749e-003
tblVehicleEF	LDA	6.4640e-003	0.06
tblVehicleEF	LDA	0.62	0.67
tblVehicleEF	LDA	1.32	2.30
tblVehicleEF	LDA	261.85	266.85
tblVehicleEF	LDA	59.28	55.75
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.09	0.21
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7130e-003	1.4183e-003
tblVehicleEF	LDA	2.3020e-003	1.9604e-003
tblVehicleEF	LDA	0.02	0.02

tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5790e-003	1.3072e-003
tblVehicleEF	LDA	2.1170e-003	1.8026e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	2.6230e-003	2.6339e-003
tblVehicleEF	LDA	6.1500e-004	5.5041e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.10	0.29
tblVehicleEF	LDA	5.3170e-003	3.1454e-003
tblVehicleEF	LDA	5.3900e-003	0.05
tblVehicleEF	LDA	0.76	0.85
tblVehicleEF	LDA	1.10	1.87
tblVehicleEF	LDA	286.52	295.36
tblVehicleEF	LDA	59.28	54.91
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.08	0.19
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003

tblVehicleEF	LDA	1.7130e-003	1.4183e-003
tblVehicleEF	LDA	2.3020e-003	1.9604e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5790e-003	1.3072e-003
tblVehicleEF	LDA	2.1170e-003	1.8026e-003
tblVehicleEF	LDA	0.10	0.16
tblVehicleEF	LDA	0.13	0.14
tblVehicleEF	LDA	0.08	0.13
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.8710e-003	2.9154e-003
tblVehicleEF	LDA	6.1100e-004	5.4218e-004
tblVehicleEF	LDA	0.10	0.16
tblVehicleEF	LDA	0.13	0.14
tblVehicleEF	LDA	0.08	0.13
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	4.5320e-003	2.5905e-003
tblVehicleEF	LDA	6.4200e-003	0.06
tblVehicleEF	LDA	0.58	0.62
tblVehicleEF	LDA	1.30	2.20
tblVehicleEF	LDA	256.02	258.48
tblVehicleEF	LDA	59.28	55.58
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	0.09	0.20
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7130e-003	1.4183e-003
tblVehicleEF	LDA	2.3020e-003	1.9604e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5790e-003	1.3072e-003
tblVehicleEF	LDA	2.1170e-003	1.8026e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	2.5640e-003	2.5512e-003
tblVehicleEF	LDA	6.1500e-004	5.4871e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.09	0.28
tblVehicleEF	LDT1	0.02	7.3485e-003
tblVehicleEF	LDT1	0.02	0.10
tblVehicleEF	LDT1	1.71	1.50
tblVehicleEF	LDT1	4.02	2.62

tblVehicleEF	LDT1	323.73	316.00
tblVehicleEF	LDT1	72.77	67.91
tblVehicleEF	LDT1	0.18	0.15
tblVehicleEF	LDT1	0.24	0.33
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.8630e-003	2.1814e-003
tblVehicleEF	LDT1	3.8930e-003	3.1178e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.6370e-003	2.0076e-003
tblVehicleEF	LDT1	3.5800e-003	2.8671e-003
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.36	0.29
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.21	0.98
tblVehicleEF	LDT1	0.29	0.50
tblVehicleEF	LDT1	3.2600e-003	3.1199e-003
tblVehicleEF	LDT1	7.9900e-004	6.7045e-004
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.36	0.29
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.21	0.98
tblVehicleEF	LDT1	0.31	0.55
tblVehicleEF	LDT1	0.02	8.5438e-003

tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	2.05	1.86
tblVehicleEF	LDT1	3.30	2.13
tblVehicleEF	LDT1	352.65	345.58
tblVehicleEF	LDT1	72.77	66.80
tblVehicleEF	LDT1	0.16	0.14
tblVehicleEF	LDT1	0.22	0.31
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.8630e-003	2.1814e-003
tblVehicleEF	LDT1	3.8930e-003	3.1178e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.6370e-003	2.0076e-003
tblVehicleEF	LDT1	3.5800e-003	2.8671e-003
tblVehicleEF	LDT1	0.40	0.49
tblVehicleEF	LDT1	0.44	0.39
tblVehicleEF	LDT1	0.29	0.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	1.00
tblVehicleEF	LDT1	0.24	0.41
tblVehicleEF	LDT1	3.5540e-003	3.4119e-003
tblVehicleEF	LDT1	7.8600e-004	6.5955e-004
tblVehicleEF	LDT1	0.40	0.49
tblVehicleEF	LDT1	0.44	0.39
tblVehicleEF	LDT1	0.29	0.37
tblVehicleEF	LDT1	0.06	0.06

tblVehicleEF	LDT1	0.21	1.00
tblVehicleEF	LDT1	0.26	0.44
tblVehicleEF	LDT1	0.01	7.1250e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.62	1.39
tblVehicleEF	LDT1	3.95	2.51
tblVehicleEF	LDT1	316.91	307.32
tblVehicleEF	LDT1	72.77	67.68
tblVehicleEF	LDT1	0.17	0.14
tblVehicleEF	LDT1	0.24	0.32
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.8630e-003	2.1814e-003
tblVehicleEF	LDT1	3.8930e-003	3.1178e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.6370e-003	2.0076e-003
tblVehicleEF	LDT1	3.5800e-003	2.8671e-003
tblVehicleEF	LDT1	0.20	0.24
tblVehicleEF	LDT1	0.41	0.34
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.25	1.16
tblVehicleEF	LDT1	0.28	0.49
tblVehicleEF	LDT1	3.1900e-003	3.0341e-003
tblVehicleEF	LDT1	7.9800e-004	6.6824e-004
tblVehicleEF	LDT1	0.20	0.24

tblVehicleEF	LDT1	0.41	0.34
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.25	1.16
tblVehicleEF	LDT1	0.31	0.53
tblVehicleEF	LDT2	6.9330e-003	4.6236e-003
tblVehicleEF	LDT2	9.2890e-003	0.08
tblVehicleEF	LDT2	0.85	1.02
tblVehicleEF	LDT2	1.85	3.00
tblVehicleEF	LDT2	363.70	341.92
tblVehicleEF	LDT2	81.97	73.81
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.16	0.36
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.7370e-003	1.4805e-003
tblVehicleEF	LDT2	2.4180e-003	2.0856e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.5980e-003	1.3625e-003
tblVehicleEF	LDT2	2.2230e-003	1.9178e-003
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.13	0.41

tblVehicleEF	LDT2	3.6440e-003	3.3752e-003
tblVehicleEF	LDT2	8.5100e-004	7.2871e-004
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.14	0.45
tblVehicleEF	LDT2	7.8730e-003	5.4059e-003
tblVehicleEF	LDT2	7.7350e-003	0.07
tblVehicleEF	LDT2	1.04	1.28
tblVehicleEF	LDT2	1.53	2.43
tblVehicleEF	LDT2	397.09	371.16
tblVehicleEF	LDT2	81.97	72.66
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.15	0.33
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.7370e-003	1.4805e-003
tblVehicleEF	LDT2	2.4180e-003	2.0856e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.5980e-003	1.3625e-003
tblVehicleEF	LDT2	2.2230e-003	1.9178e-003
tblVehicleEF	LDT2	0.14	0.26
tblVehicleEF	LDT2	0.16	0.21
tblVehicleEF	LDT2	0.12	0.22

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	3.9810e-003	3.6638e-003
tblVehicleEF	LDT2	8.4600e-004	7.1735e-004
tblVehicleEF	LDT2	0.14	0.26
tblVehicleEF	LDT2	0.16	0.21
tblVehicleEF	LDT2	0.12	0.22
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.55
tblVehicleEF	LDT2	0.11	0.36
tblVehicleEF	LDT2	6.7430e-003	4.4829e-003
tblVehicleEF	LDT2	9.2200e-003	0.08
tblVehicleEF	LDT2	0.81	0.94
tblVehicleEF	LDT2	1.82	2.87
tblVehicleEF	LDT2	355.82	333.34
tblVehicleEF	LDT2	81.97	73.58
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.16	0.35
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.7370e-003	1.4805e-003
tblVehicleEF	LDT2	2.4180e-003	2.0856e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.5980e-003	1.3625e-003
tblVehicleEF	LDT2	2.2230e-003	1.9178e-003

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.15	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.64
tblVehicleEF	LDT2	0.12	0.40
tblVehicleEF	LDT2	3.5650e-003	3.2904e-003
tblVehicleEF	LDT2	8.5100e-004	7.2645e-004
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.15	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.64
tblVehicleEF	LDT2	0.14	0.44
tblVehicleEF	LHD1	5.4860e-003	4.7002e-003
tblVehicleEF	LHD1	0.01	7.6648e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.16	1.15
tblVehicleEF	LHD1	2.77	1.07
tblVehicleEF	LHD1	9.23	9.52
tblVehicleEF	LHD1	614.92	651.43
tblVehicleEF	LHD1	30.92	10.46
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.26	2.05
tblVehicleEF	LHD1	1.02	0.30
tblVehicleEF	LHD1	9.6600e-004	1.0218e-003

