Seaton Commerce Center

ENERGY ANALYSIS

COUNTY OF RIVERSIDE

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LIST OF ABBREVIATED TERMS

(1)	Reference
AQIA	Air Quality Impact Analysis
ARB	Air Resources Board
BACM	Best Available Control Measures
BTU	British Thermal Units
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
COUNTY	County of Riverside
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EIR	Environmental Impact Report
EMFAC	Emissions Factor
EVs	Electric Vehicles
FERC	Federal Energy Regulatory Commission
GPA	General Plan Amendment
GS-1	General Service Rate
GWh	Gigawatt Hour
HHDT	Heavy-Heavy-Duty Trucks
I-215	Interstate 215
IEPR	Integrative Energy Policy Report
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
LDA	Light Duty Auto
LDT1/LDT2	Light Duty Trucks
LHDT	Light-Heavy-Duty Trucks
MARB/IPA	March Air Reserve Base/Inland Port Airport
MDV	Medium Duty Vehicles
MHDT	Medium-Heavy-Duty Trucks
MPG	Miles Per Gallon
MPO	Metropolitan Planning Organization
PG&E	Pacific Gas and Electric
Project	Seaton Commerce Center

RV	Recreational Vehicles
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCE	Southern California Edison
SDG&E	San Diego Gas and Electric
SF	Square Feet
SoCalGas	Southern California Gas
TAC	Toxic Air Contaminants
TEA-21	Transportation Equity Act for the 21st Century
TIA	Traffic Impact Analysis
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Seaton Commerce Center 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.	4.5	*Less Than Significant*	*n/a*
Energy Impact #2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.	4.5	*Less Than Significant*	*n/a*

ES.2 PROJECT DESIGN FEATURES

Pursuant to Riverside County Climate Action Plan (CAP) Measure R2-E10, the Project would implement a photovoltaic system that provides a minimum of 20 percent of the Project electrical power demand. Equivalent measure(s) agreed to by the applicant and Lead Agency may be substituted.

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1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Seaton Commerce Center (Project). The purpose of this report is to ensure that energy implication is considered by the County of Riverside, as the lead agency, and to quantify anticipated energy usage associated with construction and operation 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 Seaton Commerce Center site is located on the southeast corner of Seaton Avenue and Perry Street, in unincorporated County of Riverside, as shown on Exhibit 1-A.

The Project site is currently vacant. Existing land uses near the site include residential homes and rural residential uses west of the Project site; an industrial warehouse currently under construction located east of the Project site; and existing industrial uses northwest, west, and south of the Project site. Light Industrial-designated land use is located north and immediately east of the Project site. Interstate 215 (I-215) is located approximately 1,500 feet northeast of the Project site, and the March Air Reserve Base/Inland Port Airport (MARB/IPA) is located roughly 1.2 miles northeast of the Project site. The Project is located within the Mead Valley Area Plan and is designated as Light Industrial. The Light Industrial land use designation provides for warehousing/distribution, assembly and light manufacturing, repair facilities, and supporting retail (2).

1.2 PROJECT DESCRIPTION

The Site Plan shown on Exhibit 1-B identifies 203,029 square feet of building area. This is slightly less than building area of 203,584 square feet that what was assumed in the *Seaton Commerce Center Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc. (3) In order to maintain analytical consistency with the TIA, the underlying technical evaluation for this study is based on the Project consisting up to 162,867 square feet of high-cube transload / short-term storage warehouse (without cold storage) use (80 percent of the total square footage) and 40,707 square feet of general light industrial use (20 percent of the total square footage) for a total of 203,584 square feet within a single building which would overstate the potential impacts associated with the Project. The Project is anticipated to be constructed in a single phase by the Year 2020.

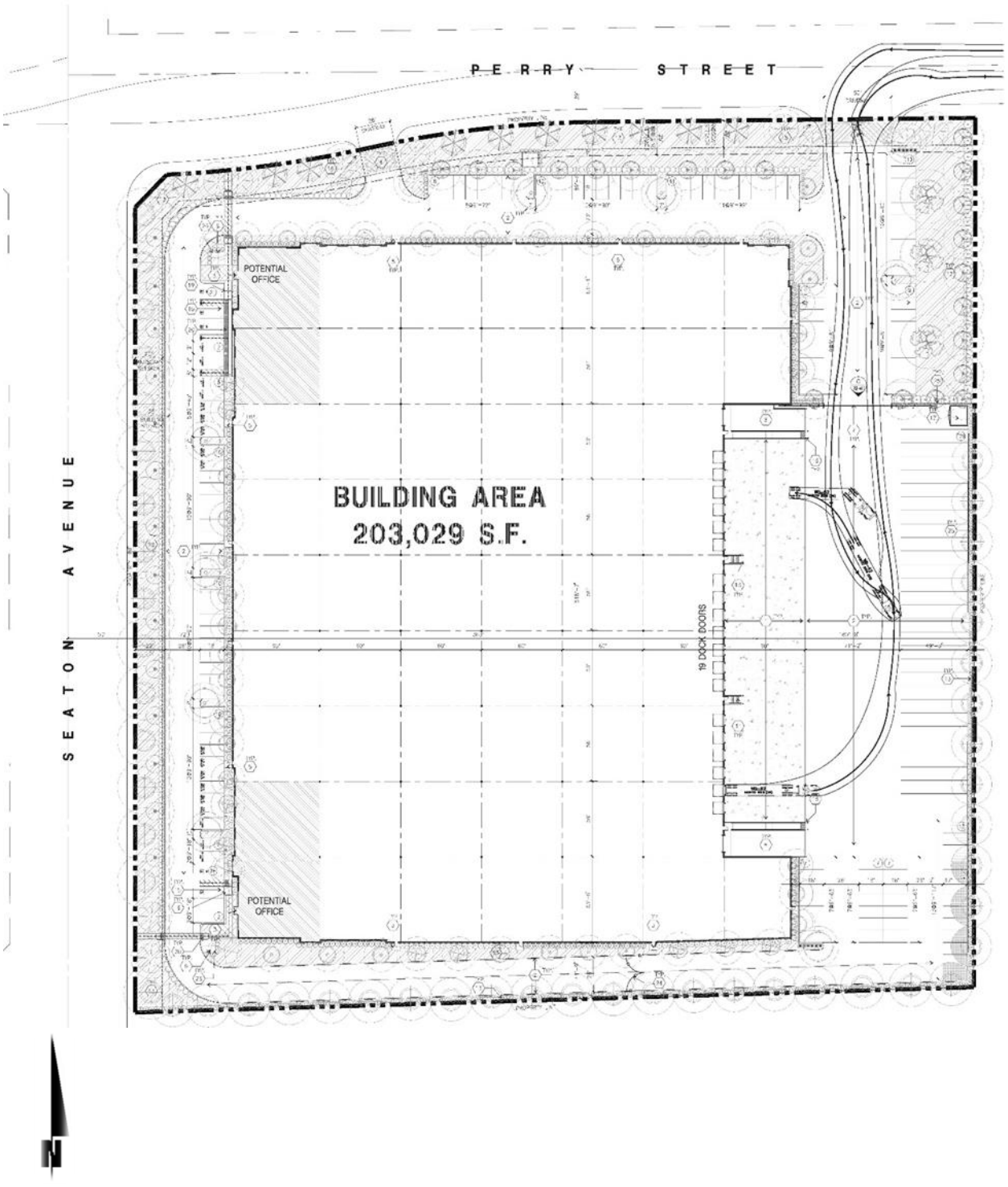
At the time this energy analysis was prepared, the future tenants of the proposed Project were unknown. This analysis is intended to describe emission impacts associated with the expected typical operational activities at the Project site.

Per the *Seaton Commerce Center Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc. the Project trip generation includes 434 two-way vehicular trips per day (217 inbound and 217 outbound) which includes 118 two-way truck trips per day (59 inbound and 59 outbound) (4).

EXHIBIT 1-A: LOCATION MAP



EXHIBIT 1-B: SITE PLAN



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2 EXISTING CONDITIONS

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

2.1 OVERVIEW

The most recent data for California's estimated annual energy use is from 2019 and included:

- Approximately 7,881 trillion British Thermal Unit (BTU) of energy was consumed; (5);
- Approximately 2,115 billion cubic feet of natural gas (5); and
- Approximately 15.8 billion gallons of transportation fuel (for the year 2017) (6)

The most recent data provided by the United States Energy Information Administration (EIA) for energy use in California by demand sector is from 2017 and is reported as follows:

- Approximately 40.3 percent transportation;
- Approximately 23.1 percent industrial;
- Approximately 18.0 percent residential; and
- Approximately 18.7 percent commercial (7)

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%) (8). 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 (GWh)	Percent of California In-State Generation	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

A 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 fourth-largest producer of crude oil among the 50 states in 2017, after Texas, North Dakota, and Alaska, and, as of January 2018, third in oil refining capacity after Texas and Louisiana.
- 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 2016.
- California's total energy consumption is second-highest in the nation, but, in 2016, the state's per capita energy consumption ranked 48th, due in part to its mild climate and its energy efficiency programs.
- In 2017, California ranked second in the nation in conventional hydroelectric generation and first as a producer of electricity from solar, geothermal, and biomass resources.
- In 2017, solar PV and solar thermal installations provided about 16% of California's net electricity generation (9).

As indicated above, California is one of the nation's leading energy-producing states, and California per capita energy use is among the nation's most efficient. Given the nature of the proposed Project being industrial uses, 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 industrial uses planned for the Project.

2.2 ELECTRICITY

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. 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 had revealed the extent to which the Southern California Air Basin (SCAB) 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 (2013 IEPR) after a collaborative process with other energy agencies, utilities, and air districts (10). If the resource development outlined in the preliminary plan continues as detailed, reliability in Southern California would likely be assured; however, tight resource margins have led energy agencies and the ARB to develop a contingency plan. This contingency plan was discussed at a public workshop in Los Angeles on August 20, 2014 and is detailed within this Section (11).

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. 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 (12).

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 sufficient 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 (13).

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 2017. As indicated in Table 2-2, the 2017 SCE Power Mix has renewable energy at 32% of the overall energy resources. Geothermal resources are at 8%, wind power is at 10%, large hydroelectric sources are at 8%, solar energy is at 13%, and coal is at 0%. Biomass and waste sources have decreased to 0% from 1% in 2016. Natural gas is at 20% having decreased from 19% in 2016 (14).

TABLE 2-2: SCE 2017 POWER CONTENT MIX

Energy Resources	2017 SCE Power Mix
Eligible Renewable	**32%**
Biomass & waste	0%
Geothermal	8%
Small Hydroelectric	1%
Solar	13%
Wind	10%
Coal	**0%**
Large Hydroelectric	**8%**
Natural Gas	**20%**
Nuclear	**6%**
Other	**0%**
Unspecified Sources of power*	34%
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 California Emissions Estimator Model (CalEEMod). The following summary of natural gas resources and service providers, delivery systems, and associated regulation 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.*
>
> *The vast majority of California's natural gas customers are residential and small commercial customers, referred to as "core" customers, who accounted for approximately 32% of the natural gas delivered by California utilities in 2012. Large consumers, like electric generators and industrial customers, referred to as "noncore" customers,*

accounted for approximately 68% of the natural gas delivered by California utilities in 2012.

The CPUC regulates the California utilities' natural gas rates and natural gas services, including in-state transportation over the utilities' transmission and distribution pipeline systems, storage, procurement, metering and billing. Most of the natural gas used in California comes from out-of-state natural gas basins. In 2012, California customers received 35% of their natural gas supply from basins located in the Southwest, 16% from Canada, 40% from the Rocky Mountains, and 9% from basins located within California. California gas utilities may soon also begin receiving biogas into their pipeline systems.

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 consumers are the Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Questar Southern Trails and Mojave Pipeline. 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, the CPUC often participates in FERC regulatory proceedings to represent the interests of California natural gas consumers.

Most of the natural gas transported via the interstate pipelines, as well as some of the California-produced natural gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipeline systems (commonly referred to as California's "backbone" natural gas pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered into the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large noncore customers take natural gas directly off the high-pressure backbone pipeline systems, while core customers and other noncore customers take natural gas off the utilities' distribution pipeline systems. The CPUC has regulatory jurisdiction over 150,000 miles of utility-owned natural gas pipelines, which transported 82% of the total amount of natural gas delivered to California's gas consumers in 2012.

SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, and currently receive all of their natural gas from the SoCalGas system (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area). Some other municipal wholesale customers are the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

Some of the natural gas delivered to California customers may be delivered directly to them without being transported over the regulated utility systems. For example, the Kern River/Mojave pipeline system can deliver natural gas directly to some large customers, "bypassing" the utilities' systems. Much of California-produced natural gas is also delivered directly to large consumers.

PG&E and SoCalGas own and operate several natural gas storage fields that are located in northern and southern California. 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 natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. (A portion of the Gill Ranch facility is owned by PG&E).

California's regulated utilities do not own any natural gas production facilities. All of the natural gas sold by these utilities must be purchased from suppliers and/or marketers. The price of natural gas sold by suppliers and marketers was deregulated by the FERC in the mid-1980's and is determined by "market forces." However, the CPUC decides whether California's utilities have taken reasonable steps in order to minimize the cost of natural gas purchased on behalf of their core customers." (15)

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 2018, the Department of Motor Vehicles (DMV) identified 35 million registered vehicles in California (16), and those vehicles (as noted previously) consume an estimated 19 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 170,000 miles of highways and major roadways, more than 27 million passenger vehicles and light trucks, and almost 8 million medium- and heavy-duty vehicles (16). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 92 percent of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (17). Nearly 19 billion gallons of on-highway fuel are burned each year, including 15.1 billion gallons of gasoline (including ethanol) and 3.9 billion gallons of diesel fuel (including biodiesel and renewable diesel). In 2016, Californians also used 194 million therms of natural gas as a transportation fuel (18), or the equivalent of 155 million gallons of gasoline.

[1] Fuel consumptions estimated utilizing information from EMFAC2017.

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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 are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the California Energy Commissions (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

Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)

The Intermodal Surface Transportation Efficiency Act of 1991 (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 site is provided primarily 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 Southern California Association of Governments (SCAG) is not planning for intermodal facilities on or through the Project site.*

The Transportation Equity Act for the 21st Century (TEA-21)

The Transportation Equity Act for the 21st Century (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 site is located along major transportation corridors with proximate access to the Interstate freeway system. The site 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

Integrated Energy Policy Report

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 2018 Integrated Energy Policy Report (2018 IEPR) was adopted February 20, 2019, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2018 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 (19). *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 2018 IEPR*.

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 a number of strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce VMT and accommodate pedestrian and bicycle access. *The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce VMT, takes advantage of existing infrastructure systems, and promotes land use compatibilities through the introduction of high-cube transload/short-term storage warehouse (without cold storage) and general light industrial uses on a light industrial-designated site. The Project therefore supports urban design and planning processes identified under the State of California Energy Plan, is consistent with, and would not otherwise interfere with, nor obstruct implementation of the State of California Energy Plan.*

California Code Title 24, Part 6, Energy Efficiency Standards

California Code of Regulations Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 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 photovoltaic 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 percent less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will about 53 percent less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30 percent less energy due to lighting upgrades (20). *The 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and will become effective on January 1, 2020. As a conservative measure, the analysis herein assumes compliance with the 2016 Title 24 Standards and no additional reduction for compliance with the 2019 standards have been taken.*

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4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

4.1 EVALUATION CRITERIA

In compliance with Appendix G of the *State CEQA Guidelines* (1), 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* (21), 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 California Emissions Estimator Model™ (CalEEMod) 2016.3.2 outputs for the *Seaton Commerce Center Air Quality Impact Analysis* (Urban Crossroads, Inc., 2019) (AQIA) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands (22).

4.2.1 CALIFORNIA EMISSIONS ESTIMATOR MODEL

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 California Emissions Estimator Model (CalEEMod) v2016.3.2. 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. (23). Accordingly, the latest version of CalEEMod has been used to determine the proposed Project's anticipated transportation and facility energy demands. Output from the model runs for construction and operational activity are provided in Appendices 3.1 through 3.3.

4.2.2 EMISSION FACTORS MODEL

On August 19, 2019, the EPA approved the 2017 version of the Emission 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 (24). This study utilizes summer, winter, and annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season.