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0070e-003	2.7998e-004
tblVehicleEF	LHD1	9.2400e-004	9.7761e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5280e-003	2.5167e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2600e-004	2.5743e-004
tblVehicleEF	LHD1	3.7970e-003	3.4939e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8480e-003	1.5523e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.35	0.67
tblVehicleEF	LHD1	0.29	0.08
tblVehicleEF	LHD1	9.2000e-005	9.2012e-005
tblVehicleEF	LHD1	6.0360e-003	6.3337e-003
tblVehicleEF	LHD1	3.6200e-004	1.0351e-004
tblVehicleEF	LHD1	3.7970e-003	3.4939e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8480e-003	1.5523e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.35	0.67
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.4860e-003	4.7187e-003

tblVehicleEF	LHD1	0.01	7.8854e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.18	1.17
tblVehicleEF	LHD1	2.58	0.99
tblVehicleEF	LHD1	9.23	9.52
tblVehicleEF	LHD1	614.92	651.48
tblVehicleEF	LHD1	30.92	10.31
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.12	1.92
tblVehicleEF	LHD1	0.97	0.29
tblVehicleEF	LHD1	9.6600e-004	1.0218e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0070e-003	2.7998e-004
tblVehicleEF	LHD1	9.2400e-004	9.7761e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5280e-003	2.5167e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2600e-004	2.5743e-004
tblVehicleEF	LHD1	7.5090e-003	7.6478e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.2150e-003	4.3187e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.35	0.68

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.2012e-005
tblVehicleEF	LHD1	6.0370e-003	6.3342e-003
tblVehicleEF	LHD1	3.5800e-004	1.0204e-004
tblVehicleEF	LHD1	7.5090e-003	7.6478e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.2150e-003	4.3187e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.35	0.68
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.4860e-003	4.7053e-003
tblVehicleEF	LHD1	0.01	7.6945e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.16	1.15
tblVehicleEF	LHD1	2.72	1.04
tblVehicleEF	LHD1	9.23	9.52
tblVehicleEF	LHD1	614.92	651.44
tblVehicleEF	LHD1	30.92	10.41
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.22	2.02
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.6600e-004	1.0218e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01

tblVehicleEF	LHD1	1.0070e-003	2.7998e-004
tblVehicleEF	LHD1	9.2400e-004	9.7761e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5280e-003	2.5167e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2600e-004	2.5743e-004
tblVehicleEF	LHD1	4.1760e-003	4.1507e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8200e-003	1.4654e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.38	0.72
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.2000e-005	9.2012e-005
tblVehicleEF	LHD1	6.0360e-003	6.3337e-003
tblVehicleEF	LHD1	3.6100e-004	1.0302e-004
tblVehicleEF	LHD1	4.1760e-003	4.1507e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8200e-003	1.4654e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.38	0.72
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	3.8190e-003	2.8844e-003
tblVehicleEF	LHD2	5.2410e-003	4.5860e-003
tblVehicleEF	LHD2	9.1660e-003	8.8630e-003
tblVehicleEF	LHD2	0.12	0.13

tblVehicleEF	LHD2	0.55	0.69
tblVehicleEF	LHD2	1.29	0.55
tblVehicleEF	LHD2	14.32	15.17
tblVehicleEF	LHD2	614.63	635.50
tblVehicleEF	LHD2	24.89	6.65
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.69	2.20
tblVehicleEF	LHD2	0.56	0.17
tblVehicleEF	LHD2	1.3030e-003	1.5156e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.2500e-004	1.1847e-004
tblVehicleEF	LHD2	1.2470e-003	1.4501e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6810e-003	2.7391e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9100e-004	1.0893e-004
tblVehicleEF	LHD2	1.4000e-003	1.4389e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.3800e-004	6.7034e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.27
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4471e-004
tblVehicleEF	LHD2	5.9810e-003	6.1158e-003

tblVehicleEF	LHD2	2.7300e-004	6.5763e-005
tblVehicleEF	LHD2	1.4000e-003	1.4389e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.3800e-004	6.7034e-004
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.27
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	3.8190e-003	2.8953e-003
tblVehicleEF	LHD2	5.3190e-003	4.6415e-003
tblVehicleEF	LHD2	8.7380e-003	8.3742e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.70
tblVehicleEF	LHD2	1.21	0.51
tblVehicleEF	LHD2	14.32	15.17
tblVehicleEF	LHD2	614.63	635.52
tblVehicleEF	LHD2	24.89	6.57
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.59	2.07
tblVehicleEF	LHD2	0.54	0.16
tblVehicleEF	LHD2	1.3030e-003	1.5156e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.2500e-004	1.1847e-004
tblVehicleEF	LHD2	1.2470e-003	1.4501e-003
tblVehicleEF	LHD2	0.04	0.04

tblVehicleEF	LHD2	2.6810e-003	2.7391e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9100e-004	1.0893e-004
tblVehicleEF	LHD2	2.7070e-003	3.1227e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.6130e-003	1.8398e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4471e-004
tblVehicleEF	LHD2	5.9810e-003	6.1159e-003
tblVehicleEF	LHD2	2.7100e-004	6.5012e-005
tblVehicleEF	LHD2	2.7070e-003	3.1227e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.6130e-003	1.8398e-003
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	LHD2	3.8190e-003	2.8873e-003
tblVehicleEF	LHD2	5.2490e-003	4.5947e-003
tblVehicleEF	LHD2	9.0820e-003	8.7354e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.69
tblVehicleEF	LHD2	1.27	0.54
tblVehicleEF	LHD2	14.32	15.17

tblVehicleEF	LHD2	614.63	635.51
tblVehicleEF	LHD2	24.89	6.62
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.67	2.17
tblVehicleEF	LHD2	0.55	0.17
tblVehicleEF	LHD2	1.3030e-003	1.5156e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.2500e-004	1.1847e-004
tblVehicleEF	LHD2	1.2470e-003	1.4501e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6810e-003	2.7391e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9100e-004	1.0893e-004
tblVehicleEF	LHD2	1.4600e-003	1.6416e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	6.2170e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.29
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4471e-004
tblVehicleEF	LHD2	5.9810e-003	6.1158e-003
tblVehicleEF	LHD2	2.7200e-004	6.5519e-005
tblVehicleEF	LHD2	1.4600e-003	1.6416e-003
tblVehicleEF	LHD2	0.05	0.05

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	6.2170e-004
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.29
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.16	0.27
tblVehicleEF	MCY	21.02	22.01
tblVehicleEF	MCY	9.91	8.98
tblVehicleEF	MCY	167.12	210.64
tblVehicleEF	MCY	46.87	62.81
tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.8190e-003	1.7184e-003
tblVehicleEF	MCY	3.7460e-003	3.2085e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.7050e-003	1.6112e-003
tblVehicleEF	MCY	3.5370e-003	3.0299e-003
tblVehicleEF	MCY	1.45	1.46
tblVehicleEF	MCY	0.85	0.88
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	2.26	2.21
tblVehicleEF	MCY	0.50	2.24
tblVehicleEF	MCY	2.17	1.99

tblVehicleEF	MCY	2.0790e-003	2.0845e-003
tblVehicleEF	MCY	6.9500e-004	6.2156e-004
tblVehicleEF	MCY	1.45	1.46
tblVehicleEF	MCY	0.85	0.88
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	2.76	2.69
tblVehicleEF	MCY	0.50	2.24
tblVehicleEF	MCY	2.37	2.16
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	21.14	22.21
tblVehicleEF	MCY	9.06	8.04
tblVehicleEF	MCY	167.12	210.71
tblVehicleEF	MCY	46.87	60.21
tblVehicleEF	MCY	0.99	1.00
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.8190e-003	1.7184e-003
tblVehicleEF	MCY	3.7460e-003	3.2085e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.7050e-003	1.6112e-003
tblVehicleEF	MCY	3.5370e-003	3.0299e-003
tblVehicleEF	MCY	3.14	3.54
tblVehicleEF	MCY	1.28	1.46
tblVehicleEF	MCY	2.14	2.53

tblVehicleEF	MCY	2.19	2.14
tblVehicleEF	MCY	0.50	2.25
tblVehicleEF	MCY	1.87	1.65
tblVehicleEF	MCY	2.0790e-003	2.0851e-003
tblVehicleEF	MCY	6.7100e-004	5.9584e-004
tblVehicleEF	MCY	3.14	3.54
tblVehicleEF	MCY	1.28	1.46
tblVehicleEF	MCY	2.14	2.53
tblVehicleEF	MCY	2.69	2.61
tblVehicleEF	MCY	0.50	2.25
tblVehicleEF	MCY	2.03	1.80
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.25
tblVehicleEF	MCY	20.06	20.78
tblVehicleEF	MCY	9.53	8.40
tblVehicleEF	MCY	167.12	208.52
tblVehicleEF	MCY	46.87	61.47
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.8190e-003	1.7184e-003
tblVehicleEF	MCY	3.7460e-003	3.2085e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.7050e-003	1.6112e-003
tblVehicleEF	MCY	3.5370e-003	3.0299e-003

tblVehicleEF	MCY	1.71	1.84
tblVehicleEF	MCY	1.14	1.19
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	2.22	2.16
tblVehicleEF	MCY	0.57	2.54
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.0630e-003	2.0635e-003
tblVehicleEF	MCY	6.8600e-004	6.0833e-004
tblVehicleEF	MCY	1.71	1.84
tblVehicleEF	MCY	1.14	1.19
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	2.71	2.63
tblVehicleEF	MCY	0.57	2.54
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.7807e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.55	1.37
tblVehicleEF	MDV	3.59	3.68
tblVehicleEF	MDV	498.66	425.57
tblVehicleEF	MDV	110.76	90.69
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.36	0.44
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8680e-003	1.6562e-003
tblVehicleEF	MDV	2.5890e-003	2.2357e-003
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.5301e-003
tblVehicleEF	MDV	2.3820e-003	2.0580e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.56
tblVehicleEF	MDV	0.28	0.52
tblVehicleEF	MDV	5.0000e-003	4.1982e-003
tblVehicleEF	MDV	1.1710e-003	8.9536e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.56
tblVehicleEF	MDV	0.31	0.57
tblVehicleEF	MDV	0.02	7.8195e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.87	1.69
tblVehicleEF	MDV	2.99	2.99
tblVehicleEF	MDV	542.90	456.91
tblVehicleEF	MDV	110.76	89.27
tblVehicleEF	MDV	0.18	0.14
tblVehicleEF	MDV	0.33	0.41
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003

tblVehicleEF	MDV	1.8680e-003	1.6562e-003
tblVehicleEF	MDV	2.5890e-003	2.2357e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.5301e-003
tblVehicleEF	MDV	2.3820e-003	2.0580e-003
tblVehicleEF	MDV	0.21	0.29
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.18	0.26
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.11	0.57
tblVehicleEF	MDV	0.24	0.43
tblVehicleEF	MDV	5.4470e-003	4.5076e-003
tblVehicleEF	MDV	1.1600e-003	8.8141e-004
tblVehicleEF	MDV	0.21	0.29
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.18	0.26
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.11	0.57
tblVehicleEF	MDV	0.26	0.47
tblVehicleEF	MDV	0.01	6.5501e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.47	1.27
tblVehicleEF	MDV	3.53	3.52
tblVehicleEF	MDV	488.33	416.35
tblVehicleEF	MDV	110.76	90.40
tblVehicleEF	MDV	0.19	0.15

tblVehicleEF	MDV	0.35	0.43
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8680e-003	1.6562e-003
tblVehicleEF	MDV	2.5890e-003	2.2357e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.5301e-003
tblVehicleEF	MDV	2.3820e-003	2.0580e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.65
tblVehicleEF	MDV	0.28	0.51
tblVehicleEF	MDV	4.8960e-003	4.1071e-003
tblVehicleEF	MDV	1.1700e-003	8.9248e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.13	0.65
tblVehicleEF	MDV	0.31	0.56
tblVehicleEF	MH	0.04	4.0644e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.60	0.38
tblVehicleEF	MH	6.96	0.00

tblVehicleEF	MH	1,048.28	936.22
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.64	5.05
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.19
tblVehicleEF	MH	1.2510e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2210e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.18
tblVehicleEF	MH	1.1500e-003	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	8.8506e-003
tblVehicleEF	MH	7.2000e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.04	4.0644e-003

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.74	0.38
tblVehicleEF	MH	6.31	0.00
tblVehicleEF	MH	1,048.28	936.22
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.50	4.73
tblVehicleEF	MH	0.90	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.19
tblVehicleEF	MH	1.2510e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2210e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.18
tblVehicleEF	MH	1.1500e-003	0.00
tblVehicleEF	MH	3.12	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.8506e-003
tblVehicleEF	MH	7.0900e-004	0.00
tblVehicleEF	MH	3.12	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.17	0.10

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.04	4.0644e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.61	0.38
tblVehicleEF	MH	6.87	0.00
tblVehicleEF	MH	1,048.28	936.22
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.61	4.97
tblVehicleEF	MH	0.94	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.19
tblVehicleEF	MH	1.2510e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2210e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.18
tblVehicleEF	MH	1.1500e-003	0.00
tblVehicleEF	MH	1.88	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	8.8506e-003
tblVehicleEF	MH	7.1900e-004	0.00
tblVehicleEF	MH	1.88	0.00

tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.43	0.00
tblVehicleEF	MHD	0.02	5.4628e-003
tblVehicleEF	MHD	4.1450e-003	6.2249e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.33	0.44
tblVehicleEF	MHD	0.31	0.67
tblVehicleEF	MHD	6.00	1.87
tblVehicleEF	MHD	155.10	70.79
tblVehicleEF	MHD	1,105.72	1,107.75
tblVehicleEF	MHD	53.92	15.06
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	1.08	1.89
tblVehicleEF	MHD	11.74	0.98
tblVehicleEF	MHD	4.3700e-004	1.7551e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.5780e-003	0.06
tblVehicleEF	MHD	8.2200e-004	1.9575e-004
tblVehicleEF	MHD	4.1800e-004	1.6792e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	5.3330e-003	0.06
tblVehicleEF	MHD	7.5600e-004	1.7998e-004

tblVehicleEF	MHD	1.4330e-003	1.2037e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	7.1400e-004	5.5776e-004
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.36	0.08
tblVehicleEF	MHD	1.4910e-003	6.7339e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4400e-004	1.4901e-004
tblVehicleEF	MHD	1.4330e-003	1.2037e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	7.1400e-004	5.5776e-004
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	0.02	0.20
tblVehicleEF	MHD	0.40	0.09
tblVehicleEF	MHD	0.02	5.1738e-003
tblVehicleEF	MHD	4.2290e-003	6.3499e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.24	0.35
tblVehicleEF	MHD	0.32	0.68
tblVehicleEF	MHD	5.61	1.72
tblVehicleEF	MHD	164.29	72.16
tblVehicleEF	MHD	1,105.72	1,107.78
tblVehicleEF	MHD	53.92	14.81
tblVehicleEF	MHD	0.65	0.57

tblVehicleEF	MHD	1.01	1.76
tblVehicleEF	MHD	11.70	0.97
tblVehicleEF	MHD	3.6900e-004	1.4820e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.5780e-003	0.06
tblVehicleEF	MHD	8.2200e-004	1.9575e-004
tblVehicleEF	MHD	3.5300e-004	1.4178e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	5.3330e-003	0.06
tblVehicleEF	MHD	7.5600e-004	1.7998e-004
tblVehicleEF	MHD	2.8480e-003	2.6688e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	1.6690e-003	1.6086e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	0.02	0.21
tblVehicleEF	MHD	0.35	0.08
tblVehicleEF	MHD	1.5770e-003	6.8659e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.3800e-004	1.4652e-004
tblVehicleEF	MHD	2.8480e-003	2.6688e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.6690e-003	1.6086e-003
tblVehicleEF	MHD	0.05	0.10

tblVehicleEF	MHD	0.02	0.21
tblVehicleEF	MHD	0.38	0.09
tblVehicleEF	MHD	0.02	5.8908e-003
tblVehicleEF	MHD	4.1530e-003	6.2416e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.46	0.57
tblVehicleEF	MHD	0.31	0.67
tblVehicleEF	MHD	5.90	1.82
tblVehicleEF	MHD	142.41	68.88
tblVehicleEF	MHD	1,105.72	1,107.76
tblVehicleEF	MHD	53.92	14.97
tblVehicleEF	MHD	0.60	0.56
tblVehicleEF	MHD	1.06	1.85
tblVehicleEF	MHD	11.73	0.98
tblVehicleEF	MHD	5.3200e-004	2.1323e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.5780e-003	0.06
tblVehicleEF	MHD	8.2200e-004	1.9575e-004
tblVehicleEF	MHD	5.0900e-004	2.0401e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	5.3330e-003	0.06
tblVehicleEF	MHD	7.5600e-004	1.7998e-004
tblVehicleEF	MHD	1.5800e-003	1.4225e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	7.0500e-004	5.1800e-004
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.36	0.08
tblVehicleEF	MHD	1.3710e-003	6.5509e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4300e-004	1.4813e-004
tblVehicleEF	MHD	1.5800e-003	1.4225e-003
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	7.0500e-004	5.1800e-004
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	0.02	0.22
tblVehicleEF	MHD	0.39	0.09
tblVehicleEF	OBUS	0.01	9.8281e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.27	0.43
tblVehicleEF	OBUS	0.73	1.52
tblVehicleEF	OBUS	6.67	3.30
tblVehicleEF	OBUS	70.21	51.97
tblVehicleEF	OBUS	1,126.32	1,610.98
tblVehicleEF	OBUS	71.08	24.56
tblVehicleEF	OBUS	0.32	0.26
tblVehicleEF	OBUS	1.10	1.20
tblVehicleEF	OBUS	1.97	0.47
tblVehicleEF	OBUS	1.1300e-004	1.0316e-003

tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.4210e-003	0.02
tblVehicleEF	OBUS	9.1200e-004	2.4731e-004
tblVehicleEF	OBUS	1.0800e-004	9.8700e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.1650e-003	0.02
tblVehicleEF	OBUS	8.3900e-004	2.2739e-004
tblVehicleEF	OBUS	2.2350e-003	3.0916e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4600e-004	1.1802e-003
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.05	0.35
tblVehicleEF	OBUS	0.41	0.16
tblVehicleEF	OBUS	6.8200e-004	4.9868e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	8.2800e-004	2.4302e-004
tblVehicleEF	OBUS	2.2350e-003	3.0916e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4600e-004	1.1802e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.05	0.35
tblVehicleEF	OBUS	0.45	0.17
tblVehicleEF	OBUS	0.01	9.8612e-003