4.2.3 CONSTRUCTION DURATION

Construction is expected to commence in May 2019 and will last through May 2020. The duration of construction activity represents a reasonable approximation as required per *CEQA Guidelines*. The duration of construction activity was based on CalEEMod defaults and the 2020 opening year.

TABLE 4-1: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Site Preparation	05/01/2019	05/14/2019	10
Grading	05/15/2019	06/11/2019	20
Building Construction	06/12/2019	04/28/2020	230
Paving	04/29/2020	05/26/2020	20
Architectural Coating	04/29/2020	05/26/2020	20

Source: Construction activity based upon information provided by the Project applicant and a 2020 Opening Year.

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 2016.3.2 defaults, and the Project applicant has confirmed that the equipment list is reasonable for the Project's construction. A detailed summary of construction equipment assumptions by phase is provided at Table 4-2. The associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines*.

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

Activity	Equipment	Amount	Hours Per Day
Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8
Grading	Crawler Tractors	3	8
	Excavators	1	8
	Graders	1	8
	Rubber Tired Dozers	1	8
Building Construction	Cranes	2	8
	Crawler Tractors	3	8
	Forklifts	3	8
	Generator Sets	1	8
	Welders	1	8

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

Activity	Equipment	Amount	Hours Per Day
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Source: In order to account for fugitive dust emissions associated with Site Preparation and Grading activities, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes.

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) (25), the typical power cost per 1,000 square feet of building construction per month is estimated to be $2.32. For the Seaton Commerce Center development, the Project plans to develop 164,603 sf of high-cube transload /short-term storage warehouse (without cold storage) use (80 percent of the total sf) and 41,151 sf of general light industrial use (20 percent of the total sf) for a total of 205,754 sf within a single building. As previously stated, the Project is anticipated to be developed in one phase and will be under construction within a 12-month period. Based on Table 4-3, the total power cost of the on-site electricity usage during the construction of the proposed Project is estimated to be approximately $5,728.19. Additionally, as of July 26, 2019, SCE's general service rate schedule (GS-1) for an industrial land uses is $0.08 per kWh of electricity (26). As shown on Table 4-4, the total electricity usage from on-site Project construction related activities is estimated to be approximately 71,602 kWh.

TABLE 4-3: PROJECT CONSTRUCTION POWER COST

Land Use	**Power Cost** (per 1,000 sf of building per month of construction)	**Total Building Size** (1,000 sf)	**Construction Duration** (months)	**Project Construction Power Cost**
High-Cube Transload/Short-Term Storage Warehouse (without Cold Storage)	$2.32	41.151	12	$1,145.64
General Light Industry	$2.32	164.603	12	$4,582.55
TOTAL PROJECT CONSTRUCTION POWER COST				***$5,728.19***

TABLE 4-4: PROJECT CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
High-Cube Transload/Short-Term Storage Warehouse (without Cold Storage)	$0.08	14,321
General Light Industry	$0.08	57,282
TOTAL PROJECT CONSTURCTION ELECTRICTY USAGE (kWh)		***71,602***

[1]Assumes the Project will be under the GS-1 General Industrial service rate under SCE

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 hp-hr-gal., obtained from California Air Resources Board (CARB) 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines (27). 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 County and region.

As presented in Table 4-5, Project construction activities would consume an estimated 63,955 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

Activity/Duration	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Site Preparation (10 days)	Crawler Tractors	212	4	8	0.43	2,917	1,577
	Rubber Tired Dozers	247	3	8	0.40	2,371	1,282
Grading (20 days)	Crawler Tractors	212	3	8	0.43	2,188	2,365
	Excavators	158	1	8	0.38	480	519
	Graders	187	1	8	0.41	613	663
	Rubber Tired Dozers	247	1	8	0.40	790	854
Building Construction (230 days)	Cranes	231	2	8	0.29	1,072	13,326
	Crawler Tractors	212	3	8	0.43	2,188	27,200
	Forklifts	89	3	8	0.20	427	5,311
	Generator Sets	84	1	8	0.74	497	6,182
	Welders	46	1	8	0.45	166	2,059
Paving (20 days)	Pavers	130	2	8	0.42	874	944
	Paving Equipment	132	2	8	0.36	760	822
	Rollers	80	2	8	0.38	486	526
Architectural Coating (20 days)	Air Compressors	78	1	8	0.48	300	324
CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)							***63,955***

4.3.3 CONSTRUCTION WORKER FUEL ESTIMATES

It is assumed that all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated VMT, the construction worker trips would generate an estimated 585,795 VMT (22). Data regarding Project related construction worker trips were based on CalEEMod 2016.3.2 model defaults utilized within the AQIA. Output from the model runs for construction activity are provided in Appendix 3.1.

As previously stated, vehicle fuel efficiencies for LDAs were estimated using information generated within the 2017 version of the EMFAC developed by the CARB. EMFAC2017 was run for the LDA vehicle class within the California sub-area for a 2020 calendar year. Data from EMFAC2017 is shown in Appendix 3.4.

As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 30.76 miles per gallon (mpg). Table 4-6 provides an estimated annual fuel consumption resulting from the Project generated by LDAs related to construction worker trips. Based on Table 4-6, it is estimated that 19,044 gallons of fuel will be consumed related to construction worker trips during full construction of the proposed Project. Project 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.

TABLE 4-6: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES

Construction Activity	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Site Preparation (10 days)	18	14.7	2,646	30.76	86
Grading (20 days)	15	14.7	4,410	30.76	143
Building Construction (230 days)	167	14.7	564,627	30.76	18,355
Paving (20 days)	15	14.7	4,410	30.76	143
Architectural Coating (20 days)	33	14.7	9,702	30.76	315
TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION					***19,044***

4.3.4 CONSTRUCTION VENDOR FUEL ESTIMATES

With respect to estimated VMT, the construction vendor trips would generate an estimated 103,155 VMT along area roadways (22). 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 2016.3.2 CalEEMod defaults utilized within the within the AQIA (22). Vehicle fuel efficiencies for MHDTs and HHDTs were estimated using information generated within EMFAC2017. For purposes of this analysis, EMFAC2017 was run for the MHDT

and HHDT vehicle class within the California sub-area for a 2020 calendar year. Data from EMFAC2017 is shown in Appendix 3.4.

As generated by EMFAC2017, an aggregated fuel economy of MHDTs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 9.56 mpg. Additionally, HHDTs are estimated to have a fuel efficiency of 6.82 mpg. Based on Table 4-7, it is estimated that 5,395 gallons of fuel will be consumed related to construction vendor trips (MHDTs) during full construction of the proposed Project. Table 4-8 shows the estimated fuel economy of HHDTs accessing the Project site. Based on Table 4-8, fuel consumption from construction vendor trips (HHDTs) will total approximately 7,561 gallons. The total fuel consumption from construction vendor trips (MHDTs and HHDTs) is 12,956 gallons. 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.

TABLE 4-7: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHDT)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (230 days)	32.5	6.9	51,578	9.56	5,395
				PROJECT MHDT TOTAL	***5,395***

TABLE 4-8: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (HHDT)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (230 days)	32.5	6.9	51,578	6.82	7,561
				PROJECT HHDT TOTAL	***7,561***

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 (TAC). 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, California Code of Regulations 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 County 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 employee and patron vehicles accessing the Project site) 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 site.

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 859,444 annual VMT along area roadways for all LDAs with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 30.76 mpg. Table 4-9 provides an estimated range of annual fuel consumption resulting from Project generated LDAs. Based on Table 4-9, it is estimated that 27,940 gallons of fuel will be consumed from Project generated LDA trips.

TABLE 4-9: PROJECT-GENERATED LDA VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
859,444	30.76	27,940

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 61,414 annual VMT along area roadways for all Light-Duty Trucks (LDT1)[2] vehicles with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of LDT1s ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 25.77 mpg. Table 4-10 provides an estimated range of annual fuel consumption resulting from Project generated LDT1s. Based on Table 4-10, it is estimated that 2,384 gallons of fuel will be consumed from Project generated LDT1 trips.

TABLE 4-10: PROJECT-GENERATED LDT1 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
61,414	25.77	2,384

Additionally, the Project would generate an estimated 294,524 annual VMT along area roadways for all LDT2[3] vehicles with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of LDT2s ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 23.92 mpg. Table 4-11 provides an estimated range of annual fuel consumption resulting from Project generated LDT2s. Based on Table 4-11, it is estimated that 12,311 gallons of fuel will be consumed from Project generated LDT2 trips.

[2] 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.

[3] 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 4-11: PROJECT-GENERATED LDT2 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
294,524	23.92	12,311

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 195,044 annual VMT along area roadways for all Medium-Duty Trucks (MDV) vehicles with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of MDVs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 19.36 mpg. Table 4-12 provides an estimated range of annual fuel consumption resulting from Project generated MDVs. Based on Table 4-12, it is estimated that 10,072 gallons of fuel will be consumed from Project generated MDV trips.

TABLE 4-12: PROJECT-GENERATED MDV VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
195,044	19.36	10,072

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 358,719 annual VMT along area roadways for all LHDTs with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of LHDTs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 14.08 mpg. Table 4-13 provides an estimated range of annual fuel consumption resulting from Project generated LHDTs. Based on Table 4-13, it is estimated that 25,474 gallons of fuel will be consumed from Project generated LHDT trips.

TABLE 4-13: PROJECT-GENERATED LHDT TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
358,719	14.08	25,474

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 292,236 annual VMT along area roadways for all MHDTs with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of MHDTs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 8.50 mpg. Table 4-14 provides an estimated range of annual fuel consumption resulting from Project generated MHDTs. Based on Table 4-14, it is estimated that 34,383 gallons of fuel will be consumed from Project generated MHDT trips.

TABLE 4-14: PROJECT-GENERATED MHDT TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
292,236	8.50	34,383

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 818,446 annual VMT along area roadways for all HHDTs with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of HHDTs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 5.85 mpg. Table 4-15 provides an estimated range of annual fuel consumption resulting from Project generated HHDTs. Based on Table 4-15, it is estimated that 139,914 gallons of fuel will be consumed from Project generated HHDT trips.

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

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
818,446	5.85	139,914

As summarized on Table 4-16, the Project will result in 2,879,827 annual VMT and an estimated annual fuel consumption of 252,478 gallons of fuel.

TABLE 4-16: PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)

Vehicle Type	Annual VMT	Estimated Annual Fuel Consumption (gallons)
LDA	859,444	27,940
LDT1	61,414	2,384
LDT2	294,524	12,311
MDV	195,044	10,072
LHDT	358,719	25,474
MHDT	292,236	34,383
HHDT	818,446	139,914
Total (All Vehicles) [4]	***2,879,827***	***252,478***

[4] The number of trips has been modeled consistent with the TIA. The trips presented in the VMT Memo (Urban Crossroads, Inc. 2019) are approximately 2,919,270 annual VMT whereas the annual VMT identified in Table 4-14 is 2,879,827. The approximate 1% difference is due to rounding up of trips in the VMT memo versus how CalEEMod calculates VMT, this difference is negligible and does not affect the findings or conclusions of his assessment.

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 Table 4-17.

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 (28). Non-building energy use, or "plug-in" energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

TABLE 4-17: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Natural Gas Demand	kBTU/year
General Light Industrial	1,337,000
Other Non-Asphalt Surfaces	0
Parking Lot	0
High-Cube Transload/Short-Term Storage Warehouse (without Cold Storage)	334,144
TOTAL PROJECT NATURAL GAS DEMAND	***1,671,144***
Electricity Demand	**kWh/year**
General Light Industrial	417,683
Other Non-Asphalt Surfaces	0
Parking Lot	46,557
High-Cube Transload/Short-Term Storage Warehouse (without Cold Storage)	388,463
TOTAL PROJECT ELECTRICITY DEMAND	***852,703***

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.

As previously noted, pursuant to Riverside County CAP Measure R2-E10, the Project would implement a photovoltaic system that provides a minimum of 20 percent of the Project electrical power demand. Equivalent measure(s) agreed to by the applicant and Lead Agency may be substituted.

Enhanced Vehicle Fuel Efficiencies

Project annual fuel consumption estimates presented previously in Tables 4-16 and represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site 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.

Project site 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 proposed Project is assumed to be around $5,728.19. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-out, is calculated to be around 71,602 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 63,955 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. Best available control measures inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by County building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the proposed Project would result in the estimated fuel consumption of 19,044 gallons of fuel. Additionally, fuel consumption from construction vendor trips (MHDTs and HHDTs) will total approximately 12,956 gallons. Diesel fuel would be supplied by County 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 2018 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 (19). 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 27,940 gallons of fuel consumption per year for LDAs, 2,384 gallons of fuel of LDT1s, 12,311 gallons of fuel for LDT2s, and 10,072 gallons for fuel for MDVs. Additionally, the operational of the Project would result in an estimated 25,474 gallons of fuel consumption per year for LHDTs, an estimated 34,383 gallons of fuel consumption per year for MHDTs, and 139,914 gallons of fuel consumption per year for HHDTs for the year 2020. The total estimated annual fuel consumption from Project generated VMT would result in a fuel demand 252,478 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 LDAs, LDT1s, LDT2s, MDVs, and LHDs 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: 1,671,144 kBTU/year of natural gas; and 852,703 kWh/year of electricity. Natural gas would be supplied to the Project by SoCalGas; electricity would be supplied by SCE. The Project proposes conventional warehouse and light 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 industrial projects of similar scale and configuration.

Additionally, the Project is will implement the project design features (as summarized in the Executive Summary). Implementation of these project design features combined with the

required Title 24 standards will ensure that the Project energy demands would not be considered inefficient, wasteful, or otherwise unnecessary.

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5 CONCLUSIONS

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 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.

Energy Impact-2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

The Project would implement energy-saving features and operational programs, consistent with the reduction measures set forth in the CAP, to be incorporated into all industrial portions developed pursuant to the Project. Notably, the Project would comply with the California Green Building Standards Code (CALGreen; CCR, Title 24, Part 11) as implemented by the County of Riverside.

As previously discussed, the Project would provide for, and promote, energy efficiencies 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.

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7 CERTIFICATIONS

The contents of this energy report represent an accurate depiction of the environmental impacts associated with the proposed Seaton Commerce Center Project. 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.

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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 – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

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APPENDIX 3.1:

CALEEMOD ANNUAL CONSTRUCTION EMISSIONS MODEL OUTPUTS

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Seaton Commerce Center (Construction - Mitigated)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	41.15	1000sqft	0.94	41,151.00	0
Unrefrigerated Warehouse-No Rail	164.60	1000sqft	3.78	164,603.00	0
Other Non-Asphalt Surfaces	59.75	1000sqft	1.37	59,752.00	0
Parking Lot	195.00	Space	3.05	133,021.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2020
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 - As per the Site Plan, the total Project Area is 9.15 acres.

Construction Phase - Architectural Coating activities to occur concurrent with Paving activities.

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

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Grading -

Architectural Coating - Rule 1113

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 - All equipment operating >150 HP during Site Preparation activities are required to be equipped with Tier 3 or better engines.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
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tblVehicleEF	LDT1	3.5830e-003	2.9370e-003
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.25	1.10
tblVehicleEF	LDT1	0.28	0.51
tblVehicleEF	LDT1	3.1880e-003	3.1430e-003
tblVehicleEF	LDT1	8.0800e-004	6.8000e-004
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.25	1.10
tblVehicleEF	LDT1	0.30	0.55
tblVehicleEF	LDT2	6.1110e-003	4.7770e-003
tblVehicleEF	LDT2	8.2750e-003	0.08
tblVehicleEF	LDT2	0.82	1.08
tblVehicleEF	LDT2	1.71	2.84
tblVehicleEF	LDT2	366.61	350.68
tblVehicleEF	LDT2	83.75	74.14
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	1.6030e-003	1.5740e-003
tblVehicleEF	LDT2	2.3200e-003	2.0490e-003
tblVehicleEF	LDT2	1.4740e-003	1.4490e-003
tblVehicleEF	LDT2	2.1330e-003	1.8840e-003

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.11	0.36
tblVehicleEF	LDT2	3.6730e-003	3.4700e-003
tblVehicleEF	LDT2	8.6600e-004	7.3400e-004
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.12	0.40
tblVehicleEF	LDT2	6.9350e-003	5.4290e-003
tblVehicleEF	LDT2	7.1890e-003	0.07
tblVehicleEF	LDT2	1.00	1.32
tblVehicleEF	LDT2	1.51	2.51
tblVehicleEF	LDT2	398.95	375.76
tblVehicleEF	LDT2	83.75	73.47
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	1.6030e-003	1.5740e-003
tblVehicleEF	LDT2	2.3200e-003	2.0490e-003
tblVehicleEF	LDT2	1.4740e-003	1.4490e-003
tblVehicleEF	LDT2	2.1330e-003	1.8840e-003
tblVehicleEF	LDT2	0.14	0.23
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.17
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	3.9980e-003	3.7180e-003
tblVehicleEF	LDT2	8.6300e-004	7.2700e-004
tblVehicleEF	LDT2	0.14	0.23
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.17
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	5.8750e-003	4.5860e-003
tblVehicleEF	LDT2	8.5090e-003	0.08
tblVehicleEF	LDT2	0.76	1.01
tblVehicleEF	LDT2	1.74	2.91
tblVehicleEF	LDT2	356.95	343.08
tblVehicleEF	LDT2	83.75	74.29
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	1.6030e-003	1.5740e-003
tblVehicleEF	LDT2	2.3200e-003	2.0490e-003
tblVehicleEF	LDT2	1.4740e-003	1.4490e-003
tblVehicleEF	LDT2	2.1330e-003	1.8840e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02

tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	3.5750e-003	3.3940e-003
tblVehicleEF	LDT2	8.6700e-004	7.3500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.13	0.41
tblVehicleEF	LHD1	5.6490e-003	4.9850e-003
tblVehicleEF	LHD1	0.01	5.8540e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.03	0.81
tblVehicleEF	LHD1	2.54	1.00
tblVehicleEF	LHD1	9.27	9.49
tblVehicleEF	LHD1	612.92	646.12
tblVehicleEF	LHD1	30.90	10.74
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.35	1.76
tblVehicleEF	LHD1	9.6900e-004	9.6000e-004
tblVehicleEF	LHD1	0.01	9.9920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.5200e-004
tblVehicleEF	LHD1	9.2700e-004	9.1800e-004
tblVehicleEF	LHD1	2.5280e-003	2.4980e-003

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.3200e-004
tblVehicleEF	LHD1	3.9460e-003	3.3400e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9130e-003	1.6150e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.31	0.52
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2860e-003
tblVehicleEF	LHD1	3.5800e-004	1.0600e-004
tblVehicleEF	LHD1	3.9460e-003	3.3400e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9130e-003	1.6150e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.52
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.6490e-003	4.9980e-003
tblVehicleEF	LHD1	0.01	5.9460e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.05	0.82
tblVehicleEF	LHD1	2.42	0.95
tblVehicleEF	LHD1	9.27	9.49
tblVehicleEF	LHD1	612.92	646.14

tblVehicleEF	LHD1	30.90	10.66
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.21	1.65
tblVehicleEF	LHD1	9.6900e-004	9.6000e-004
tblVehicleEF	LHD1	0.01	9.9920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.5200e-004
tblVehicleEF	LHD1	9.2700e-004	9.1800e-004
tblVehicleEF	LHD1	2.5280e-003	2.4980e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.3200e-004
tblVehicleEF	LHD1	7.3960e-003	6.2670e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6890e-003	3.1330e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.31	0.53
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2860e-003
tblVehicleEF	LHD1	3.5500e-004	1.0500e-004
tblVehicleEF	LHD1	7.3960e-003	6.2670e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6890e-003	3.1330e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.53

tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.6490e-003	4.9840e-003
tblVehicleEF	LHD1	0.01	5.8410e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.03	0.81
tblVehicleEF	LHD1	2.54	1.00
tblVehicleEF	LHD1	9.27	9.49
tblVehicleEF	LHD1	612.92	646.11
tblVehicleEF	LHD1	30.90	10.75
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.32	1.74
tblVehicleEF	LHD1	9.6900e-004	9.6000e-004
tblVehicleEF	LHD1	0.01	9.9920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.5200e-004
tblVehicleEF	LHD1	9.2700e-004	9.1800e-004
tblVehicleEF	LHD1	2.5280e-003	2.4980e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.3200e-004
tblVehicleEF	LHD1	3.5540e-003	2.9950e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7480e-003	1.4690e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.33	0.56
tblVehicleEF	LHD1	0.28	0.08

tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2860e-003
tblVehicleEF	LHD1	3.5800e-004	1.0600e-004
tblVehicleEF	LHD1	3.5540e-003	2.9950e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7480e-003	1.4690e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.56
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD2	3.8330e-003	3.2480e-003
tblVehicleEF	LHD2	5.1000e-003	4.1830e-003
tblVehicleEF	LHD2	9.1950e-003	9.6050e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.58
tblVehicleEF	LHD2	1.23	0.58
tblVehicleEF	LHD2	14.53	14.93
tblVehicleEF	LHD2	609.83	645.21
tblVehicleEF	LHD2	23.90	7.43
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.94	1.95
tblVehicleEF	LHD2	1.3510e-003	1.4300e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1000e-004	1.2000e-004
tblVehicleEF	LHD2	1.2930e-003	1.3680e-003
tblVehicleEF	LHD2	2.6930e-003	2.7090e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.1000e-004
tblVehicleEF	LHD2	1.5990e-003	1.7630e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.1500e-004	8.6600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.26
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	1.4200e-004	1.4300e-004
tblVehicleEF	LHD2	5.9300e-003	6.2170e-003
tblVehicleEF	LHD2	2.6200e-004	7.3000e-005
tblVehicleEF	LHD2	1.5990e-003	1.7630e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.6600e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.26
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	3.8330e-003	3.2560e-003
tblVehicleEF	LHD2	5.1600e-003	4.2160e-003
tblVehicleEF	LHD2	8.8690e-003	9.2830e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.58
tblVehicleEF	LHD2	1.18	0.55
tblVehicleEF	LHD2	14.53	14.93
tblVehicleEF	LHD2	609.83	645.22

tblVehicleEF	LHD2	23.90	7.38
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.83	1.84
tblVehicleEF	LHD2	1.3510e-003	1.4300e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1000e-004	1.2000e-004
tblVehicleEF	LHD2	1.2930e-003	1.3680e-003
tblVehicleEF	LHD2	2.6930e-003	2.7090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.1000e-004
tblVehicleEF	LHD2	3.0260e-003	3.3310e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5540e-003	1.6720e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	1.4200e-004	1.4300e-004
tblVehicleEF	LHD2	5.9300e-003	6.2170e-003
tblVehicleEF	LHD2	2.6100e-004	7.3000e-005
tblVehicleEF	LHD2	3.0260e-003	3.3310e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5540e-003	1.6720e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.27

tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	LHD2	3.8330e-003	3.2470e-003
tblVehicleEF	LHD2	5.0860e-003	4.1740e-003
tblVehicleEF	LHD2	9.2490e-003	9.6750e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.57
tblVehicleEF	LHD2	1.24	0.59
tblVehicleEF	LHD2	14.53	14.93
tblVehicleEF	LHD2	609.83	645.21
tblVehicleEF	LHD2	23.90	7.44
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.92	1.93
tblVehicleEF	LHD2	1.3510e-003	1.4300e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1000e-004	1.2000e-004
tblVehicleEF	LHD2	1.2930e-003	1.3680e-003
tblVehicleEF	LHD2	2.6930e-003	2.7090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.1000e-004
tblVehicleEF	LHD2	1.2860e-003	1.4040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.9100e-004	7.2000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.12	0.05

tblVehicleEF	LHD2	1.4200e-004	1.4300e-004
tblVehicleEF	LHD2	5.9300e-003	6.2170e-003
tblVehicleEF	LHD2	2.6200e-004	7.4000e-005
tblVehicleEF	LHD2	1.2860e-003	1.4040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.9100e-004	7.2000e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.93	19.98
tblVehicleEF	MCY	9.66	8.54
tblVehicleEF	MCY	164.88	208.03
tblVehicleEF	MCY	46.70	61.07
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7160e-003	1.7000e-003
tblVehicleEF	MCY	3.4600e-003	2.8960e-003
tblVehicleEF	MCY	1.6070e-003	1.5920e-003
tblVehicleEF	MCY	3.2650e-003	2.7310e-003
tblVehicleEF	MCY	1.68	1.65
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.93	0.90
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.58	1.92
tblVehicleEF	MCY	2.09	1.84

tblVehicleEF	MCY	2.0370e-003	2.0590e-003
tblVehicleEF	MCY	6.8600e-004	6.0400e-004
tblVehicleEF	MCY	1.68	1.65
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.93	0.90
tblVehicleEF	MCY	2.66	2.67
tblVehicleEF	MCY	0.58	1.92
tblVehicleEF	MCY	2.27	2.00
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.66	20.64
tblVehicleEF	MCY	9.11	8.00
tblVehicleEF	MCY	164.88	208.99
tblVehicleEF	MCY	46.70	59.55
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7160e-003	1.7000e-003
tblVehicleEF	MCY	3.4600e-003	2.8960e-003
tblVehicleEF	MCY	1.6070e-003	1.5920e-003
tblVehicleEF	MCY	3.2650e-003	2.7310e-003
tblVehicleEF	MCY	3.35	3.26
tblVehicleEF	MCY	1.25	1.23
tblVehicleEF	MCY	2.10	2.04
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.58	1.91
tblVehicleEF	MCY	1.87	1.64
tblVehicleEF	MCY	2.0470e-003	2.0680e-003
tblVehicleEF	MCY	6.7100e-004	5.8900e-004

tblVehicleEF	MCY	3.35	3.26
tblVehicleEF	MCY	1.25	1.23
tblVehicleEF	MCY	2.10	2.04
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.58	1.91
tblVehicleEF	MCY	2.03	1.78
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.43	19.49
tblVehicleEF	MCY	9.60	8.46
tblVehicleEF	MCY	164.88	207.22
tblVehicleEF	MCY	46.70	60.96
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	1.7160e-003	1.7000e-003
tblVehicleEF	MCY	3.4600e-003	2.8960e-003
tblVehicleEF	MCY	1.6070e-003	1.5920e-003
tblVehicleEF	MCY	3.2650e-003	2.7310e-003
tblVehicleEF	MCY	1.60	1.58
tblVehicleEF	MCY	1.06	1.04
tblVehicleEF	MCY	0.75	0.73
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.66	2.18
tblVehicleEF	MCY	2.10	1.84
tblVehicleEF	MCY	2.0290e-003	2.0510e-003
tblVehicleEF	MCY	6.8600e-004	6.0300e-004
tblVehicleEF	MCY	1.60	1.58
tblVehicleEF	MCY	1.06	1.04

tblVehicleEF	MCY	0.75	0.73
tblVehicleEF	MCY	2.66	2.66
tblVehicleEF	MCY	0.66	2.18
tblVehicleEF	MCY	2.28	2.00
tblVehicleEF	MDV	0.01	6.5360e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.58	1.34
tblVehicleEF	MDV	3.47	3.43
tblVehicleEF	MDV	501.88	433.73
tblVehicleEF	MDV	112.78	91.53
tblVehicleEF	MDV	0.19	0.14
tblVehicleEF	MDV	1.7360e-003	1.6390e-003
tblVehicleEF	MDV	2.5110e-003	2.1480e-003
tblVehicleEF	MDV	1.6010e-003	1.5130e-003
tblVehicleEF	MDV	2.3110e-003	1.9770e-003
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	5.0330e-003	4.2890e-003
tblVehicleEF	MDV	1.1890e-003	9.0600e-004
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04

tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.30	0.53
tblVehicleEF	MDV	0.02	7.3660e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.91	1.62
tblVehicleEF	MDV	3.08	3.03
tblVehicleEF	MDV	544.80	460.37
tblVehicleEF	MDV	112.78	90.68
tblVehicleEF	MDV	0.18	0.13
tblVehicleEF	MDV	1.7360e-003	1.6390e-003
tblVehicleEF	MDV	2.5110e-003	2.1480e-003
tblVehicleEF	MDV	1.6010e-003	1.5130e-003
tblVehicleEF	MDV	2.3110e-003	1.9770e-003
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.24	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.24	0.42
tblVehicleEF	MDV	5.4670e-003	4.5520e-003
tblVehicleEF	MDV	1.1820e-003	8.9700e-004
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.24	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.26	0.46

tblVehicleEF	MDV	0.01	6.2920e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.48	1.25
tblVehicleEF	MDV	3.54	3.50
tblVehicleEF	MDV	489.12	425.79
tblVehicleEF	MDV	112.78	91.69
tblVehicleEF	MDV	0.18	0.13
tblVehicleEF	MDV	1.7360e-003	1.6390e-003
tblVehicleEF	MDV	2.5110e-003	2.1480e-003
tblVehicleEF	MDV	1.6010e-003	1.5130e-003
tblVehicleEF	MDV	2.3110e-003	1.9770e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.58
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	4.9040e-003	4.2100e-003
tblVehicleEF	MDV	1.1910e-003	9.0700e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.13	0.58
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MH	0.03	3.3780e-003
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	3.14	0.35
tblVehicleEF	MH	6.37	0.00
tblVehicleEF	MH	1,005.77	947.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.76	4.56
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
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tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	9.9900e-003	8.9610e-003
tblVehicleEF	MH	7.0000e-004	0.00
tblVehicleEF	MH	1.64	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.03	3.3780e-003
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	3.24	0.35
tblVehicleEF	MH	5.95	0.00
tblVehicleEF	MH	1,005.77	947.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.63	4.30
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.11	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	9.9910e-003	8.9610e-003
tblVehicleEF	MH	6.9300e-004	0.00
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.11	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.03	3.3780e-003
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	3.12	0.35
tblVehicleEF	MH	6.40	0.00
tblVehicleEF	MH	1,005.77	947.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.74	4.51
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	1.67	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.55	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	9.9890e-003	8.9610e-003
tblVehicleEF	MH	7.0000e-004	0.00
tblVehicleEF	MH	1.67	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.55	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MHD	0.02	3.1150e-003
tblVehicleEF	MHD	6.1240e-003	7.3990e-003

tblVehicleEF	MHD	0.06	8.6500e-003
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tblVehicleEF	MHD	0.47	0.68
tblVehicleEF	MHD	6.54	1.04
tblVehicleEF	MHD	156.54	76.75
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tblVehicleEF	MHD	1.06	0.76
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tblVehicleEF	MHD	3.7720e-003	2.9440e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	9.9000e-005
tblVehicleEF	MHD	3.6080e-003	2.8170e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	7.5200e-004	9.1000e-005
tblVehicleEF	MHD	1.8750e-003	7.7900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	9.0500e-004	3.7800e-004
tblVehicleEF	MHD	0.07	0.13
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.5050e-003	7.2800e-004
tblVehicleEF	MHD	0.01	9.7050e-003
tblVehicleEF	MHD	6.6700e-004	8.1000e-005
tblVehicleEF	MHD	1.8750e-003	7.7900e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	9.0500e-004	3.7800e-004
tblVehicleEF	MHD	0.08	0.15
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.44	0.05
tblVehicleEF	MHD	0.02	2.9530e-003
tblVehicleEF	MHD	6.1890e-003	7.4340e-003
tblVehicleEF	MHD	0.06	8.3580e-003
tblVehicleEF	MHD	0.31	0.28
tblVehicleEF	MHD	0.47	0.69
tblVehicleEF	MHD	6.24	1.00
tblVehicleEF	MHD	165.81	78.63
tblVehicleEF	MHD	1,067.94	1,019.75
tblVehicleEF	MHD	55.18	8.11
tblVehicleEF	MHD	1.10	0.77
tblVehicleEF	MHD	1.60	2.74
tblVehicleEF	MHD	3.1790e-003	2.4840e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	9.9000e-005
tblVehicleEF	MHD	3.0420e-003	2.3770e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	7.5200e-004	9.1000e-005
tblVehicleEF	MHD	3.6340e-003	1.4940e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.7950e-003	7.5400e-004
tblVehicleEF	MHD	0.07	0.13

tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.38	0.05
tblVehicleEF	MHD	1.5920e-003	7.4500e-004
tblVehicleEF	MHD	0.01	9.7050e-003
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tblVehicleEF	MHD	3.6340e-003	1.4940e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.7950e-003	7.5400e-004
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tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.42	0.05
tblVehicleEF	MHD	0.02	3.3480e-003
tblVehicleEF	MHD	6.0850e-003	7.3770e-003
tblVehicleEF	MHD	0.06	8.7240e-003
tblVehicleEF	MHD	0.60	0.43
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tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	9.9000e-005
tblVehicleEF	MHD	4.3910e-003	3.4240e-003