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.41
tblVehicleEF	OBUS	0.75	1.57
tblVehicleEF	OBUS	6.11	2.97
tblVehicleEF	OBUS	73.34	52.23
tblVehicleEF	OBUS	1,126.32	1,611.07
tblVehicleEF	OBUS	71.08	24.00
tblVehicleEF	OBUS	0.33	0.26
tblVehicleEF	OBUS	1.02	1.08
tblVehicleEF	OBUS	1.92	0.45
tblVehicleEF	OBUS	9.5000e-005	8.7177e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.4210e-003	0.02
tblVehicleEF	OBUS	9.1200e-004	2.4731e-004
tblVehicleEF	OBUS	9.1000e-005	8.3405e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.1650e-003	0.02
tblVehicleEF	OBUS	8.3900e-004	2.2739e-004
tblVehicleEF	OBUS	4.3510e-003	6.6825e-003
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	2.1830e-003	3.3478e-003
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.05	0.36

tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	OBUS	7.1200e-004	5.0115e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	8.1800e-004	2.3749e-004
tblVehicleEF	OBUS	4.3510e-003	6.6825e-003
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1830e-003	3.3478e-003
tblVehicleEF	OBUS	0.07	0.11
tblVehicleEF	OBUS	0.05	0.36
tblVehicleEF	OBUS	0.42	0.16
tblVehicleEF	OBUS	0.01	9.8316e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.44
tblVehicleEF	OBUS	0.73	1.53
tblVehicleEF	OBUS	6.62	3.24
tblVehicleEF	OBUS	65.88	51.61
tblVehicleEF	OBUS	1,126.32	1,611.00
tblVehicleEF	OBUS	71.08	24.45
tblVehicleEF	OBUS	0.31	0.26
tblVehicleEF	OBUS	1.08	1.17
tblVehicleEF	OBUS	1.96	0.47
tblVehicleEF	OBUS	1.3700e-004	1.2524e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.4210e-003	0.02

tblVehicleEF	OBUS	9.1200e-004	2.4731e-004
tblVehicleEF	OBUS	1.3100e-004	1.1982e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.1650e-003	0.02
tblVehicleEF	OBUS	8.3900e-004	2.2739e-004
tblVehicleEF	OBUS	2.3980e-003	3.4748e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.5900e-004	1.1271e-003
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.05	0.38
tblVehicleEF	OBUS	0.41	0.15
tblVehicleEF	OBUS	6.4100e-004	4.9528e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	8.2700e-004	2.4194e-004
tblVehicleEF	OBUS	2.3980e-003	3.4748e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.5900e-004	1.1271e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.05	0.38
tblVehicleEF	OBUS	0.45	0.17
tblVehicleEF	SBUS	0.86	0.01
tblVehicleEF	SBUS	0.01	4.4371e-003
tblVehicleEF	SBUS	0.07	1.1456e-003
tblVehicleEF	SBUS	5.64	1.00

tblVehicleEF	SBUS	0.71	0.28
tblVehicleEF	SBUS	5.49	0.17
tblVehicleEF	SBUS	1,270.71	324.55
tblVehicleEF	SBUS	1,144.20	1,170.32
tblVehicleEF	SBUS	36.06	0.97
tblVehicleEF	SBUS	12.46	3.52
tblVehicleEF	SBUS	5.17	5.16
tblVehicleEF	SBUS	15.23	0.98
tblVehicleEF	SBUS	0.01	3.9578e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.0600e-004	1.4411e-005
tblVehicleEF	SBUS	0.01	3.7866e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.7630e-003	2.8815e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.6500e-004	1.3250e-005
tblVehicleEF	SBUS	3.0740e-003	5.7898e-005
tblVehicleEF	SBUS	0.02	2.1608e-004
tblVehicleEF	SBUS	0.68	0.08
tblVehicleEF	SBUS	1.3130e-003	2.1958e-005
tblVehicleEF	SBUS	0.12	0.09
tblVehicleEF	SBUS	0.01	1.7428e-003
tblVehicleEF	SBUS	0.28	6.0115e-003
tblVehicleEF	SBUS	0.01	3.0720e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.5600e-004	9.5621e-006
tblVehicleEF	SBUS	3.0740e-003	5.7898e-005
tblVehicleEF	SBUS	0.02	2.1608e-004
tblVehicleEF	SBUS	0.97	0.11
tblVehicleEF	SBUS	1.3130e-003	2.1958e-005
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.01	1.7428e-003
tblVehicleEF	SBUS	0.31	6.5819e-003
tblVehicleEF	SBUS	0.86	0.01
tblVehicleEF	SBUS	0.01	4.4522e-003
tblVehicleEF	SBUS	0.06	8.8875e-004
tblVehicleEF	SBUS	5.48	0.96
tblVehicleEF	SBUS	0.72	0.28
tblVehicleEF	SBUS	3.76	0.10
tblVehicleEF	SBUS	1,335.64	332.90
tblVehicleEF	SBUS	1,144.20	1,170.32
tblVehicleEF	SBUS	36.06	0.86
tblVehicleEF	SBUS	12.86	3.59
tblVehicleEF	SBUS	4.84	4.82
tblVehicleEF	SBUS	15.20	0.98
tblVehicleEF	SBUS	0.01	3.3452e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.0600e-004	1.4411e-005
tblVehicleEF	SBUS	0.01	3.2005e-003
tblVehicleEF	SBUS	0.32	0.32

tblVehicleEF	SBUS	2.7630e-003	2.8815e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.6500e-004	1.3250e-005
tblVehicleEF	SBUS	5.9210e-003	1.3114e-004
tblVehicleEF	SBUS	0.02	3.0235e-004
tblVehicleEF	SBUS	0.67	0.08
tblVehicleEF	SBUS	2.9370e-003	7.4268e-005
tblVehicleEF	SBUS	0.12	0.09
tblVehicleEF	SBUS	9.6420e-003	1.5133e-003
tblVehicleEF	SBUS	0.23	4.6553e-003
tblVehicleEF	SBUS	0.01	3.1509e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.2700e-004	8.5449e-006
tblVehicleEF	SBUS	5.9210e-003	1.3114e-004
tblVehicleEF	SBUS	0.02	3.0235e-004
tblVehicleEF	SBUS	0.96	0.11
tblVehicleEF	SBUS	2.9370e-003	7.4268e-005
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	9.6420e-003	1.5133e-003
tblVehicleEF	SBUS	0.25	5.0969e-003
tblVehicleEF	SBUS	0.86	0.01
tblVehicleEF	SBUS	0.01	4.4384e-003
tblVehicleEF	SBUS	0.07	1.1307e-003
tblVehicleEF	SBUS	5.85	1.05
tblVehicleEF	SBUS	0.71	0.28
tblVehicleEF	SBUS	5.54	0.16
tblVehicleEF	SBUS	1,181.05	313.01

tblVehicleEF	SBUS	1,144.20	1,170.32
tblVehicleEF	SBUS	36.06	0.95
tblVehicleEF	SBUS	11.91	3.42
tblVehicleEF	SBUS	5.09	5.07
tblVehicleEF	SBUS	15.23	0.98
tblVehicleEF	SBUS	0.02	4.8038e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.0600e-004	1.4411e-005
tblVehicleEF	SBUS	0.02	4.5960e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.7630e-003	2.8815e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.6500e-004	1.3250e-005
tblVehicleEF	SBUS	3.2090e-003	7.3226e-005
tblVehicleEF	SBUS	0.02	2.5411e-004
tblVehicleEF	SBUS	0.68	0.08
tblVehicleEF	SBUS	1.2980e-003	1.9839e-005
tblVehicleEF	SBUS	0.12	0.09
tblVehicleEF	SBUS	0.01	2.3232e-003
tblVehicleEF	SBUS	0.29	5.9331e-003
tblVehicleEF	SBUS	0.01	2.9630e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5600e-004	9.4415e-006
tblVehicleEF	SBUS	3.2090e-003	7.3226e-005
tblVehicleEF	SBUS	0.02	2.5411e-004