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tblVehicleEF	MHD	7.5200e-004	9.1000e-005
tblVehicleEF	MHD	1.4650e-003	6.2400e-004
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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	7.2400e-004	3.1000e-004
tblVehicleEF	MHD	0.07	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.3840e-003	7.0300e-004
tblVehicleEF	MHD	0.01	9.7050e-003
tblVehicleEF	MHD	6.6800e-004	8.1000e-005
tblVehicleEF	MHD	1.4650e-003	6.2400e-004
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tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	7.2400e-004	3.1000e-004
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tblVehicleEF	OBUS	0.01	9.0760e-003
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tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.50
tblVehicleEF	OBUS	0.63	1.11
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tblVehicleEF	OBUS	1,103.17	1,438.90

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tblVehicleEF	OBUS	1.7700e-004	2.4640e-003
tblVehicleEF	OBUS	7.1510e-003	0.05
tblVehicleEF	OBUS	8.2800e-004	1.9900e-004
tblVehicleEF	OBUS	1.6900e-004	2.3570e-003
tblVehicleEF	OBUS	6.8270e-003	0.05
tblVehicleEF	OBUS	7.6200e-004	1.8300e-004
tblVehicleEF	OBUS	2.2350e-003	2.6070e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.4600e-004	1.1090e-003
tblVehicleEF	OBUS	0.04	0.11
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tblVehicleEF	OBUS	0.41	0.13
tblVehicleEF	OBUS	7.2400e-004	7.0700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2300e-004	2.1100e-004
tblVehicleEF	OBUS	2.2350e-003	2.6070e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4600e-004	1.1090e-003
tblVehicleEF	OBUS	0.06	0.13
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tblVehicleEF	OBUS	0.01	9.0820e-003

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tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	6.8270e-003	0.05
tblVehicleEF	OBUS	7.6200e-004	1.8300e-004
tblVehicleEF	OBUS	4.1760e-003	4.7480e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.8320e-003	2.1400e-003
tblVehicleEF	OBUS	0.04	0.11
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tblVehicleEF	OBUS	0.39	0.13
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tblVehicleEF	OBUS	2.1500e-004	2.9930e-003
tblVehicleEF	OBUS	7.1510e-003	0.05
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tblVehicleEF	OBUS	1.9540e-003	2.4230e-003
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tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.7300e-004	1.0650e-003

tblVehicleEF	OBUS	0.04	0.11
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	OBUS	6.7900e-004	6.9500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2400e-004	2.1100e-004
tblVehicleEF	OBUS	1.9540e-003	2.4230e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.7300e-004	1.0650e-003
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tblVehicleEF	SBUS	0.06	6.8700e-003
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	4.4200e-004	3.7000e-005
tblVehicleEF	SBUS	0.01	4.2080e-003
tblVehicleEF	SBUS	2.7000e-003	2.6520e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.4000e-005
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tblVehicleEF	SBUS	2.0600e-003	5.7700e-004
tblVehicleEF	SBUS	0.13	0.12
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tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.01	6.9240e-003
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tblVehicleEF	SBUS	0.67	0.55

tblVehicleEF	SBUS	4.88	0.68
tblVehicleEF	SBUS	1,207.92	379.26
tblVehicleEF	SBUS	1,108.94	1,125.85
tblVehicleEF	SBUS	53.24	5.60
tblVehicleEF	SBUS	10.92	3.76
tblVehicleEF	SBUS	4.69	4.71
tblVehicleEF	SBUS	0.01	3.7140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4200e-004	3.7000e-005
tblVehicleEF	SBUS	9.8070e-003	3.5540e-003
tblVehicleEF	SBUS	2.7000e-003	2.6520e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.4000e-005
tblVehicleEF	SBUS	8.2250e-003	2.2020e-003
tblVehicleEF	SBUS	0.03	8.4830e-003
tblVehicleEF	SBUS	0.93	0.36
tblVehicleEF	SBUS	3.8990e-003	1.0830e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	SBUS	0.01	3.6210e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.1800e-004	5.5000e-005
tblVehicleEF	SBUS	8.2250e-003	2.2020e-003
tblVehicleEF	SBUS	0.03	8.4830e-003
tblVehicleEF	SBUS	1.35	0.51

tblVehicleEF	SBUS	3.8990e-003	1.0830e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.01	6.8390e-003
tblVehicleEF	SBUS	0.07	7.1070e-003
tblVehicleEF	SBUS	7.99	3.04
tblVehicleEF	SBUS	0.66	0.54
tblVehicleEF	SBUS	7.09	0.98
tblVehicleEF	SBUS	1,081.70	353.53
tblVehicleEF	SBUS	1,108.94	1,125.84
tblVehicleEF	SBUS	53.24	6.11
tblVehicleEF	SBUS	10.11	3.53
tblVehicleEF	SBUS	4.94	4.97
tblVehicleEF	SBUS	0.01	5.3440e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4200e-004	3.7000e-005
tblVehicleEF	SBUS	0.01	5.1120e-003
tblVehicleEF	SBUS	2.7000e-003	2.6520e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.4000e-005
tblVehicleEF	SBUS	4.1410e-003	1.0800e-003
tblVehicleEF	SBUS	0.03	8.1800e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	1.9980e-003	5.5900e-004

tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	6.0000e-005
tblVehicleEF	SBUS	4.1410e-003	1.0800e-003
tblVehicleEF	SBUS	0.03	8.1800e-003
tblVehicleEF	SBUS	1.35	0.51
tblVehicleEF	SBUS	1.9980e-003	5.5900e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	UBUS	1.60	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.35	26.05
tblVehicleEF	UBUS	16.43	1.50
tblVehicleEF	UBUS	1,836.48	1,617.91
tblVehicleEF	UBUS	155.92	18.08
tblVehicleEF	UBUS	5.46	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9350e-003
tblVehicleEF	UBUS	1.6630e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.06	2.7930e-003

tblVehicleEF	UBUS	1.5380e-003	1.4800e-004
tblVehicleEF	UBUS	0.01	1.4100e-003
tblVehicleEF	UBUS	0.13	7.8440e-003
tblVehicleEF	UBUS	5.4970e-003	5.9600e-004
tblVehicleEF	UBUS	0.64	0.05
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.28	0.07
tblVehicleEF	UBUS	0.01	4.8660e-003
tblVehicleEF	UBUS	1.8570e-003	1.7900e-004
tblVehicleEF	UBUS	0.01	1.4100e-003
tblVehicleEF	UBUS	0.13	7.8440e-003
tblVehicleEF	UBUS	5.4970e-003	5.9600e-004
tblVehicleEF	UBUS	2.30	3.42
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.40	0.08
tblVehicleEF	UBUS	1.61	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.64	26.05
tblVehicleEF	UBUS	14.18	1.28
tblVehicleEF	UBUS	1,836.48	1,617.92
tblVehicleEF	UBUS	155.92	17.70
tblVehicleEF	UBUS	5.09	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9350e-003
tblVehicleEF	UBUS	1.6630e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04

tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.06	2.7930e-003
tblVehicleEF	UBUS	1.5380e-003	1.4800e-004
tblVehicleEF	UBUS	0.02	2.5360e-003
tblVehicleEF	UBUS	0.17	9.6870e-003
tblVehicleEF	UBUS	0.01	1.2530e-003
tblVehicleEF	UBUS	0.65	0.05
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.17	0.06
tblVehicleEF	UBUS	0.01	4.8660e-003
tblVehicleEF	UBUS	1.8170e-003	1.7500e-004
tblVehicleEF	UBUS	0.02	2.5360e-003
tblVehicleEF	UBUS	0.17	9.6870e-003
tblVehicleEF	UBUS	0.01	1.2530e-003
tblVehicleEF	UBUS	2.31	3.42
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.28	0.07
tblVehicleEF	UBUS	1.60	3.35
tblVehicleEF	UBUS	0.10	0.02
tblVehicleEF	UBUS	10.37	26.05
tblVehicleEF	UBUS	16.61	1.49
tblVehicleEF	UBUS	1,836.48	1,617.92
tblVehicleEF	UBUS	155.92	18.06
tblVehicleEF	UBUS	5.42	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9350e-003

tblVehicleEF	UBUS	1.6630e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.06	2.7930e-003
tblVehicleEF	UBUS	1.5380e-003	1.4800e-004
tblVehicleEF	UBUS	0.01	1.5280e-003
tblVehicleEF	UBUS	0.16	9.1940e-003
tblVehicleEF	UBUS	4.7660e-003	6.3600e-004
tblVehicleEF	UBUS	0.64	0.05
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.29	0.07
tblVehicleEF	UBUS	0.01	4.8660e-003
tblVehicleEF	UBUS	1.8600e-003	1.7900e-004
tblVehicleEF	UBUS	0.01	1.5280e-003
tblVehicleEF	UBUS	0.16	9.1940e-003
tblVehicleEF	UBUS	4.7660e-003	6.3600e-004
tblVehicleEF	UBUS	2.30	3.42
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.42	0.08
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	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	9,515,937.50	0.00
tblWater	IndoorWaterUseRate	38,063,750.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4444	4.6947	2.4181	6.7800e-003	0.3479	0.1883	0.5362	0.1308	0.1753	0.3061	0.0000	611.9624	611.9624	0.1204	0.0000	614.9711
2020	0.7159	2.2628	1.3693	3.8200e-003	0.1007	0.0902	0.1909	0.0272	0.0841	0.1113	0.0000	341.2238	341.2238	0.0644	0.0000	342.8330
Maximum	**0.7159**	**4.6947**	**2.4181**	**6.7800e-003**	**0.3479**	**0.1883**	**0.5362**	**0.1308**	**0.1753**	**0.3061**	**0.0000**	**611.9624**	**611.9624**	**0.1204**	**0.0000**	**614.9711**

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					
2019	0.3824	4.0879	2.5940	6.7800e-003	0.2366	0.1630	0.3996	0.0782	0.1535	0.2317	0.0000	611.9619	611.9619	0.1204	0.0000	614.9706
2020	0.6962	2.0732	1.4550	3.8200e-003	0.1007	0.0831	0.1838	0.0272	0.0782	0.1053	0.0000	341.2235	341.2235	0.0644	0.0000	342.8328
Maximum	**0.6962**	**4.0879**	**2.5940**	**6.7800e-003**	**0.2366**	**0.1630**	**0.3996**	**0.0782**	**0.1535**	**0.2317**	**0.0000**	**611.9619**	**611.9619**	**0.1204**	**0.0000**	**614.9706**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.04**	**11.45**	**-6.91**	**0.00**	**24.80**	**11.63**	**19.75**	**33.28**	**10.70**	**19.25**	**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	5-1-2019	7-31-2019	1.9150	1.5531
2	8-1-2019	10-31-2019	1.9362	1.7516
3	11-1-2019	1-31-2020	1.8824	1.7055
4	2-1-2020	4-30-2020	1.7484	1.5936
5	5-1-2020	7-31-2020	0.6296	0.6296
		Highest	1.9362	1.7516

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.8546**	**5.0000e-005**	**5.9100e-003**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0114**	**0.0114**	**3.0000e-005**	**0.0000**	**0.0122**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.8546**	**5.0000e-005**	**5.9100e-003**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0114**	**0.0114**	**3.0000e-005**	**0.0000**	**0.0122**

	ROG	NOx	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

Seaton Commerce Center (Construction - Mitigated) - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2019	5/14/2019	5	10	
2	Grading	Grading	5/15/2019	6/11/2019	5	20	
3	Building Construction	Building Construction	6/12/2019	4/28/2020	5	230	
4	Paving	Paving	4/29/2020	5/26/2020	5	20	
5	Architectural Coating	Architectural Coating	4/29/2020	5/26/2020	5	20	

Acres of Grading (Site Preparation Phase): 20

Acres of Grading (Grading Phase): 40

Acres of Paving: 4.42

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 308,631; Non-Residential Outdoor: 102,877; Striped Parking Area: 11,566 (Architectural Coating – sqft)