tblVehicleEF	SBUS	0.97	0.11
tblVehicleEF	SBUS	1.2980e-003	1.9839e-005
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.01	2.3232e-003
tblVehicleEF	SBUS	0.32	6.4959e-003
tblVehicleEF	UBUS	1.95	3.51
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	9.79	26.99
tblVehicleEF	UBUS	14.93	2.87
tblVehicleEF	UBUS	1,861.83	1,847.21
tblVehicleEF	UBUS	135.15	32.35
tblVehicleEF	UBUS	6.43	0.39
tblVehicleEF	UBUS	13.77	0.28
tblVehicleEF	UBUS	0.52	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.07	2.6233e-003
tblVehicleEF	UBUS	1.3790e-003	2.3460e-004
tblVehicleEF	UBUS	0.22	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4849e-003
tblVehicleEF	UBUS	0.07	2.4902e-003
tblVehicleEF	UBUS	1.2680e-003	2.1571e-004
tblVehicleEF	UBUS	8.4220e-003	2.2153e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	4.0730e-003	8.9013e-004
tblVehicleEF	UBUS	0.66	0.06
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.19	0.16

tblVehicleEF	UBUS	0.01	6.5545e-003
tblVehicleEF	UBUS	1.6230e-003	3.2018e-004
tblVehicleEF	UBUS	8.4220e-003	2.2153e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	4.0730e-003	8.9013e-004
tblVehicleEF	UBUS	2.68	3.59
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.30	0.18
tblVehicleEF	UBUS	1.95	3.51
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	9.90	26.99
tblVehicleEF	UBUS	12.23	2.29
tblVehicleEF	UBUS	1,861.83	1,847.22
tblVehicleEF	UBUS	135.15	31.36
tblVehicleEF	UBUS	5.98	0.38
tblVehicleEF	UBUS	13.65	0.26
tblVehicleEF	UBUS	0.52	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.07	2.6233e-003
tblVehicleEF	UBUS	1.3790e-003	2.3460e-004
tblVehicleEF	UBUS	0.22	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4849e-003
tblVehicleEF	UBUS	0.07	2.4902e-003
tblVehicleEF	UBUS	1.2680e-003	2.1571e-004
tblVehicleEF	UBUS	0.02	4.5597e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	9.6640e-003	2.5650e-003

tblVehicleEF	UBUS	0.67	0.06
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.06	0.14
tblVehicleEF	UBUS	0.01	6.5546e-003
tblVehicleEF	UBUS	1.5760e-003	3.1037e-004
tblVehicleEF	UBUS	0.02	4.5597e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	9.6640e-003	2.5650e-003
tblVehicleEF	UBUS	2.69	3.59
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	1.16	0.16
tblVehicleEF	UBUS	1.95	3.51
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	9.80	26.99
tblVehicleEF	UBUS	14.43	2.71
tblVehicleEF	UBUS	1,861.83	1,847.22
tblVehicleEF	UBUS	135.15	32.09
tblVehicleEF	UBUS	6.31	0.39
tblVehicleEF	UBUS	13.74	0.28
tblVehicleEF	UBUS	0.52	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.07	2.6233e-003
tblVehicleEF	UBUS	1.3790e-003	2.3460e-004
tblVehicleEF	UBUS	0.22	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4849e-003
tblVehicleEF	UBUS	0.07	2.4902e-003
tblVehicleEF	UBUS	1.2680e-003	2.1571e-004

tblVehicleEF	UBUS	9.6690e-003	2.4056e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2700e-003	8.2079e-004
tblVehicleEF	UBUS	0.66	0.06
tblVehicleEF	UBUS	0.03	0.11
tblVehicleEF	UBUS	1.17	0.16
tblVehicleEF	UBUS	0.01	6.5546e-003
tblVehicleEF	UBUS	1.6140e-003	3.1758e-004
tblVehicleEF	UBUS	9.6690e-003	2.4056e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2700e-003	8.2079e-004
tblVehicleEF	UBUS	2.68	3.59
tblVehicleEF	UBUS	0.03	0.11
tblVehicleEF	UBUS	1.28	0.18
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	9.50	40.00
tblVehicleTrips	CW_TL	9.50	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00

tblVehicleTrips	ST_TR	1.32	0.43
tblVehicleTrips	ST_TR	1.68	0.38
tblVehicleTrips	SU_TR	0.68	1.07
tblVehicleTrips	SU_TR	1.68	0.38
tblVehicleTrips	WD_TR	6.97	1.06
tblVehicleTrips	WD_TR	1.68	0.38
tblWater	IndoorWaterUseRate	319,999,125.00	0.00
tblWater	IndoorWaterUseRate	546,131,562.50	213,297,953.39

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					
2021	0.0000	0.0000	0.0000	0.0000	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					
2021	0.0000	0.0000	0.0000	0.0000	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)
		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	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Energy	0.2683	2.4389	2.0487	0.0146		0.1854	0.1854		0.1854	0.1854	0.0000	7,291.3285	7,291.3285	0.3120	0.1027	7,329.7294
Mobile	2.9635	90.7965	26.0926	0.3881	14.2101	1.5599	15.7700	3.9934	1.4921	5.4855	0.0000	37,014.6280	37,014.6280	0.1737	0.0000	37,018.9694
Offroad	0.3741	4.2324	2.1188	8.6800e-003		0.1429	0.1429		0.1315	0.1315	0.0000	762.6084	762.6084	0.2466	0.0000	768.7745
Waste						0.0000	0.0000		0.0000	0.0000	798.9400	0.0000	798.9400	47.2160	0.0000	1,979.3399
Water						0.0000	0.0000		0.0000	0.0000	67.6696	648.7898	716.4594	6.9869	0.1717	942.2885
Total	**23.0531**	**97.4686**	**30.3474**	**0.4114**	**14.2101**	**1.8885**	**16.0985**	**3.9934**	**1.8093**	**5.8026**	**866.6096**	**45,717.5238**	**46,584.1333**	**54.9356**	**0.2744**	**48,039.2819**

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	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Energy	0.2263	2.0569	1.7278	0.0123		0.1563	0.1563		0.1563	0.1563	0.0000	6,600.8578	6,600.8578	0.2885	0.0919	6,635.4473
Mobile	2.9635	90.7965	26.0926	0.3881	14.2101	1.5599	15.7700	3.9934	1.4921	5.4855	0.0000	37,014.6280	37,014.6280	0.1737	0.0000	37,018.9694
Offroad	0.3741	4.2324	2.1188	8.6800e-003		0.1429	0.1429		0.1315	0.1315	0.0000	762.6084	762.6084	0.2466	0.0000	768.7745
Waste						0.0000	0.0000		0.0000	0.0000	199.7350	0.0000	199.7350	11.8040	0.0000	494.8350
Water						0.0000	0.0000		0.0000	0.0000	54.1357	519.0318	573.1675	5.5895	0.1373	753.8308
Total	**23.0110**	**97.0866**	**30.0264**	**0.4091**	**14.2101**	**1.8594**	**16.0695**	**3.9934**	**1.7802**	**5.7736**	**253.8707**	**44,897.2951**	**45,151.1657**	**18.1028**	**0.2292**	**45,672.0373**

	ROG	NOx	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	**0.18**	**0.39**	**1.06**	**0.56**	**0.00**	**1.54**	**0.18**	**0.00**	**1.61**	**0.50**	**70.71**	**1.79**	**3.08**	**67.05**	**16.46**	**4.93**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/4/2021	1/3/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 108.81

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	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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	2.9635	90.7965	26.0926	0.3881	14.2101	1.5599	15.7700	3.9934	1.4921	5.4855	0.0000	37,014.6280	37,014.6280	0.1737	0.0000	37,018.9694
Unmitigated	2.9635	90.7965	26.0926	0.3881	14.2101	1.5599	15.7700	3.9934	1.4921	5.4855	0.0000	37,014.6280	37,014.6280	0.1737	0.0000	37,018.9694

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,472.07	589.35	1480.65	19,615,085	19,615,085
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	896.01	896.01	896.01	13,045,895	13,045,895
Total	2,368.08	1,485.36	2,376.65	32,660,979	32,660,979

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 Light Industry	40.00	7.30	7.30	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	40.00	7.30	7.30	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.373600	0.000000	0.182100	0.444300	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.107100	0.000000	0.107100	0.785800	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Hesperia Commerce Center II (Operations - Trucks) - San Bernardino-Mojave Desert County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4,361.7263	4,361.7263	0.2456	0.0508	4,383.0099
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,636.3088	4,636.3088	0.2611	0.0540	4,658.9322
NaturalGas Mitigated	0.2263	2.0569	1.7278	0.0123		0.1563	0.1563		0.1563	0.1563	0.0000	2,239.1314	2,239.1314	0.0429	0.0411	2,252.4375
NaturalGas Unmitigated	0.2683	2.4389	2.0487	0.0146		0.1854	0.1854		0.1854	0.1854	0.0000	2,655.0197	2,655.0197	0.0509	0.0487	2,670.7972

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 Light Industry	4.4959e+007	0.2424	2.2039	1.8513	0.0132		0.1675	0.1675		0.1675	0.1675	0.0000	2,399.1858	2,399.1858	0.0460	0.0440	2,413.4430
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
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	4.79415e+006	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	255.8339	255.8339	4.9000e-003	4.6900e-003	257.3542
Total		**0.2683**	**2.4389**	**2.0487**	**0.0146**		**0.1854**	**0.1854**		**0.1854**	**0.1854**	**0.0000**	**2,655.0197**	**2,655.0197**	**0.0509**	**0.0487**	**2,670.7972**

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					
General Light Industry	3.85826e+007	0.2080	1.8913	1.5887	0.0114		0.1437	0.1437		0.1437	0.1437	0.0000	2,058.9135	2,058.9135	0.0395	0.0378	2,071.1486
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
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	3.37716e+006	0.0182	0.1656	0.1391	9.9000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	180.2179	180.2179	3.4500e-003	3.3000e-003	181.2889
Total		**0.2263**	**2.0569**	**1.7278**	**0.0123**		**0.1563**	**0.1563**		**0.1563**	**0.1563**	**0.0000**	**2,239.1314**	**2,239.1314**	**0.0429**	**0.0411**	**2,252.4375**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.40454e+007	3,281.0011	0.1848	0.0382	3,297.0111
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	228340	53.3402	3.0000e-003	6.2000e-004	53.6005
Unrefrigerated Warehouse-No Rail	5.57349e+006	1,301.9675	0.0733	0.0152	1,308.3206
Total		**4,636.3088**	**0.2611**	**0.0540**	**4,658.9322**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.31321e+007	3,067.6552	0.1727	0.0357	3,082.6242
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	228340	53.3402	3.0000e-003	6.2000e-004	53.6005
Unrefrigerated Warehouse-No Rail	5.31135e+006	1,240.7309	0.0699	0.0145	1,246.7852
Total		**4,361.7263**	**0.2456**	**0.0508**	**4,383.0099**

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	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Unmitigated	19.4472	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803

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	4.5048					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.9342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1500e-003	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Total	**19.4471**	**8.0000e-004**	**0.0873**	**1.0000e-005**		**3.1000e-004**	**3.1000e-004**		**3.1000e-004**	**3.1000e-004**	**0.0000**	**0.1691**	**0.1691**	**4.5000e-004**	**0.0000**	**0.1803**

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	4.5048					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.9342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1500e-003	8.0000e-004	0.0873	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	0.1691	0.1691	4.5000e-004	0.0000	0.1803
Total	**19.4471**	**8.0000e-004**	**0.0873**	**1.0000e-005**		**3.1000e-004**	**3.1000e-004**		**3.1000e-004**	**3.1000e-004**	**0.0000**	**0.1691**	**0.1691**	**4.5000e-004**	**0.0000**	**0.1803**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	573.1675	5.5895	0.1373	753.8308
Unmitigated	716.4594	6.9869	0.1717	942.2885

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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	213.298 / 0	716.4594	6.9869	0.1717	942.2885
Total		**716.4594**	**6.9869**	**0.1717**	**942.2885**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	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	170.638 / 0	573.1675	5.5895	0.1373	753.8308
Total		**573.1675**	**5.5895**	**0.1373**	**753.8308**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	199.7350	11.8040	0.0000	494.8350
Unmitigated	798.9400	47.2160	0.0000	1,979.3399

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	1715.89	348.3102	20.5845	0.0000	862.9237
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2219.95	450.6298	26.6315	0.0000	1,116.4162
Total		**798.9400**	**47.2160**	**0.0000**	**1,979.3399**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	428.973	87.0775	5.1461	0.0000	215.7309
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	554.987	112.6575	6.6579	0.0000	279.1041
Total		**199.7350**	**11.8040**	**0.0000**	**494.8350**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	15	4.00	365	200	0.37	CNG

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.3741	4.2324	2.1188	8.6800e-003		0.1429	0.1429		0.1315	0.1315	0.0000	762.6084	762.6084	0.2466	0.0000	768.7745
Total	**0.3741**	**4.2324**	**2.1188**	**8.6800e-003**		**0.1429**	**0.1429**		**0.1315**	**0.1315**	**0.0000**	**762.6084**	**762.6084**	**0.2466**	**0.0000**	**768.7745**

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

This page intentionally left blank

APPENDIX 4.4:

EMFAC 2014 MODEL OUTPUTS

EMFAC2017 Derived CalEEMod Annual Emission Rates: Year 2021[1,2]