OffRoad Equipment

Seaton Commerce Center (Construction - Mitigated) - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	3	8.00	212	0.43
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	167.00	65.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	33.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1009	0.0000	0.1009	0.0508	0.0000	0.0508	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0292	0.3410	0.1159	2.8000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	25.6072	25.6072	8.1000e-003	0.0000	25.8097
Total	**0.0292**	**0.3410**	**0.1159**	**2.8000e-004**	**0.1009**	**0.0149**	**0.1158**	**0.0508**	**0.0137**	**0.0645**	**0.0000**	**25.6072**	**25.6072**	**8.1000e-003**	**0.0000**	**25.8097**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.3000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8547	0.8547	2.0000e-005	0.0000	0.8552
Total	**4.5000e-004**	**3.3000e-004**	**3.4100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8547**	**0.8547**	**2.0000e-005**	**0.0000**	**0.8552**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0394	0.0000	0.0394	0.0198	0.0000	0.0198	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.2165	0.1314	2.8000e-004		8.6800e-003	8.6800e-003		8.2200e-003	8.2200e-003	0.0000	25.6072	25.6072	8.1000e-003	0.0000	25.8097
Total	**0.0155**	**0.2165**	**0.1314**	**2.8000e-004**	**0.0394**	**8.6800e-003**	**0.0481**	**0.0198**	**8.2200e-003**	**0.0280**	**0.0000**	**25.6072**	**25.6072**	**8.1000e-003**	**0.0000**	**25.8097**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.3000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8547	0.8547	2.0000e-005	0.0000	0.8552
Total	**4.5000e-004**	**3.3000e-004**	**3.4100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8547**	**0.8547**	**2.0000e-005**	**0.0000**	**0.8552**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0814	0.0000	0.0814	0.0354	0.0000	0.0354	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0371	0.4532	0.1712	4.4000e-004		0.0183	0.0183		0.0169	0.0169	0.0000	39.4265	39.4265	0.0125	0.0000	39.7384
Total	**0.0371**	**0.4532**	**0.1712**	**4.4000e-004**	**0.0814**	**0.0183**	**0.0998**	**0.0354**	**0.0169**	**0.0523**	**0.0000**	**39.4265**	**39.4265**	**0.0125**	**0.0000**	**39.7384**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.4000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4244	1.4244	4.0000e-005	0.0000	1.4254
Total	**7.5000e-004**	**5.4000e-004**	**5.6900e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4244**	**1.4244**	**4.0000e-005**	**0.0000**	**1.4254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0318	0.0000	0.0318	0.0138	0.0000	0.0138	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0252	0.3418	0.1923	4.4000e-004		0.0132	0.0132		0.0123	0.0123	0.0000	39.4265	39.4265	0.0125	0.0000	39.7383
Total	**0.0252**	**0.3418**	**0.1923**	**4.4000e-004**	**0.0318**	**0.0132**	**0.0449**	**0.0138**	**0.0123**	**0.0261**	**0.0000**	**39.4265**	**39.4265**	**0.0125**	**0.0000**	**39.7383**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.4000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4244	1.4244	4.0000e-005	0.0000	1.4254
Total	**7.5000e-004**	**5.4000e-004**	**5.6900e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4244**	**1.4244**	**4.0000e-005**	**0.0000**	**1.4254**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3007	3.3120	1.5542	3.5400e-003		0.1502	0.1502		0.1400	0.1400	0.0000	312.9868	312.9868	0.0866	0.0000	315.1523
Total	**0.3007**	**3.3120**	**1.5542**	**3.5400e-003**		**0.1502**	**0.1502**		**0.1400**	**0.1400**	**0.0000**	**312.9868**	**312.9868**	**0.0866**	**0.0000**	**315.1523**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0160	0.5438	0.1083	1.2200e-003	0.0298	4.1000e-003	0.0339	8.5900e-003	3.9200e-003	0.0125	0.0000	116.6890	116.6890	9.9400e-003	0.0000	116.9376
Worker	0.0601	0.0438	0.4594	1.2700e-003	0.1331	8.4000e-004	0.1339	0.0353	7.7000e-004	0.0361	0.0000	114.9738	114.9738	3.1500e-003	0.0000	115.0524
Total	**0.0761**	**0.5876**	**0.5677**	**2.4900e-003**	**0.1629**	**4.9400e-003**	**0.1678**	**0.0439**	**4.6900e-003**	**0.0486**	**0.0000**	**231.6628**	**231.6628**	**0.0131**	**0.0000**	**231.9900**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2644	2.9411	1.6935	3.5400e-003		0.1362	0.1362		0.1282	0.1282	0.0000	312.9864	312.9864	0.0866	0.0000	315.1520
Total	**0.2644**	**2.9411**	**1.6935**	**3.5400e-003**		**0.1362**	**0.1362**		**0.1282**	**0.1282**	**0.0000**	**312.9864**	**312.9864**	**0.0866**	**0.0000**	**315.1520**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0160	0.5438	0.1083	1.2200e-003	0.0298	4.1000e-003	0.0339	8.5900e-003	3.9200e-003	0.0125	0.0000	116.6890	116.6890	9.9400e-003	0.0000	116.9376
Worker	0.0601	0.0438	0.4594	1.2700e-003	0.1331	8.4000e-004	0.1339	0.0353	7.7000e-004	0.0361	0.0000	114.9738	114.9738	3.1500e-003	0.0000	115.0524
Total	**0.0761**	**0.5876**	**0.5677**	**2.4900e-003**	**0.1629**	**4.9400e-003**	**0.1678**	**0.0439**	**4.6900e-003**	**0.0486**	**0.0000**	**231.6628**	**231.6628**	**0.0131**	**0.0000**	**231.9900**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1622	1.7879	0.8816	2.0700e-003		0.0790	0.0790		0.0737	0.0737	0.0000	180.1826	180.1826	0.0505	0.0000	181.4440
Total	**0.1622**	**1.7879**	**0.8816**	**2.0700e-003**		**0.0790**	**0.0790**		**0.0737**	**0.0737**	**0.0000**	**180.1826**	**180.1826**	**0.0505**	**0.0000**	**181.4440**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8500e-003	0.2873	0.0562	7.1000e-004	0.0175	1.6200e-003	0.0191	5.0300e-003	1.5500e-003	6.5900e-003	0.0000	67.9265	67.9265	5.4300e-003	0.0000	68.0622
Worker	0.0326	0.0229	0.2441	7.2000e-004	0.0780	4.8000e-004	0.0785	0.0207	4.4000e-004	0.0212	0.0000	65.2681	65.2681	1.6300e-003	0.0000	65.3089
Total	**0.0405**	**0.3102**	**0.3003**	**1.4300e-003**	**0.0955**	**2.1000e-003**	**0.0976**	**0.0257**	**1.9900e-003**	**0.0278**	**0.0000**	**133.1945**	**133.1945**	**7.0600e-003**	**0.0000**	**133.3711**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1425	1.5983	0.9673	2.0700e-003		0.0719	0.0719		0.0677	0.0677	0.0000	180.1824	180.1824	0.0505	0.0000	181.4438
Total	**0.1425**	**1.5983**	**0.9673**	**2.0700e-003**		**0.0719**	**0.0719**		**0.0677**	**0.0677**	**0.0000**	**180.1824**	**180.1824**	**0.0505**	**0.0000**	**181.4438**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8500e-003	0.2873	0.0562	7.1000e-004	0.0175	1.6200e-003	0.0191	5.0300e-003	1.5500e-003	6.5900e-003	0.0000	67.9265	67.9265	5.4300e-003	0.0000	68.0622
Worker	0.0326	0.0229	0.2441	7.2000e-004	0.0780	4.8000e-004	0.0785	0.0207	4.4000e-004	0.0212	0.0000	65.2681	65.2681	1.6300e-003	0.0000	65.3089
Total	**0.0405**	**0.3102**	**0.3003**	**1.4300e-003**	**0.0955**	**2.1000e-003**	**0.0976**	**0.0257**	**1.9900e-003**	**0.0278**	**0.0000**	**133.1945**	**133.1945**	**7.0600e-003**	**0.0000**	**133.3711**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	4.0000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0176**	**0.1407**	**0.1465**	**2.3000e-004**		**7.5300e-003**	**7.5300e-003**		**6.9300e-003**	**6.9300e-003**	**0.0000**	**20.0282**	**20.0282**	**6.4800e-003**	**0.0000**	**20.1902**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.1600e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3794	1.3794	3.0000e-005	0.0000	1.3803
Total	**6.9000e-004**	**4.8000e-004**	**5.1600e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3794**	**1.3794**	**3.0000e-005**	**0.0000**	**1.3803**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	4.0000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0176**	**0.1407**	**0.1465**	**2.3000e-004**		**7.5300e-003**	**7.5300e-003**		**6.9300e-003**	**6.9300e-003**	**0.0000**	**20.0282**	**20.0282**	**6.4800e-003**	**0.0000**	**20.1901**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.1600e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3794	1.3794	3.0000e-005	0.0000	1.3803
Total	**6.9000e-004**	**4.8000e-004**	**5.1600e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3794**	**1.3794**	**3.0000e-005**	**0.0000**	**1.3803**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2300e-003	0.0225	0.0244	4.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	3.4043	3.4043	2.6000e-004	0.0000	3.4109
Total	**0.4935**	**0.0225**	**0.0244**	**4.0000e-005**		**1.4800e-003**	**1.4800e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**3.4043**	**3.4043**	**2.6000e-004**	**0.0000**	**3.4109**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5200e-003	1.0600e-003	0.0114	3.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	3.0347	3.0347	8.0000e-005	0.0000	3.0366
Total	**1.5200e-003**	**1.0600e-003**	**0.0114**	**3.0000e-005**	**3.6300e-003**	**2.0000e-005**	**3.6500e-003**	**9.6000e-004**	**2.0000e-005**	**9.8000e-004**	**0.0000**	**3.0347**	**3.0347**	**8.0000e-005**	**0.0000**	**3.0366**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2300e-003	0.0225	0.0244	4.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	3.4043	3.4043	2.6000e-004	0.0000	3.4109
Total	**0.4935**	**0.0225**	**0.0244**	**4.0000e-005**		**1.4800e-003**	**1.4800e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**3.4043**	**3.4043**	**2.6000e-004**	**0.0000**	**3.4109**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5200e-003	1.0600e-003	0.0114	3.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	3.0347	3.0347	8.0000e-005	0.0000	3.0366
Total	**1.5200e-003**	**1.0600e-003**	**0.0114**	**3.0000e-005**	**3.6300e-003**	**2.0000e-005**	**3.6500e-003**	**9.6000e-004**	**2.0000e-005**	**9.8000e-004**	**0.0000**	**3.0347**	**3.0347**	**8.0000e-005**	**0.0000**	**3.0366**

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 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 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	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120
Other Non-Asphalt Surfaces	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120
Parking Lot	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120
Unrefrigerated Warehouse-No Rail	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120

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 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 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 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 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	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Unmitigated	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0981					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.6000e-004	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Total	**0.8546**	**5.0000e-005**	**5.9100e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0114**	**0.0114**	**3.0000e-005**	**0.0000**	**0.0122**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0981					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.6000e-004	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Total	**0.8546**	**5.0000e-005**	**5.9100e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0114**	**0.0114**	**3.0000e-005**	**0.0000**	**0.0122**

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 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 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 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 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

APPENDIX 3.2:

CALEEMOD ANNUAL OPERATIONAL (PASSENGER CAR) EMISSIONS MODEL OUTPUTS

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Seaton Commerce Center (Operations - Passenger Cars)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	41.15	1000sqft	0.94	41,151.00	0
Unrefrigerated Warehouse-No Rail	164.60	1000sqft	3.78	164,603.00	0
Other Non-Asphalt Surfaces	59.75	1000sqft	1.37	59,752.00	0
Parking Lot	195.00	Space	3.05	133,021.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2020
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

Seaton Commerce Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

Project Characteristics -

Land Use - As per the Site Plan, the total Project Area is 9.15 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 TIA.

Operational Off-Road Equipment - Based on the latest available information from SCAQMD.

Fleet Mix - Passenger Car Trips split proportionally between LDA, LDT1, LDT2, and MDV categories.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.54	0.61
tblFleetMix	LDA	0.54	0.61
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.21
tblFleetMix	LDT2	0.18	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.3390e-003	0.00
tblFleetMix	LHD2	5.3390e-003	0.00
tblFleetMix	MCY	4.6290e-003	0.00

tblFleetMix	MCY	4.6290e-003	0.00
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MH	1.1200e-003	0.00
tblFleetMix	MH	1.1200e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	9.5900e-004	0.00
tblFleetMix	SBUS	9.5900e-004	0.00
tblFleetMix	UBUS	1.2130e-003	0.00
tblFleetMix	UBUS	1.2130e-003	0.00
tblLandUse	LandUseSquareFeet	78,000.00	133,021.00
tblLandUse	LotAcreage	1.75	3.05
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	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	1.00
tblVehicleEF	HHD	1.50	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.11	0.00
tblVehicleEF	HHD	3.46	7.24
tblVehicleEF	HHD	0.46	0.42

tblVehicleEF	HHD	1.51	3.2920e-003
tblVehicleEF	HHD	6,555.40	1,398.16
tblVehicleEF	HHD	1,477.34	1,376.03
tblVehicleEF	HHD	4.68	0.03
tblVehicleEF	HHD	27.96	7.37
tblVehicleEF	HHD	3.07	3.47
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	4.0000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.9000e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	9.2000e-005	5.0000e-006
tblVehicleEF	HHD	2.7720e-003	1.3400e-004
tblVehicleEF	HHD	0.90	0.59
tblVehicleEF	HHD	5.1000e-005	3.0000e-006
tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	1.9500e-004	7.0600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.2000e-005	0.00
tblVehicleEF	HHD	9.2000e-005	5.0000e-006

tblVehicleEF	HHD	2.7720e-003	1.3400e-004
tblVehicleEF	HHD	1.03	0.67
tblVehicleEF	HHD	5.1000e-005	3.0000e-006
tblVehicleEF	HHD	0.11	0.11
tblVehicleEF	HHD	1.9500e-004	7.0600e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.42	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.11	0.00
tblVehicleEF	HHD	2.53	7.07
tblVehicleEF	HHD	0.46	0.42
tblVehicleEF	HHD	1.43	3.1130e-003
tblVehicleEF	HHD	6,940.41	1,394.02
tblVehicleEF	HHD	1,477.34	1,376.03
tblVehicleEF	HHD	4.68	0.03
tblVehicleEF	HHD	28.85	7.16
tblVehicleEF	HHD	2.90	3.27
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	4.0000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.9000e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	3.7000e-005	1.0000e-006

tblVehicleEF	HHD	1.7900e-004	1.1000e-005
tblVehicleEF	HHD	3.1980e-003	1.5500e-004
tblVehicleEF	HHD	0.84	0.61
tblVehicleEF	HHD	1.0100e-004	6.0000e-006
tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	2.0100e-004	7.3300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	1.7900e-004	1.1000e-005
tblVehicleEF	HHD	3.1980e-003	1.5500e-004
tblVehicleEF	HHD	0.97	0.69
tblVehicleEF	HHD	1.0100e-004	6.0000e-006
tblVehicleEF	HHD	0.11	0.11
tblVehicleEF	HHD	2.0100e-004	7.3300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.62	0.03
tblVehicleEF	HHD	0.03	4.1140e-003
tblVehicleEF	HHD	0.11	0.00
tblVehicleEF	HHD	4.76	7.46
tblVehicleEF	HHD	0.46	0.38
tblVehicleEF	HHD	1.51	3.2700e-003
tblVehicleEF	HHD	6,023.73	1,400.76
tblVehicleEF	HHD	1,477.34	1,367.42
tblVehicleEF	HHD	4.68	0.03
tblVehicleEF	HHD	26.74	7.65

tblVehicleEF	HHD	3.05	3.43
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	4.0000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.8760e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	7.4000e-005	5.0000e-006
tblVehicleEF	HHD	2.9910e-003	1.5900e-004
tblVehicleEF	HHD	0.96	0.55
tblVehicleEF	HHD	4.5000e-005	3.0000e-006
tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	2.0800e-004	7.4000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.2000e-005	0.00
tblVehicleEF	HHD	7.4000e-005	5.0000e-006
tblVehicleEF	HHD	2.9910e-003	1.5900e-004
tblVehicleEF	HHD	1.11	0.63
tblVehicleEF	HHD	4.5000e-005	3.0000e-006
tblVehicleEF	HHD	0.11	0.10
tblVehicleEF	HHD	2.0800e-004	7.4000e-004

tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.4730e-003	2.8350e-003
tblVehicleEF	LDA	6.2970e-003	0.06
tblVehicleEF	LDA	0.62	0.72
tblVehicleEF	LDA	1.29	2.19
tblVehicleEF	LDA	266.01	273.05
tblVehicleEF	LDA	60.91	56.31
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	1.6430e-003	1.5170e-003
tblVehicleEF	LDA	2.2790e-003	2.0030e-003
tblVehicleEF	LDA	1.5150e-003	1.3980e-003
tblVehicleEF	LDA	2.0950e-003	1.8420e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.6640e-003	2.7010e-003
tblVehicleEF	LDA	6.3100e-004	5.5700e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDA	5.0810e-003	3.2270e-003

tblVehicleEF	LDA	5.4700e-003	0.05
tblVehicleEF	LDA	0.76	0.89
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tblVehicleEF	LDA	289.77	296.99
tblVehicleEF	LDA	60.91	55.80
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6430e-003	1.5170e-003
tblVehicleEF	LDA	2.2790e-003	2.0030e-003
tblVehicleEF	LDA	1.5150e-003	1.3980e-003
tblVehicleEF	LDA	2.0950e-003	1.8420e-003
tblVehicleEF	LDA	0.11	0.15
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	2.9040e-003	2.9380e-003
tblVehicleEF	LDA	6.2800e-004	5.5200e-004
tblVehicleEF	LDA	0.11	0.15
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	4.3110e-003	2.7360e-003
tblVehicleEF	LDA	6.4670e-003	0.06
tblVehicleEF	LDA	0.58	0.68

tblVehicleEF	LDA	1.32	2.23
tblVehicleEF	LDA	259.39	266.43
tblVehicleEF	LDA	60.91	56.41
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6430e-003	1.5170e-003
tblVehicleEF	LDA	2.2790e-003	2.0030e-003
tblVehicleEF	LDA	1.5150e-003	1.3980e-003
tblVehicleEF	LDA	2.0950e-003	1.8420e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.25
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	2.5980e-003	2.6360e-003
tblVehicleEF	LDA	6.3200e-004	5.5800e-004
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tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.25
tblVehicleEF	LDA	0.10	0.28
tblVehicleEF	LDT1	0.01	9.2410e-003
tblVehicleEF	LDT1	0.02	0.10
tblVehicleEF	LDT1	1.62	1.84
tblVehicleEF	LDT1	3.78	2.52
tblVehicleEF	LDT1	325.17	325.31

tblVehicleEF	LDT1	74.01	68.58
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	2.6810e-003	2.5130e-003
tblVehicleEF	LDT1	3.8960e-003	3.1940e-003
tblVehicleEF	LDT1	2.4680e-003	2.3130e-003
tblVehicleEF	LDT1	3.5830e-003	2.9370e-003
tblVehicleEF	LDT1	0.22	0.25
tblVehicleEF	LDT1	0.37	0.30
tblVehicleEF	LDT1	0.15	0.17
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.22	0.95
tblVehicleEF	LDT1	0.27	0.49
tblVehicleEF	LDT1	3.2720e-003	3.2190e-003
tblVehicleEF	LDT1	8.0700e-004	6.7900e-004
tblVehicleEF	LDT1	0.22	0.25
tblVehicleEF	LDT1	0.37	0.30
tblVehicleEF	LDT1	0.15	0.17
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.22	0.95
tblVehicleEF	LDT1	0.30	0.54
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.95	2.22
tblVehicleEF	LDT1	3.33	2.23
tblVehicleEF	LDT1	353.10	350.86
tblVehicleEF	LDT1	74.01	67.90
tblVehicleEF	LDT1	0.15	0.15

tblVehicleEF	LDT1	2.6810e-003	2.5130e-003
tblVehicleEF	LDT1	3.8960e-003	3.1940e-003
tblVehicleEF	LDT1	2.4680e-003	2.3130e-003
tblVehicleEF	LDT1	3.5830e-003	2.9370e-003
tblVehicleEF	LDT1	0.44	0.49
tblVehicleEF	LDT1	0.46	0.37
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.22	0.96
tblVehicleEF	LDT1	0.23	0.43
tblVehicleEF	LDT1	3.5570e-003	3.4720e-003
tblVehicleEF	LDT1	7.9900e-004	6.7200e-004
tblVehicleEF	LDT1	0.44	0.49
tblVehicleEF	LDT1	0.46	0.37
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.22	0.96
tblVehicleEF	LDT1	0.26	0.47
tblVehicleEF	LDT1	0.01	8.8920e-003
tblVehicleEF	LDT1	0.02	0.10
tblVehicleEF	LDT1	1.52	1.72
tblVehicleEF	LDT1	3.84	2.58
tblVehicleEF	LDT1	316.88	317.57
tblVehicleEF	LDT1	74.01	68.71
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	2.6810e-003	2.5130e-003
tblVehicleEF	LDT1	3.8960e-003	3.1940e-003

tblVehicleEF	LDT1	2.4680e-003	2.3130e-003
tblVehicleEF	LDT1	3.5830e-003	2.9370e-003
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.25	1.10
tblVehicleEF	LDT1	0.28	0.51
tblVehicleEF	LDT1	3.1880e-003	3.1430e-003
tblVehicleEF	LDT1	8.0800e-004	6.8000e-004
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.25	1.10
tblVehicleEF	LDT1	0.30	0.55
tblVehicleEF	LDT2	6.1110e-003	4.7770e-003
tblVehicleEF	LDT2	8.2750e-003	0.08
tblVehicleEF	LDT2	0.82	1.08
tblVehicleEF	LDT2	1.71	2.84
tblVehicleEF	LDT2	366.61	350.68
tblVehicleEF	LDT2	83.75	74.14
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	1.6030e-003	1.5740e-003
tblVehicleEF	LDT2	2.3200e-003	2.0490e-003
tblVehicleEF	LDT2	1.4740e-003	1.4490e-003
tblVehicleEF	LDT2	2.1330e-003	1.8840e-003