Season	Pollutant	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
Annual	CH4_IDLEX	0	0	0	0	0.0047002	0.002884393	0.005462799	0.033944412	0.0098281	0	0	0.0148569	0
Annual	CH4_RUNEX	0.0026749	0.0073485	0.0046236	0.0067807	0.0076648	0.00458596	0.006224944	0.00277306	0.013413	3.5090854	0.3255683	0.0044371	0.0040644
Annual	CH4_STREX	0.0578648	0.0956738	0.0841905	0.1027589	0.0167827	0.008863023	0.016065028	1.18311E-07	0.0304842	0.0390267	0.2651581	0.0011456	0
Annual	CO_IDLEX	0	0	0	0	0.1684277	0.126983399	0.441332374	9.629008375	0.4258242	0	0	0.9993574	0
Annual	CO_RUNEX	0.6683081	1.4995434	1.0191772	1.3735844	1.1461745	0.691622288	0.667847037	0.277099563	1.5190457	26.99105	22.013324	0.2793525	0.3770585
Annual	CO_STREX	2.2969213	2.6225455	2.9966249	3.6754582	1.0718362	0.554496556	1.871427004	0.000833471	3.30223	2.8692608	8.9844073	0.1653752	0
Annual	CO2_NBIO_IDLEX	0	0	0	0	9.5248787	15.17260314	70.78529758	1752.039462	51.970891	0	0	324.54587	0
Annual	CO2_NBIO_RUNEX	266.85269	316.00046	341.92445	425.57046	651.42903	635.5045078	1107.75197	1319.403427	1610.984	1847.2145	210.64393	1170.3186	936.21688
Annual	CO2_NBIO_STREX	55.748836	67.906481	73.807937	90.686337	10.459744	6.645552615	15.05777141	0.011729666	24.557554	32.354784	62.809923	0.9662743	0
Annual	NOX_IDLEX	0	0	0	0	0.0883012	0.131332727	0.566606408	8.890806324	0.2583853	0	0	3.5179937	0
Annual	NOX_RUNEX	0.046995	0.1511193	0.1113042	0.1567988	2.0544623	2.201925109	1.886552977	2.622989174	1.2049041	0.3881814	1.1909885	5.1565592	5.0527138
Annual	NOX_STREX[3]	0.2056189	0.3324369	0.3596246	0.4385097	0.3043943	0.173823645	0.977976616	1.950342423	0.4712958	0.2816151	0.2684624	0.976146	0
Annual	PM10_IDLEX	0	0	0	0	0.0010218	0.001515623	0.001755109	0.013662057	0.0010316	0	0	0.0039578	0
Annual	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061625751	0.13034	0.1001032	0.01176	0.7448002	0.13034
Annual	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100668	0.010956414	0.012000003	0.035931291	0.012	0.0219395	0.004	0.0115259	0.016
Annual	PM10_RUNEX	0.0014183	0.0021814	0.0014805	0.0016562	0.0135621	0.016497405	0.062150004	0.051808762	0.0178282	0.0026233	0.0017184	0.0324313	0.1852408
Annual	PM10_STREX	0.0019604	0.0031178	0.0020856	0.0022357	0.00028	0.000118469	0.000195749	4.76187E-07	0.0002473	0.0002346	0.0032085	1.441E-05	0
Annual	PM25_IDLEX	0	0	0	0	0.0009776	0.001450058	0.001679184	0.013071042	0.000987	0	0	0.0037866	0
Annual	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026411036	0.05586	0.0429014	0.00504	0.3192001	0.05586
Annual	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025167	0.002739104	0.003000001	0.008982823	0.003	0.0054849	0.001	0.0028815	0.004
Annual	PM25_RUNEX	0.0013072	0.0020076	0.0013625	0.0015301	0.012951	0.015773414	0.059452771	0.049567525	0.0170332	0.0024902	0.0016112	0.0310217	0.1772273
Annual	PM25_STREX	0.0018026	0.0028671	0.0019178	0.002058	0.0002574	0.000108928	0.000179984	4.37836E-07	0.0002274	0.0002157	0.0030299	1.325E-05	0
Annual	ROG_DIURN	0.0686027	0.2140615	0.1163696	0.1295337	0.0034939	0.00143893	0.00120368	2.36398E-06	0.0030916	0.0022153	1.461458	5.79E-05	0
Annual	ROG_HTSK	0.1140346	0.29062	0.1683612	0.1866671	0.0953605	0.042301854	0.036930097	6.93275E-05	0.0305995	0.0154164	0.8796803	0.0002161	0
Annual	ROG_IDLEX	0	0	0	0	0.0205898	0.015414074	0.026933596	0.730244569	0.0489331	0	0	0.0799162	0
Annual	ROG_RESTL	0.051984	0.1434438	0.0901802	0.1061315	0.0015523	0.000670337	0.000557764	1.2306E-06	0.0011802	0.0008901	0.8162044	2.196E-05	0
Annual	ROG_RUNEX	0.0106151	0.0328535	0.0195157	0.0319818	0.0812705	0.072897571	0.078673463	0.053070192	0.0813611	0.0566542	2.2061452	0.0886078	0.087504
Annual	ROG_RUNLS	0.2287987	0.9834642	0.5470746	0.5638528	0.671418	0.271613447	0.204632415	0.000367536	0.3536574	0.0930351	2.2378205	0.0017428	0
Annual	ROG_STREX	0.2622446	0.4997704	0.4080381	0.5210898	0.0849194	0.043950296	0.083861199	6.08414E-07	0.156008	0.1642388	1.9869902	0.0060115	0
Annual	SO2_IDLEX	0	0	0	0	9.201E-05	0.000144713	0.000673394	0.016551555	0.0004987	0	0	0.003072	0
Annual	SO2_RUNEX	0.0026339	0.0031199	0.0033752	0.0041982	0.0063337	0.006115786	0.010638055	0.01246288	0.0158273	0.0065545	0.0020845	0.0111005	0.0088506
Annual	SO2_STREX	0.0005504	0.0006704	0.0007287	0.0008954	0.0001035	6.57631E-05	0.000149009	1.16075E-07	0.000243	0.0003202	0.0006216	9.562E-06	0
Annual	TOG_DIURN	0.0686095	0.2140829	0.1163812	0.1295467	0.0034939	0.00143893	0.00120368	2.36398E-06	0.0030916	0.0022153	1.461458	5.79E-05	0
Annual	TOG_HTSK	0.114046	0.290649	0.168378	0.1866858	0.0953605	0.042301854	0.036930097	6.93275E-05	0.0305995	0.0154164	0.8796803	0.0002161	0
Annual	TOG_IDLEX	0	0	0	0	0.0287558	0.02054545	0.03671194	0.831354429	0.0663601	0	0	0.1089966	0
Annual	TOG_RESTL	0.0519892	0.1434582	0.0901892	0.1061422	0.0015523	0.000670337	0.000557764	1.2306E-06	0.0011802	0.0008901	0.8162044	2.196E-05	0
Annual	TOG_RUNEX	0.0154364	0.0478809	0.0284369	0.0445839	0.1005817	0.085208121	0.094760997	0.060752637	0.1113712	3.588771	2.6880152	0.1013931	0.0996175
Annual	TOG_RUNLS	0.2288216	0.9835625	0.5471293	0.5639092	0.671418	0.271613447	0.204632415	0.000367536	0.3536574	0.0930351	2.2378205	0.0017428	0
Annual	TOG_STREX	0.2871802	0.5472901	0.4468374	0.5705648	0.0929761	0.048120042	0.091817457	6.66137E-07	0.1708092	0.1798209	2.1613607	0.0065819	0
Summer	CH4_IDLEX	0	0	0	0	0.0047187	0.002895333	0.005173765	0.03555194	0.0098612	0	0	0.0148762	0
Summer	CH4_RUNEX	0.0031454	0.0085438	0.0054059	0.0078195	0.0078854	0.00464152	0.00634993	0.00277429	0.0138262	3.5091583	0.3176694	0.0044522	0.0040644
Summer	CH4_STREX	0.0479321	0.0785458	0.0695562	0.0848259	0.0158536	0.00837419	0.015164352	1.10826E-07	0.0284746	0.034398	0.2224301	0.0008888	0
Summer	CO_IDLEX	0	0	0	0	0.1684277	0.126983399	0.35188912	9.44758006	0.4131207	0	0	0.9606434	0
Summer	CO_RUNEX	0.848539	1.8637435	1.280343	1.692519	1.1749269	0.698093127	0.682499887	0.277528535	1.5670807	26.994273	22.206278	0.280191	0.3770585
Summer	CO_STREX	1.8729499	2.1262353	2.4312682	2.9894728	0.9886781	0.512171237	1.723460472	0.000767818	2.9725315	2.2865079	8.0447805	0.1033972	0
Summer	CO2_NBIO_IDLEX	0	0	0	0	9.5248787	15.17260314	72.16075658	1740.606667	52.231838	0	0	332.89886	0
Summer	CO2_NBIO_RUNEX	295.36402	345.58074	371.15686	456.90769	651.47987	635.5158777	1107.777975	1319.404146	1611.0689	1847.2205	210.70519	1170.3202	936.21688
Summer	CO2_NBIO_STREX	54.914408	66.802807	72.656748	89.274077	10.310935	6.569679426	14.80651523	0.011625479	23.999229	31.363762	60.211341	0.863482	0
Summer	NOX_IDLEX	0	0	0	0	0.0883012	0.131332727	0.572538683	8.563880877	0.2580462	0	0	3.5900222	0
Summer	NOX_RUNEX	0.0426474	0.1353447	0.1003464	0.1409154	1.9178599	2.065042641	1.756708404	2.462832844	1.0836509	0.3769315	0.9999713	4.8196409	4.7330264
Summer	NOX_STREX[3]	0.1910134	0.308476	0.3339413	0.4070907	0.2861811	0.163441967	0.96930326	1.9503283	0.4534051	0.2627958	0.2469996	0.9752466	0
Summer	PM10_IDLEX	0	0	0	0	0.0010218	0.001515623	0.001481959	0.013167913	0.0008718	0	0	0.0033452	0
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061625751	0.13034	0.1001032	0.01176	0.7448002	0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100668	0.010956414	0.012000003	0.035931291	0.012	0.0219395	0.004	0.0115259	0.016
Summer	PM10_RUNEX	0.0014183	0.0021814	0.0014805	0.0016562	0.0135621	0.016497405	0.062150004	0.051808762	0.0178282	0.0026233	0.0017184	0.0324313	0.1852408
Summer	PM10_STREX	0.0019604	0.0031178	0.0020856	0.0022357	0.00028	0.000118469	0.000195749	4.76187E-07	0.0002473	0.0002346	0.0032085	1.441E-05	0
Summer	PM25_IDLEX	0	0	0	0	0.0009776	0.001450058	0.00141785	0.012598274	0.0008341	0	0	0.0032005	0
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026411036	0.05586	0.0429014	0.00504	0.3192001	0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025167	0.002739104	0.003000001	0.008982823	0.003	0.0054849	0.001	0.0028815	0.004
Summer	PM25_RUNEX	0.0013072	0.0020076	0.0013625	0.0015301	0.012951	0.015773414	0.059452771	0.049567525	0.0170332	0.0024902	0.0016112	0.0310217	0.1772273
Summer	PM25_STREX	0.0018026	0.0028671	0.0019178	0.002058	0.0002574	0.000108928	0.000179984	4.37836E-07	0.0002274	0.0002157	0.0030299	1.325E-05	0
Summer	ROG_DIURN	0.1557458	0.493328	0.2633941	0.2917439	0.0076478	0.00312269	0.002668816	5.65315E-06	0.0066825	0.0045597	3.5436931	0.0001311	0
Summer	ROG_HTSK	0.1411721	0.388091	0.2116025	0.2267625	0.1227998	0.053995519	0.046967391	8.77623E-05	0.035726	0.0204902	1.4606602	0.0003023	0
Summer	ROG_IDLEX	0	0	0	0	0.0205898	0.015414074	0.025666587	0.764823046	0.0489581	0	0	0.0797945	0
Summer	ROG_RESTL	0.1306789	0.3702802	0.2242604	0.2606185	0.0043187	0.001839844	0.001608566	4.03344E-06	0.0033478	0.002565	2.5274785	7.427E-05	0
Summer	ROG_RUNEX	0.0123358	0.0379384	0.0225903	0.036078	0.0824906	0.073155694	0.079317948	0.053079255	0.0833996	0.0568686	2.1361077	0.0886668	0.087504
Summer	ROG_RUNLS	0.2301911	0.9968321	0.5528288	0.5699317	0.6834737	0.276876048	0.210412452	0.000384076	0.3590939	0.0922682	2.2521319	0.0015133	0
Summer	ROG_STREX	0.214331	0.4059684	0.3327034	0.4250718	0.0798556	0.041333226	0.078880534	5.72279E-07	0.1453639	0.1441845	1.6530152	0.0046553	0
Summer	SO2_IDLEX	0	0	0	0	9.201E-05	0.000144713	0.000686586	0.016443552	0.0005011	0	0	0.0031509	0
Summer	SO2_RUNEX	0.0029154	0.0034119	0.0036638	0.0045076	0.0063342	0.006115898	0.010638313	0.012462887	0.0158282	0.0065546	0.0020851	0.0111005	0.0088506
Summer	SO2_STREX	0.0005422	0.0006596	0.0007173	0.0008814	0.000102	6.50123E-05	0.000146522	1.15044E-07	0.0002375	0.0003104	0.0005958	8.545E-06	0
Summer	TOG_DIURN	0.1557613	0.4933773	0.2634204	0.291773	0.0076478	0.00312269	0.002668816	5.65315E-06	0.0066825	0.0045597	3.5436931	0.0001311	0
Summer	TOG_HTSK	0.1411862	0.3881298	0.2116236	0.2267852	0.1227998	0.053995519	0.046967391	8.77623E-05	0.035726	0.0204902	1.4606602	0.0003023	0
Summer	TOG_IDLEX	0	0	0	0	0.0287558	0.02054545	0.034906564	0.870720848	0.0663885	0	0	0.1088581	0
Summer	TOG_RESTL	0.1306919	0.3703173	0.2242828	0.2606446	0.0043187	0.001839844	0.001608566	4.03344E-06	0.0033478	0.002565	2.5274785	7.427E-05	0
Summer	TOG_RUNEX	0.0179449	0.0552921	0.0329196	0.0506269	0.1023621	0.085584774	0.095701429	0.060765863	0.1143458	3.5890837	2.6058402	0.1014791	0.0996175
Summer	TOG_RUNLS	0.2302141	0.9969318	0.5528841	0.5699887	0.6834737	0.276876048	0.210412452	0.000384076	0.3590939	0.0922682	2.2521319	0.0015133	0
Summer	TOG_STREX	0.2347108	0.4445693	0.3643394	0.4654297	0.0874318	0.04525468	0.086364256	6.26574E-07	0.1591552	0.1578639	1.79816	0.0050969	0