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.11	0.36
tblVehicleEF	LDT2	3.6730e-003	3.4700e-003
tblVehicleEF	LDT2	8.6600e-004	7.3400e-004
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.12	0.40
tblVehicleEF	LDT2	6.9350e-003	5.4290e-003
tblVehicleEF	LDT2	7.1890e-003	0.07
tblVehicleEF	LDT2	1.00	1.32
tblVehicleEF	LDT2	1.51	2.51
tblVehicleEF	LDT2	398.95	375.76
tblVehicleEF	LDT2	83.75	73.47
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	1.6030e-003	1.5740e-003
tblVehicleEF	LDT2	2.3200e-003	2.0490e-003
tblVehicleEF	LDT2	1.4740e-003	1.4490e-003
tblVehicleEF	LDT2	2.1330e-003	1.8840e-003
tblVehicleEF	LDT2	0.14	0.23
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.17
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	3.9980e-003	3.7180e-003
tblVehicleEF	LDT2	8.6300e-004	7.2700e-004
tblVehicleEF	LDT2	0.14	0.23
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.17
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	5.8750e-003	4.5860e-003
tblVehicleEF	LDT2	8.5090e-003	0.08
tblVehicleEF	LDT2	0.76	1.01
tblVehicleEF	LDT2	1.74	2.91
tblVehicleEF	LDT2	356.95	343.08
tblVehicleEF	LDT2	83.75	74.29
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	1.6030e-003	1.5740e-003
tblVehicleEF	LDT2	2.3200e-003	2.0490e-003
tblVehicleEF	LDT2	1.4740e-003	1.4490e-003
tblVehicleEF	LDT2	2.1330e-003	1.8840e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02

tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	3.5750e-003	3.3940e-003
tblVehicleEF	LDT2	8.6700e-004	7.3500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.53
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tblVehicleEF	LHD1	0.01	5.8540e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.03	0.81
tblVehicleEF	LHD1	2.54	1.00
tblVehicleEF	LHD1	9.27	9.49
tblVehicleEF	LHD1	612.92	646.12
tblVehicleEF	LHD1	30.90	10.74
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.35	1.76
tblVehicleEF	LHD1	9.6900e-004	9.6000e-004
tblVehicleEF	LHD1	0.01	9.9920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.5200e-004
tblVehicleEF	LHD1	9.2700e-004	9.1800e-004
tblVehicleEF	LHD1	2.5280e-003	2.4980e-003

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tblVehicleEF	LHD1	8.5100e-004	2.3200e-004
tblVehicleEF	LHD1	3.9460e-003	3.3400e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9130e-003	1.6150e-003
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tblVehicleEF	LHD1	0.31	0.52
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2860e-003
tblVehicleEF	LHD1	3.5800e-004	1.0600e-004
tblVehicleEF	LHD1	3.9460e-003	3.3400e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9130e-003	1.6150e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.52
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.6490e-003	4.9980e-003
tblVehicleEF	LHD1	0.01	5.9460e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.05	0.82
tblVehicleEF	LHD1	2.42	0.95
tblVehicleEF	LHD1	9.27	9.49
tblVehicleEF	LHD1	612.92	646.14

tblVehicleEF	LHD1	30.90	10.66
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.21	1.65
tblVehicleEF	LHD1	9.6900e-004	9.6000e-004
tblVehicleEF	LHD1	0.01	9.9920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.5200e-004
tblVehicleEF	LHD1	9.2700e-004	9.1800e-004
tblVehicleEF	LHD1	2.5280e-003	2.4980e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.3200e-004
tblVehicleEF	LHD1	7.3960e-003	6.2670e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6890e-003	3.1330e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.31	0.53
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2860e-003
tblVehicleEF	LHD1	3.5500e-004	1.0500e-004
tblVehicleEF	LHD1	7.3960e-003	6.2670e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6890e-003	3.1330e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.53

tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.6490e-003	4.9840e-003
tblVehicleEF	LHD1	0.01	5.8410e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.03	0.81
tblVehicleEF	LHD1	2.54	1.00
tblVehicleEF	LHD1	9.27	9.49
tblVehicleEF	LHD1	612.92	646.11
tblVehicleEF	LHD1	30.90	10.75
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.32	1.74
tblVehicleEF	LHD1	9.6900e-004	9.6000e-004
tblVehicleEF	LHD1	0.01	9.9920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.5200e-004
tblVehicleEF	LHD1	9.2700e-004	9.1800e-004
tblVehicleEF	LHD1	2.5280e-003	2.4980e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.3200e-004
tblVehicleEF	LHD1	3.5540e-003	2.9950e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7480e-003	1.4690e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.33	0.56
tblVehicleEF	LHD1	0.28	0.08

tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2860e-003
tblVehicleEF	LHD1	3.5800e-004	1.0600e-004
tblVehicleEF	LHD1	3.5540e-003	2.9950e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7480e-003	1.4690e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.56
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD2	3.8330e-003	3.2480e-003
tblVehicleEF	LHD2	5.1000e-003	4.1830e-003
tblVehicleEF	LHD2	9.1950e-003	9.6050e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.58
tblVehicleEF	LHD2	1.23	0.58
tblVehicleEF	LHD2	14.53	14.93
tblVehicleEF	LHD2	609.83	645.21
tblVehicleEF	LHD2	23.90	7.43
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.94	1.95
tblVehicleEF	LHD2	1.3510e-003	1.4300e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1000e-004	1.2000e-004
tblVehicleEF	LHD2	1.2930e-003	1.3680e-003
tblVehicleEF	LHD2	2.6930e-003	2.7090e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.1000e-004
tblVehicleEF	LHD2	1.5990e-003	1.7630e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.1500e-004	8.6600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.26
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	1.4200e-004	1.4300e-004
tblVehicleEF	LHD2	5.9300e-003	6.2170e-003
tblVehicleEF	LHD2	2.6200e-004	7.3000e-005
tblVehicleEF	LHD2	1.5990e-003	1.7630e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.6600e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.26
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	3.8330e-003	3.2560e-003
tblVehicleEF	LHD2	5.1600e-003	4.2160e-003
tblVehicleEF	LHD2	8.8690e-003	9.2830e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.58
tblVehicleEF	LHD2	1.18	0.55
tblVehicleEF	LHD2	14.53	14.93
tblVehicleEF	LHD2	609.83	645.22

tblVehicleEF	LHD2	23.90	7.38
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.83	1.84
tblVehicleEF	LHD2	1.3510e-003	1.4300e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1000e-004	1.2000e-004
tblVehicleEF	LHD2	1.2930e-003	1.3680e-003
tblVehicleEF	LHD2	2.6930e-003	2.7090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.1000e-004
tblVehicleEF	LHD2	3.0260e-003	3.3310e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5540e-003	1.6720e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	1.4200e-004	1.4300e-004
tblVehicleEF	LHD2	5.9300e-003	6.2170e-003
tblVehicleEF	LHD2	2.6100e-004	7.3000e-005
tblVehicleEF	LHD2	3.0260e-003	3.3310e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5540e-003	1.6720e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.27

tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	LHD2	3.8330e-003	3.2470e-003
tblVehicleEF	LHD2	5.0860e-003	4.1740e-003
tblVehicleEF	LHD2	9.2490e-003	9.6750e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.57
tblVehicleEF	LHD2	1.24	0.59
tblVehicleEF	LHD2	14.53	14.93
tblVehicleEF	LHD2	609.83	645.21
tblVehicleEF	LHD2	23.90	7.44
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.92	1.93
tblVehicleEF	LHD2	1.3510e-003	1.4300e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1000e-004	1.2000e-004
tblVehicleEF	LHD2	1.2930e-003	1.3680e-003
tblVehicleEF	LHD2	2.6930e-003	2.7090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.1000e-004
tblVehicleEF	LHD2	1.2860e-003	1.4040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.9100e-004	7.2000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.12	0.05

tblVehicleEF	LHD2	1.4200e-004	1.4300e-004
tblVehicleEF	LHD2	5.9300e-003	6.2170e-003
tblVehicleEF	LHD2	2.6200e-004	7.4000e-005
tblVehicleEF	LHD2	1.2860e-003	1.4040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.9100e-004	7.2000e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.93	19.98
tblVehicleEF	MCY	9.66	8.54
tblVehicleEF	MCY	164.88	208.03
tblVehicleEF	MCY	46.70	61.07
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7160e-003	1.7000e-003
tblVehicleEF	MCY	3.4600e-003	2.8960e-003
tblVehicleEF	MCY	1.6070e-003	1.5920e-003
tblVehicleEF	MCY	3.2650e-003	2.7310e-003
tblVehicleEF	MCY	1.68	1.65
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.93	0.90
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.58	1.92
tblVehicleEF	MCY	2.09	1.84

tblVehicleEF	MCY	2.0370e-003	2.0590e-003
tblVehicleEF	MCY	6.8600e-004	6.0400e-004
tblVehicleEF	MCY	1.68	1.65
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.93	0.90
tblVehicleEF	MCY	2.66	2.67
tblVehicleEF	MCY	0.58	1.92
tblVehicleEF	MCY	2.27	2.00
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.66	20.64
tblVehicleEF	MCY	9.11	8.00
tblVehicleEF	MCY	164.88	208.99
tblVehicleEF	MCY	46.70	59.55
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7160e-003	1.7000e-003
tblVehicleEF	MCY	3.4600e-003	2.8960e-003
tblVehicleEF	MCY	1.6070e-003	1.5920e-003
tblVehicleEF	MCY	3.2650e-003	2.7310e-003
tblVehicleEF	MCY	3.35	3.26
tblVehicleEF	MCY	1.25	1.23
tblVehicleEF	MCY	2.10	2.04
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.58	1.91
tblVehicleEF	MCY	1.87	1.64
tblVehicleEF	MCY	2.0470e-003	2.0680e-003
tblVehicleEF	MCY	6.7100e-004	5.8900e-004

tblVehicleEF	MCY	3.35	3.26
tblVehicleEF	MCY	1.25	1.23
tblVehicleEF	MCY	2.10	2.04
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.58	1.91
tblVehicleEF	MCY	2.03	1.78
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.43	19.49
tblVehicleEF	MCY	9.60	8.46
tblVehicleEF	MCY	164.88	207.22
tblVehicleEF	MCY	46.70	60.96
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	1.7160e-003	1.7000e-003
tblVehicleEF	MCY	3.4600e-003	2.8960e-003
tblVehicleEF	MCY	1.6070e-003	1.5920e-003
tblVehicleEF	MCY	3.2650e-003	2.7310e-003
tblVehicleEF	MCY	1.60	1.58
tblVehicleEF	MCY	1.06	1.04
tblVehicleEF	MCY	0.75	0.73
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.66	2.18
tblVehicleEF	MCY	2.10	1.84
tblVehicleEF	MCY	2.0290e-003	2.0510e-003
tblVehicleEF	MCY	6.8600e-004	6.0300e-004
tblVehicleEF	MCY	1.60	1.58
tblVehicleEF	MCY	1.06	1.04

tblVehicleEF	MCY	0.75	0.73
tblVehicleEF	MCY	2.66	2.66
tblVehicleEF	MCY	0.66	2.18
tblVehicleEF	MCY	2.28	2.00
tblVehicleEF	MDV	0.01	6.5360e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.58	1.34
tblVehicleEF	MDV	3.47	3.43
tblVehicleEF	MDV	501.88	433.73
tblVehicleEF	MDV	112.78	91.53
tblVehicleEF	MDV	0.19	0.14
tblVehicleEF	MDV	1.7360e-003	1.6390e-003
tblVehicleEF	MDV	2.5110e-003	2.1480e-003
tblVehicleEF	MDV	1.6010e-003	1.5130e-003
tblVehicleEF	MDV	2.3110e-003	1.9770e-003
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	5.0330e-003	4.2890e-003
tblVehicleEF	MDV	1.1890e-003	9.0600e-004
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04

tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.30	0.53
tblVehicleEF	MDV	0.02	7.3660e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.91	1.62
tblVehicleEF	MDV	3.08	3.03
tblVehicleEF	MDV	544.80	460.37
tblVehicleEF	MDV	112.78	90.68
tblVehicleEF	MDV	0.18	0.13
tblVehicleEF	MDV	1.7360e-003	1.6390e-003
tblVehicleEF	MDV	2.5110e-003	2.1480e-003
tblVehicleEF	MDV	1.6010e-003	1.5130e-003
tblVehicleEF	MDV	2.3110e-003	1.9770e-003
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.24	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.24	0.42
tblVehicleEF	MDV	5.4670e-003	4.5520e-003
tblVehicleEF	MDV	1.1820e-003	8.9700e-004
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.24	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.26	0.46

tblVehicleEF	MDV	0.01	6.2920e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.48	1.25
tblVehicleEF	MDV	3.54	3.50
tblVehicleEF	MDV	489.12	425.79
tblVehicleEF	MDV	112.78	91.69
tblVehicleEF	MDV	0.18	0.13
tblVehicleEF	MDV	1.7360e-003	1.6390e-003
tblVehicleEF	MDV	2.5110e-003	2.1480e-003
tblVehicleEF	MDV	1.6010e-003	1.5130e-003
tblVehicleEF	MDV	2.3110e-003	1.9770e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.58
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	4.9040e-003	4.2100e-003
tblVehicleEF	MDV	1.1910e-003	9.0700e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.13	0.58
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MH	0.03	3.3780e-003
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	3.14	0.35
tblVehicleEF	MH	6.37	0.00
tblVehicleEF	MH	1,005.77	947.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.76	4.56
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	1.64	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	9.9900e-003	8.9610e-003
tblVehicleEF	MH	7.0000e-004	0.00
tblVehicleEF	MH	1.64	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.03	3.3780e-003
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	3.24	0.35
tblVehicleEF	MH	5.95	0.00
tblVehicleEF	MH	1,005.77	947.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.63	4.30
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.11	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	9.9910e-003	8.9610e-003
tblVehicleEF	MH	6.9300e-004	0.00
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.11	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.03	3.3780e-003
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	3.12	0.35
tblVehicleEF	MH	6.40	0.00
tblVehicleEF	MH	1,005.77	947.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.74	4.51
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	1.67	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.55	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	9.9890e-003	8.9610e-003
tblVehicleEF	MH	7.0000e-004	0.00
tblVehicleEF	MH	1.67	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.55	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MHD	0.02	3.1150e-003
tblVehicleEF	MHD	6.1240e-003	7.3990e-003

tblVehicleEF	MHD	0.06	8.6500e-003
tblVehicleEF	MHD	0.43	0.34
tblVehicleEF	MHD	0.47	0.68
tblVehicleEF	MHD	6.54	1.04
tblVehicleEF	MHD	156.54	76.75
tblVehicleEF	MHD	1,067.94	1,019.74
tblVehicleEF	MHD	55.18	8.19
tblVehicleEF	MHD	1.06	0.76
tblVehicleEF	MHD	1.70	2.91
tblVehicleEF	MHD	3.7720e-003	2.9440e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	9.9000e-005
tblVehicleEF	MHD	3.6080e-003	2.8170e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	7.5200e-004	9.1000e-005
tblVehicleEF	MHD	1.8750e-003	7.7900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	9.0500e-004	3.7800e-004
tblVehicleEF	MHD	0.07	0.13
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.5050e-003	7.2800e-004
tblVehicleEF	MHD	0.01	9.7050e-003
tblVehicleEF	MHD	6.6700e-004	8.1000e-005
tblVehicleEF	MHD	1.8750e-003	7.7900e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	9.0500e-004	3.7800e-004
tblVehicleEF	MHD	0.08	0.15
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.44	0.05
tblVehicleEF	MHD	0.02	2.9530e-003
tblVehicleEF	MHD	6.1890e-003	7.4340e-003
tblVehicleEF	MHD	0.06	8.3580e-003
tblVehicleEF	MHD	0.31	0.28
tblVehicleEF	MHD	0.47	0.69
tblVehicleEF	MHD	6.24	1.00
tblVehicleEF	MHD	165.81	78.63
tblVehicleEF	MHD	1,067.94	1,019.75
tblVehicleEF	MHD	55.18	8.11
tblVehicleEF	MHD	1.10	0.77
tblVehicleEF	MHD	1.60	2.74
tblVehicleEF	MHD	3.1790e-003	2.4840e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	9.9000e-005
tblVehicleEF	MHD	3.0420e-003	2.3770e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	7.5200e-004	9.1000e-005
tblVehicleEF	MHD	3.6340e-003	1.4940e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.7950e-003	7.5400e-004
tblVehicleEF	MHD	0.07	0.13

tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.38	0.05
tblVehicleEF	MHD	1.5920e-003	7.4500e-004
tblVehicleEF	MHD	0.01	9.7050e-003
tblVehicleEF	MHD	6.6100e-004	8.0000e-005
tblVehicleEF	MHD	3.6340e-003	1.4940e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.7950e-003	7.5400e-004
tblVehicleEF	MHD	0.08	0.15
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.42	0.05
tblVehicleEF	MHD	0.02	3.3480e-003
tblVehicleEF	MHD	6.0850e-003	7.3770e-003
tblVehicleEF	MHD	0.06	8.7240e-003
tblVehicleEF	MHD	0.60	0.43
tblVehicleEF	MHD	0.47	0.68
tblVehicleEF	MHD	6.63	1.06
tblVehicleEF	MHD	143.73	74.14
tblVehicleEF	MHD	1,067.94	1,019.74
tblVehicleEF	MHD	55.18	8.21
tblVehicleEF	MHD	1.01	0.74
tblVehicleEF	MHD	1.68	2.88
tblVehicleEF	MHD	4.5890e-003	3.5790e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	9.9000e-005
tblVehicleEF	MHD	4.3910e-003	3.4240e-003

tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	7.5200e-004	9.1000e-005
tblVehicleEF	MHD	1.4650e-003	6.2400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	7.2400e-004	3.1000e-004
tblVehicleEF	MHD	0.07	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.3840e-003	7.0300e-004
tblVehicleEF	MHD	0.01	9.7050e-003
tblVehicleEF	MHD	6.6800e-004	8.1000e-005
tblVehicleEF	MHD	1.4650e-003	6.2400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	7.2400e-004	3.1000e-004
tblVehicleEF	MHD	0.08	0.15
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.44	0.05
tblVehicleEF	OBUS	0.01	9.0760e-003
tblVehicleEF	OBUS	9.4560e-003	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.50
tblVehicleEF	OBUS	0.63	1.11
tblVehicleEF	OBUS	6.57	2.65
tblVehicleEF	OBUS	74.57	74.12
tblVehicleEF	OBUS	1,103.17	1,438.90

tblVehicleEF	OBUS	70.73	21.29
tblVehicleEF	OBUS	0.39	0.51
tblVehicleEF	OBUS	1.35	2.11
tblVehicleEF	OBUS	1.7700e-004	2.4640e-003
tblVehicleEF	OBUS	7.1510e-003	0.05
tblVehicleEF	OBUS	8.2800e-004	1.9900e-004
tblVehicleEF	OBUS	1.6900e-004	2.3570e-003
tblVehicleEF	OBUS	6.8270e-003	0.05
tblVehicleEF	OBUS	7.6200e-004	1.8300e-004
tblVehicleEF	OBUS	2.2350e-003	2.6070e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.4600e-004	1.1090e-003
tblVehicleEF	OBUS	0.04	0.11
tblVehicleEF	OBUS	0.05	0.25
tblVehicleEF	OBUS	0.41	0.13
tblVehicleEF	OBUS	7.2400e-004	7.0700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2300e-004	2.1100e-004
tblVehicleEF	OBUS	2.2350e-003	2.6070e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4600e-004	1.1090e-003
tblVehicleEF	OBUS	0.06	0.13
tblVehicleEF	OBUS	0.05	0.25
tblVehicleEF	OBUS	0.45	0.14
tblVehicleEF	OBUS	0.01	9.0820e-003

tblVehicleEF	OBUS	9.6420e-003	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.12
tblVehicleEF	OBUS	6.15	2.48
tblVehicleEF	OBUS	77.97	75.01
tblVehicleEF	OBUS	1,103.17	1,438.93
tblVehicleEF	OBUS	70.73	21.00
tblVehicleEF	OBUS	0.40	0.51
tblVehicleEF	OBUS	1.26	1.97
tblVehicleEF	OBUS	1.4900e-004	2.0800e-003
tblVehicleEF	OBUS	7.1510e-003	0.05
tblVehicleEF	OBUS	8.2800e-004	1.9900e-004
tblVehicleEF	OBUS	1.4300e-004	1.9900e-003
tblVehicleEF	OBUS	6.8270e-003	0.05
tblVehicleEF	OBUS	7.6200e-004	1.8300e-004
tblVehicleEF	OBUS	4.1760e-003	4.7480e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.8320e-003	2.1400e-003
tblVehicleEF	OBUS	0.04	0.11
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	7.5600e-004	7.1500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.0800e-004
tblVehicleEF	OBUS	4.1760e-003	4.7480e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.8320e-003	2.1400e-003
tblVehicleEF	OBUS	0.06	0.13
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.43	0.14
tblVehicleEF	OBUS	0.01	9.0950e-003
tblVehicleEF	OBUS	9.4220e-003	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.54
tblVehicleEF	OBUS	0.63	1.10
tblVehicleEF	OBUS	6.63	2.68
tblVehicleEF	OBUS	69.87	72.89
tblVehicleEF	OBUS	1,103.17	1,438.89
tblVehicleEF	OBUS	70.73	21.33
tblVehicleEF	OBUS	0.37	0.50
tblVehicleEF	OBUS	1.34	2.09
tblVehicleEF	OBUS	2.1500e-004	2.9930e-003
tblVehicleEF	OBUS	7.1510e-003	0.05
tblVehicleEF	OBUS	8.2800e-004	1.9900e-004
tblVehicleEF	OBUS	2.0600e-004	2.8640e-003
tblVehicleEF	OBUS	6.8270e-003	0.05
tblVehicleEF	OBUS	7.6200e-004	1.8300e-004
tblVehicleEF	OBUS	1.9540e-003	2.4230e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.7300e-004	1.0650e-003

tblVehicleEF	OBUS	0.04	0.11
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	OBUS	6.7900e-004	6.9500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2400e-004	2.1100e-004
tblVehicleEF	OBUS	1.9540e-003	2.4230e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.7300e-004	1.0650e-003
tblVehicleEF	OBUS	0.06	0.13
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.45	0.14
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.01	6.8460e-003
tblVehicleEF	SBUS	0.06	6.8700e-003
tblVehicleEF	SBUS	7.81	2.99
tblVehicleEF	SBUS	0.66	0.54
tblVehicleEF	SBUS	6.73	0.94
tblVehicleEF	SBUS	1,154.91	368.45
tblVehicleEF	SBUS	1,108.94	1,125.84
tblVehicleEF	SBUS	53.24	6.04
tblVehicleEF	SBUS	10.58	3.66
tblVehicleEF	SBUS	4.99	5.01
tblVehicleEF	SBUS	0.01	4.3990e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	4.4200e-004	3.7000e-005
tblVehicleEF	SBUS	0.01	4.2080e-003
tblVehicleEF	SBUS	2.7000e-003	2.6520e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.4000e-005
tblVehicleEF	SBUS	4.5410e-003	1.2170e-003
tblVehicleEF	SBUS	0.03	7.9620e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	2.0600e-003	5.7700e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.01	3.5190e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.4900e-004	6.0000e-005
tblVehicleEF	SBUS	4.5410e-003	1.2170e-003
tblVehicleEF	SBUS	0.03	7.9620e-003
tblVehicleEF	SBUS	1.35	0.51
tblVehicleEF	SBUS	2.0600e-003	5.7700e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.01	6.9240e-003
tblVehicleEF	SBUS	0.05	5.7560e-003
tblVehicleEF	SBUS	7.67	2.94
tblVehicleEF	SBUS	0.67	0.55

tblVehicleEF	SBUS	4.88	0.68
tblVehicleEF	SBUS	1,207.92	379.26
tblVehicleEF	SBUS	1,108.94	1,125.85
tblVehicleEF	SBUS	53.24	5.60
tblVehicleEF	SBUS	10.92	3.76
tblVehicleEF	SBUS	4.69	4.71
tblVehicleEF	SBUS	0.01	3.7140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4200e-004	3.7000e-005
tblVehicleEF	SBUS	9.8070e-003	3.5540e-003
tblVehicleEF	SBUS	2.7000e-003	2.6520e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.4000e-005
tblVehicleEF	SBUS	8.2250e-003	2.2020e-003
tblVehicleEF	SBUS	0.03	8.4830e-003
tblVehicleEF	SBUS	0.93	0.36
tblVehicleEF	SBUS	3.8990e-003	1.0830e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	SBUS	0.01	3.6210e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.1800e-004	5.5000e-005
tblVehicleEF	SBUS	8.2250e-003	2.2020e-003
tblVehicleEF	SBUS	0.03	8.4830e-003
tblVehicleEF	SBUS	1.35	0.51

tblVehicleEF	SBUS	3.8990e-003	1.0830e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.01	6.8390e-003
tblVehicleEF	SBUS	0.07	7.1070e-003
tblVehicleEF	SBUS	7.99	3.04
tblVehicleEF	SBUS	0.66	0.54
tblVehicleEF	SBUS	7.09	0.98
tblVehicleEF	SBUS	1,081.70	353.53
tblVehicleEF	SBUS	1,108.94	1,125.84
tblVehicleEF	SBUS	53.24	6.11
tblVehicleEF	SBUS	10.11	3.53
tblVehicleEF	SBUS	4.94	4.97
tblVehicleEF	SBUS	0.01	5.3440e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4200e-004	3.7000e-005
tblVehicleEF	SBUS	0.01	5.1120e-003
tblVehicleEF	SBUS	2.7000e-003	2.6520e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.4000e-005
tblVehicleEF	SBUS	4.1410e-003	1.0800e-003
tblVehicleEF	SBUS	0.03	8.1800e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	1.9980e-003	5.5900e-004

tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	6.0000e-005
tblVehicleEF	SBUS	4.1410e-003	1.0800e-003
tblVehicleEF	SBUS	0.03	8.1800e-003
tblVehicleEF	SBUS	1.35	0.51
tblVehicleEF	SBUS	1.9980e-003	5.5900e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	UBUS	1.60	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.35	26.05
tblVehicleEF	UBUS	16.43	1.50
tblVehicleEF	UBUS	1,836.48	1,617.91
tblVehicleEF	UBUS	155.92	18.08
tblVehicleEF	UBUS	5.46	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9350e-003
tblVehicleEF	UBUS	1.6630e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.06	2.7930e-003

tblVehicleEF	UBUS	1.5380e-003	1.4800e-004
tblVehicleEF	UBUS	0.01	1.4100e-003
tblVehicleEF	UBUS	0.13	7.8440e-003
tblVehicleEF	UBUS	5.4970e-003	5.9600e-004
tblVehicleEF	UBUS	0.64	0.05
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.28	0.07
tblVehicleEF	UBUS	0.01	4.8660e-003
tblVehicleEF	UBUS	1.8570e-003	1.7900e-004
tblVehicleEF	UBUS	0.01	1.4100e-003
tblVehicleEF	UBUS	0.13	7.8440e-003
tblVehicleEF	UBUS	5.4970e-003	5.9600e-004
tblVehicleEF	UBUS	2.30	3.42
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.40	0.08
tblVehicleEF	UBUS	1.61	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.64	26.05
tblVehicleEF	UBUS	14.18	1.28
tblVehicleEF	UBUS	1,836.48	1,617.92
tblVehicleEF	UBUS	155.92	17.70
tblVehicleEF	UBUS	5.09	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9350e-003
tblVehicleEF	UBUS	1.6630e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04

tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.06	2.7930e-003
tblVehicleEF	UBUS	1.5380e-003	1.4800e-004
tblVehicleEF	UBUS	0.02	2.5360e-003
tblVehicleEF	UBUS	0.17	9.6870e-003
tblVehicleEF	UBUS	0.01	1.2530e-003
tblVehicleEF	UBUS	0.65	0.05
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.17	0.06
tblVehicleEF	UBUS	0.01	4.8660e-003
tblVehicleEF	UBUS	1.8170e-003	1.7500e-004
tblVehicleEF	UBUS	0.02	2.5360e-003
tblVehicleEF	UBUS	0.17	9.6870e-003
tblVehicleEF	UBUS	0.01	1.2530e-003
tblVehicleEF	UBUS	2.31	3.42
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.28	0.07
tblVehicleEF	UBUS	1.60	3.35
tblVehicleEF	UBUS	0.10	0.02
tblVehicleEF	UBUS	10.37	26.05
tblVehicleEF	UBUS	16.61	1.49
tblVehicleEF	UBUS	1,836.48	1,617.92
tblVehicleEF	UBUS	155.92	18.06
tblVehicleEF	UBUS	5.42	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9350e-003

tblVehicleEF	UBUS	1.6630e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.06	2.7930e-003
tblVehicleEF	UBUS	1.5380e-003	1.4800e-004
tblVehicleEF	UBUS	0.01	1.5280e-003
tblVehicleEF	UBUS	0.16	9.1940e-003
tblVehicleEF	UBUS	4.7660e-003	6.3600e-004
tblVehicleEF	UBUS	0.64	0.05
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.29	0.07
tblVehicleEF	UBUS	0.01	4.8660e-003
tblVehicleEF	UBUS	1.8600e-003	1.7900e-004
tblVehicleEF	UBUS	0.01	1.5280e-003
tblVehicleEF	UBUS	0.16	9.1940e-003
tblVehicleEF	UBUS	4.7660e-003	6.3600e-004
tblVehicleEF	UBUS	2.30	3.42
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.42	0.08
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	12.50
tblVehicleTrips	CW_TL	16.60	12.50
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	1.99
tblVehicleTrips	ST_TR	1.68	0.94
tblVehicleTrips	SU_TR	0.68	5.00
tblVehicleTrips	SU_TR	1.68	0.87
tblVehicleTrips	WD_TR	6.97	3.90
tblVehicleTrips	WD_TR	1.68	0.95