Winter	CH4_IDLEX	0	0	0	0	0.0047053	0.002887331	0.005890815	0.031700032	0.0098316	0	0	0.014866	0
Winter	CH4_RUNEX	0.0025905	0.007125	0.0044829	0.0065501	0.0076945	0.004594716	0.006241599	0.002480891	0.0134788	3.5090966	0.3196593	0.0044384	0.0040644
Winter	CH4_STREX	0.0566311	0.0934567	0.0823531	0.1004643	0.0165382	0.008735425	0.015787123	1.16312E-07	0.0301582	0.0380602	0.2495332	0.0011307	0
Winter	CO_IDLEX	0	0	0	0	0.1684277	0.126983399	0.566254416	9.87905054	0.4433672	0	0	1.0528195	0
Winter	CO_RUNEX	0.617299	1.3939069	0.944598	1.2689154	1.149984	0.692542589	0.669977396	0.276075954	1.5262654	26.991476	20.783926	0.2794205	0.3770585
Winter	CO_STREX	2.2022723	2.5111953	2.8744225	3.5220018	1.0433986	0.540379625	1.818488598	0.000810268	3.2372798	2.7128399	8.4044802	0.1578565	0
Winter	CO2_NBIO_IDLEX	0	0	0	0	9.5248787	15.17260314	68.87746911	1767.737047	51.610534	0	0	313.01079	0
Winter	CO2_NBIO_RUNEX	258.48166	307.31545	333.34237	416.34827	651.43572	635.5061277	1107.755748	1319.159044	1610.9968	1847.2153	208.5212	1170.3188	936.21688
Winter	CO2_NBIO_STREX	55.576148	67.683144	73.578255	90.39556	10.410133	6.620851303	14.96929322	0.011692854	24.448803	32.092634	61.473182	0.954093	0
Winter	NOX_IDLEX	0	0	0	0	0.0883012	0.131332727	0.558413089	9.341832015	0.2588537	0	0	3.4185259	0
Winter	NOX_RUNEX	0.0436753	0.1408216	0.1035247	0.1460964	2.0188258	2.166145569	1.852985277	2.583567528	1.173618	0.3853519	1.1444349	5.0749656	4.970195
Winter	NOX_STREX[3]	0.2006999	0.3246921	0.3511054	0.4281314	0.2978902	0.170097764	0.97512097	1.950337773	0.4653645	0.2771659	0.2632045	0.97606	0
Winter	PM10_IDLEX	0	0	0	0	0.0010218	0.001515623	0.002132317	0.014344279	0.0012524	0	0	0.0048038	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061621215	0.13034	0.1001032	0.01176	0.7448002	0.13034
Winter	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100668	0.010956414	0.012000003	0.035928646	0.012	0.0219395	0.004	0.0115259	0.016
Winter	PM10_RUNEX	0.0014183	0.0021814	0.0014805	0.0016562	0.0135621	0.016497405	0.062150004	0.051808539	0.0178282	0.0026233	0.0017184	0.0324313	0.1852408
Winter	PM10_STREX	0.0019604	0.0031178	0.0020856	0.0022357	0.00028	0.000118469	0.000195749	4.76187E-07	0.0002473	0.0002346	0.0032085	1.441E-05	0
Winter	PM25_IDLEX	0	0	0	0	0.0009776	0.001450058	0.002040074	0.013723751	0.0011982	0	0	0.004596	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026409092	0.05586	0.0429014	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025167	0.002739104	0.003000001	0.008982161	0.003	0.0054849	0.001	0.0028815	0.004
Winter	PM25_RUNEX	0.0013072	0.0020076	0.0013625	0.0015301	0.012951	0.015773414	0.059452771	0.049567312	0.0170332	0.0024902	0.0016112	0.0310217	0.1772273
Winter	PM25_STREX	0.0018026	0.0028671	0.0019178	0.002058	0.0002574	0.000108928	0.000179984	4.37836E-07	0.0002274	0.0002157	0.0030299	1.325E-05	0
Winter	ROG_DIURN	0.0736593	0.2410085	0.1236088	0.1345147	0.0041507	0.001641618	0.001422545	2.73437E-06	0.0034748	0.0024056	1.8435234	7.323E-05	0
Winter	ROG_HTSK	0.125992	0.3389592	0.1883636	0.2045931	0.1153841	0.049653004	0.041823676	8.44099E-05	0.0331301	0.0174081	1.188463	0.0002541	0
Winter	ROG_IDLEX	0	0	0	0	0.0205898	0.015414074	0.028704829	0.68249299	0.0488987	0	0	0.0800842	0
Winter	ROG_RESTL	0.0470322	0.128741	0.081932	0.0969481	0.0014654	0.000621704	0.000518002	1.10931E-06	0.0011271	0.0008208	0.6725868	1.984E-05	0
Winter	ROG_RUNEX	0.0102385	0.031703	0.0188404	0.0306903	0.0814211	0.072934926	0.078766411	0.053066986	0.0816807	0.0566849	2.157056	0.0886133	0.087504
Winter	ROG_RUNLS	0.2587147	1.15611	0.6373986	0.6519435	0.7247069	0.294198042	0.223001825	0.000382932	0.3774331	0.1125847	2.5444428	0.0023232	0
Winter	ROG_STREX	0.2555883	0.4859417	0.3974461	0.5070816	0.0835682	0.043257652	0.082500654	5.98543E-07	0.1542801	0.1600051	1.8612281	0.0059331	0
Winter	SO2_IDLEX	0	0	0	0	9.201E-05	0.000144713	0.000655094	0.016700703	0.0004953	0	0	0.002963	0
Winter	SO2_RUNEX	0.0025512	0.0030341	0.0032904	0.0041071	0.0063337	0.006115802	0.010638093	0.01246288	0.0158275	0.0065546	0.0020635	0.0111005	0.0088506
Winter	SO2_STREX	0.0005487	0.0006682	0.0007264	0.0008925	0.000103	6.55187E-05	0.000148133	1.1571E-07	0.0002419	0.0003176	0.0006083	9.442E-06	0
Winter	TOG_DIURN	0.0736667	0.2410326	0.1236211	0.1345282	0.0041507	0.001641618	0.001422545	2.73437E-06	0.0034748	0.0024056	1.8435234	7.323E-05	0
Winter	TOG_HTSK	0.1260046	0.3389931	0.1883824	0.2046135	0.1153841	0.049653004	0.041823676	8.44099E-05	0.0331301	0.0174081	1.188463	0.0002541	0
Winter	TOG_IDLEX	0	0	0	0	0.0287558	0.02054545	0.039236531	0.776966316	0.066321	0	0	0.1091879	0
Winter	TOG_RESTL	0.0470369	0.1287539	0.0819402	0.0969578	0.0014654	0.000621704	0.000518002	1.10931E-06	0.0011271	0.0008208	0.6725868	1.984E-05	0
Winter	TOG_RUNEX	0.0148879	0.0462068	0.0274535	0.0428005	0.1008015	0.085262629	0.094896626	0.060455735	0.1118376	3.5888158	2.629509	0.1014012	0.0996175
Winter	TOG_RUNLS	0.2587406	1.1562256	0.6374623	0.6520087	0.7247069	0.294198042	0.223001825	0.000382932	0.3774331	0.1125847	2.5444428	0.0023232	0
Winter	TOG_STREX	0.2798911	0.5321468	0.4352384	0.5552304	0.0914967	0.047361684	0.090327832	6.55329E-07	0.1689173	0.1751855	2.0246287	0.0064959	0

1 Source: California Air Resources Board. EMFAC2017 Web Database. https://www.arb.ca.gov/emfac/2017/; California Air Pollution Control Officers Association (CAPCOA). 2017, November. California Emissions Estimator Model User's Guide, Version 2016.3.2, Appendix A.

2 Unless otherwise noted, per CalEEMod methodology, the calculated CalEEMod emission rates are derived from the emission rates obtained using the EMFAC2017 Web Database for the San Bernardino County (MD) region .

3 Because EMFAC2017 provides vehicle trips data for MHDT and HHDT diesel trucks, the formula provided in Appendix A of the CalEEMod User's Guide in calculating the NO_x STREX emission rates are utilized.

This page intentionally left blank