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					
2019	0.0000	0.0000	0.0000	0.0000	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					
2019	0.0000	0.0000	0.0000	0.0000	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**

Seaton Commerce Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Energy	9.0100e-003	0.0819	0.0688	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003	0.0000	360.8679	360.8679	0.0129	3.9600e-003	362.3698
Mobile	0.1475	0.1351	1.7589	4.9000e-003	0.5268	2.7300e-003	0.5296	0.1398	2.5100e-003	0.1423	0.0000	449.3737	449.3737	0.0133	0.0000	449.7064
Offroad	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Waste						0.0000	0.0000		0.0000	0.0000	41.7654	0.0000	41.7654	2.4683	0.0000	103.4720
Water						0.0000	0.0000		0.0000	0.0000	15.0948	197.3972	212.4920	1.5585	0.0383	262.8670
Total	**1.0379**	**0.5431**	**1.9761**	**5.9700e-003**	**0.5268**	**0.0197**	**0.5465**	**0.1398**	**0.0186**	**0.1584**	**56.8602**	**1,058.4830**	**1,115.3432**	**4.0695**	**0.0423**	**1,229.6712**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Energy	9.0100e-003	0.0819	0.0688	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003	0.0000	360.8679	360.8679	0.0129	3.9600e-003	362.3698
Mobile	0.1475	0.1351	1.7589	4.9000e-003	0.5268	2.7300e-003	0.5296	0.1398	2.5100e-003	0.1423	0.0000	449.3737	449.3737	0.0133	0.0000	449.7064
Offroad	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Waste						0.0000	0.0000		0.0000	0.0000	41.7654	0.0000	41.7654	2.4683	0.0000	103.4720
Water						0.0000	0.0000		0.0000	0.0000	15.0948	197.3972	212.4920	1.5585	0.0383	262.8670
Total	**1.0379**	**0.5431**	**1.9761**	**5.9700e-003**	**0.5268**	**0.0197**	**0.5465**	**0.1398**	**0.0186**	**0.1584**	**56.8602**	**1,058.4830**	**1,115.3432**	**4.0695**	**0.0423**	**1,229.6712**

	ROG	NOx	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	5/1/2019	5/1/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.42

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
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.1475	0.1351	1.7589	4.9000e-003	0.5268	2.7300e-003	0.5296	0.1398	2.5100e-003	0.1423	0.0000	449.3737	449.3737	0.0133	0.0000	449.7064
Unmitigated	0.1475	0.1351	1.7589	4.9000e-003	0.5268	2.7300e-003	0.5296	0.1398	2.5100e-003	0.1423	0.0000	449.3737	449.3737	0.0133	0.0000	449.7064

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	160.49	81.89	205.76	708,558	708,558
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	156.37	154.73	143.20	701,867	701,867
Total	316.86	236.62	348.96	1,410,426	1,410,426

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	12.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	12.50	8.40	6.90	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	0.609351	0.043543	0.208819	0.138287	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Non-Asphalt Surfaces	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120
Parking Lot	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120
Unrefrigerated Warehouse-No Rail	0.609351	0.043543	0.208819	0.138287	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	271.6895	271.6895	0.0112	2.3200e-003	272.6615
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	271.6895	271.6895	0.0112	2.3200e-003	272.6615
NaturalGas Mitigated	9.0100e-003	0.0819	0.0688	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003	0.0000	89.1784	89.1784	1.7100e-003	1.6300e-003	89.7083
NaturalGas Unmitigated	9.0100e-003	0.0819	0.0688	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003	0.0000	89.1784	89.1784	1.7100e-003	1.6300e-003	89.7083

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	1.337e+006	7.2100e-003	0.0655	0.0551	3.9000e-004		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	71.3472	71.3472	1.3700e-003	1.3100e-003	71.7712
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	334144	1.8000e-003	0.0164	0.0138	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.8312	17.8312	3.4000e-004	3.3000e-004	17.9372
Total		**9.0100e-003**	**0.0819**	**0.0688**	**4.9000e-004**		**6.2200e-003**	**6.2200e-003**		**6.2200e-003**	**6.2200e-003**	**0.0000**	**89.1784**	**89.1784**	**1.7100e-003**	**1.6400e-003**	**89.7083**

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	1.337e+006	7.2100e-003	0.0655	0.0551	3.9000e-004		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	71.3472	71.3472	1.3700e-003	1.3100e-003	71.7712
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	334144	1.8000e-003	0.0164	0.0138	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.8312	17.8312	3.4000e-004	3.3000e-004	17.9372
Total		**9.0100e-003**	**0.0819**	**0.0688**	**4.9000e-004**		**6.2200e-003**	**6.2200e-003**		**6.2200e-003**	**6.2200e-003**	**0.0000**	**89.1784**	**89.1784**	**1.7100e-003**	**1.6400e-003**	**89.7083**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	417683	133.0826	5.4900e-003	1.1400e-003	133.5588
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	46557.3	14.8342	6.1000e-004	1.3000e-004	14.8872
Unrefrigerated Warehouse-No Rail	388463	123.7727	5.1100e-003	1.0600e-003	124.2155
Total		**271.6895**	**0.0112**	**2.3300e-003**	**272.6615**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	417683	133.0826	5.4900e-003	1.1400e-003	133.5588
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	46557.3	14.8342	6.1000e-004	1.3000e-004	14.8872
Unrefrigerated Warehouse-No Rail	388463	123.7727	5.1100e-003	1.0600e-003	124.2155
Total		**271.6895**	**0.0112**	**2.3300e-003**	**272.6615**

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	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Unmitigated	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0981					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.6000e-004	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Total	**0.8546**	**5.0000e-005**	**5.9100e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0114**	**0.0114**	**3.0000e-005**	**0.0000**	**0.0122**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0981					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.6000e-004	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Total	**0.8546**	**5.0000e-005**	**5.9100e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0114**	**0.0114**	**3.0000e-005**	**0.0000**	**0.0122**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	212.4920	1.5585	0.0383	262.8670
Unmitigated	212.4920	1.5585	0.0383	262.8670

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	9.51594 / 0	42.4984	0.3117	7.6600e-003	52.5734
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	38.0637 / 0	169.9936	1.2468	0.0306	210.2936
Total		**212.4920**	**1.5585**	**0.0383**	**262.8670**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	9.51594 / 0	42.4984	0.3117	7.6600e-003	52.5734
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	38.0637 / 0	169.9936	1.2468	0.0306	210.2936
Total		**212.4920**	**1.5585**	**0.0383**	**262.8670**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.7654	2.4683	0.0000	103.4720
Unmitigated	41.7654	2.4683	0.0000	103.4720

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	51.03	10.3586	0.6122	0.0000	25.6631
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	154.72	31.4068	1.8561	0.0000	77.8089
Total		**41.7654**	**2.4683**	**0.0000**	**103.4720**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	51.03	10.3586	0.6122	0.0000	25.6631
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	154.72	31.4068	1.8561	0.0000	77.8089
Total		**41.7654**	**2.4683**	**0.0000**	**103.4720**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	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	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Total	**0.0268**	**0.3261**	**0.1424**	**5.8000e-004**		**0.0107**	**0.0107**		**9.8400e-003**	**9.8400e-003**	**0.0000**	**50.8328**	**50.8328**	**0.0164**	**0.0000**	**51.2438**

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

APPENDIX 3.3:

CALEEMOD ANNUAL OPERATIONAL (TRUCK) EMISSIONS MODEL OUTPUTS

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Seaton Commerce Center (Operations - Trucks)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	41.15	1000sqft	0.94	41,151.00	0
Unrefrigerated Warehouse-No Rail	164.60	1000sqft	3.78	164,603.00	0
Other Non-Asphalt Surfaces	59.75	1000sqft	1.37	59,752.00	0
Parking Lot	195.00	Space	3.05	133,021.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2020
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

Seaton Commerce Center (Operations - Trucks) - Riverside-South Coast County, Annual

Project Characteristics -

Land Use - As per the Site Plan, the total Project Area is 9.15 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 TIA.

Operational Off-Road Equipment - Based on the latest available information from SCAQMD.

Fleet Mix - Passenger Car Trips split proportionally between LDA, LDT1, LDT2, and MDV categories.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
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tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
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tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	5.3390e-003	0.00
tblFleetMix	LHD2	5.3390e-003	0.00
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tblFleetMix	MH	1.1200e-003	0.00
tblFleetMix	MHD	0.02	0.18
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	9.5900e-004	0.00
tblFleetMix	SBUS	9.5900e-004	0.00
tblFleetMix	UBUS	1.2130e-003	0.00
tblFleetMix	UBUS	1.2130e-003	0.00
tblLandUse	LandUseSquareFeet	78,000.00	133,021.00
tblLandUse	LotAcreage	1.75	3.05
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
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tblVehicleEF	HHD	0.46	0.42

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tblVehicleEF	LDT2	2.3200e-003	2.0490e-003
tblVehicleEF	LDT2	1.4740e-003	1.4490e-003
tblVehicleEF	LDT2	2.1330e-003	1.8840e-003

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.11	0.36
tblVehicleEF	LDT2	3.6730e-003	3.4700e-003
tblVehicleEF	LDT2	8.6600e-004	7.3400e-004
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.12	0.40
tblVehicleEF	LDT2	6.9350e-003	5.4290e-003
tblVehicleEF	LDT2	7.1890e-003	0.07
tblVehicleEF	LDT2	1.00	1.32
tblVehicleEF	LDT2	1.51	2.51
tblVehicleEF	LDT2	398.95	375.76
tblVehicleEF	LDT2	83.75	73.47
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	1.6030e-003	1.5740e-003
tblVehicleEF	LDT2	2.3200e-003	2.0490e-003
tblVehicleEF	LDT2	1.4740e-003	1.4490e-003
tblVehicleEF	LDT2	2.1330e-003	1.8840e-003
tblVehicleEF	LDT2	0.14	0.23
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.17
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	3.9980e-003	3.7180e-003
tblVehicleEF	LDT2	8.6300e-004	7.2700e-004
tblVehicleEF	LDT2	0.14	0.23
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.17
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	5.8750e-003	4.5860e-003
tblVehicleEF	LDT2	8.5090e-003	0.08
tblVehicleEF	LDT2	0.76	1.01
tblVehicleEF	LDT2	1.74	2.91
tblVehicleEF	LDT2	356.95	343.08
tblVehicleEF	LDT2	83.75	74.29
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	1.6030e-003	1.5740e-003
tblVehicleEF	LDT2	2.3200e-003	2.0490e-003
tblVehicleEF	LDT2	1.4740e-003	1.4490e-003
tblVehicleEF	LDT2	2.1330e-003	1.8840e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02

tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	3.5750e-003	3.3940e-003
tblVehicleEF	LDT2	8.6700e-004	7.3500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.13	0.41
tblVehicleEF	LHD1	5.6490e-003	4.9850e-003
tblVehicleEF	LHD1	0.01	5.8540e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.03	0.81
tblVehicleEF	LHD1	2.54	1.00
tblVehicleEF	LHD1	9.27	9.49
tblVehicleEF	LHD1	612.92	646.12
tblVehicleEF	LHD1	30.90	10.74
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.35	1.76
tblVehicleEF	LHD1	9.6900e-004	9.6000e-004
tblVehicleEF	LHD1	0.01	9.9920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.5200e-004
tblVehicleEF	LHD1	9.2700e-004	9.1800e-004
tblVehicleEF	LHD1	2.5280e-003	2.4980e-003

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.3200e-004
tblVehicleEF	LHD1	3.9460e-003	3.3400e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9130e-003	1.6150e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.31	0.52
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2860e-003
tblVehicleEF	LHD1	3.5800e-004	1.0600e-004
tblVehicleEF	LHD1	3.9460e-003	3.3400e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9130e-003	1.6150e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.52
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.6490e-003	4.9980e-003
tblVehicleEF	LHD1	0.01	5.9460e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.05	0.82
tblVehicleEF	LHD1	2.42	0.95
tblVehicleEF	LHD1	9.27	9.49
tblVehicleEF	LHD1	612.92	646.14

tblVehicleEF	LHD1	30.90	10.66
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.21	1.65
tblVehicleEF	LHD1	9.6900e-004	9.6000e-004
tblVehicleEF	LHD1	0.01	9.9920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.5200e-004
tblVehicleEF	LHD1	9.2700e-004	9.1800e-004
tblVehicleEF	LHD1	2.5280e-003	2.4980e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.3200e-004
tblVehicleEF	LHD1	7.3960e-003	6.2670e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6890e-003	3.1330e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.31	0.53
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2860e-003
tblVehicleEF	LHD1	3.5500e-004	1.0500e-004
tblVehicleEF	LHD1	7.3960e-003	6.2670e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6890e-003	3.1330e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.53

tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.6490e-003	4.9840e-003
tblVehicleEF	LHD1	0.01	5.8410e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.03	0.81
tblVehicleEF	LHD1	2.54	1.00
tblVehicleEF	LHD1	9.27	9.49
tblVehicleEF	LHD1	612.92	646.11
tblVehicleEF	LHD1	30.90	10.75
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.32	1.74
tblVehicleEF	LHD1	9.6900e-004	9.6000e-004
tblVehicleEF	LHD1	0.01	9.9920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.5200e-004
tblVehicleEF	LHD1	9.2700e-004	9.1800e-004
tblVehicleEF	LHD1	2.5280e-003	2.4980e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.3200e-004
tblVehicleEF	LHD1	3.5540e-003	2.9950e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7480e-003	1.4690e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.33	0.56
tblVehicleEF	LHD1	0.28	0.08

tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2860e-003
tblVehicleEF	LHD1	3.5800e-004	1.0600e-004
tblVehicleEF	LHD1	3.5540e-003	2.9950e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7480e-003	1.4690e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.56
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD2	3.8330e-003	3.2480e-003
tblVehicleEF	LHD2	5.1000e-003	4.1830e-003
tblVehicleEF	LHD2	9.1950e-003	9.6050e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.58
tblVehicleEF	LHD2	1.23	0.58
tblVehicleEF	LHD2	14.53	14.93
tblVehicleEF	LHD2	609.83	645.21
tblVehicleEF	LHD2	23.90	7.43
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.94	1.95
tblVehicleEF	LHD2	1.3510e-003	1.4300e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1000e-004	1.2000e-004
tblVehicleEF	LHD2	1.2930e-003	1.3680e-003
tblVehicleEF	LHD2	2.6930e-003	2.7090e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.1000e-004
tblVehicleEF	LHD2	1.5990e-003	1.7630e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.1500e-004	8.6600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.26
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	1.4200e-004	1.4300e-004
tblVehicleEF	LHD2	5.9300e-003	6.2170e-003
tblVehicleEF	LHD2	2.6200e-004	7.3000e-005
tblVehicleEF	LHD2	1.5990e-003	1.7630e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.6600e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.26
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	3.8330e-003	3.2560e-003
tblVehicleEF	LHD2	5.1600e-003	4.2160e-003
tblVehicleEF	LHD2	8.8690e-003	9.2830e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.58
tblVehicleEF	LHD2	1.18	0.55
tblVehicleEF	LHD2	14.53	14.93
tblVehicleEF	LHD2	609.83	645.22

tblVehicleEF	LHD2	23.90	7.38
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.83	1.84
tblVehicleEF	LHD2	1.3510e-003	1.4300e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1000e-004	1.2000e-004
tblVehicleEF	LHD2	1.2930e-003	1.3680e-003
tblVehicleEF	LHD2	2.6930e-003	2.7090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.1000e-004
tblVehicleEF	LHD2	3.0260e-003	3.3310e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5540e-003	1.6720e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	1.4200e-004	1.4300e-004
tblVehicleEF	LHD2	5.9300e-003	6.2170e-003
tblVehicleEF	LHD2	2.6100e-004	7.3000e-005
tblVehicleEF	LHD2	3.0260e-003	3.3310e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5540e-003	1.6720e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.27

tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	LHD2	3.8330e-003	3.2470e-003
tblVehicleEF	LHD2	5.0860e-003	4.1740e-003
tblVehicleEF	LHD2	9.2490e-003	9.6750e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.57
tblVehicleEF	LHD2	1.24	0.59
tblVehicleEF	LHD2	14.53	14.93
tblVehicleEF	LHD2	609.83	645.21
tblVehicleEF	LHD2	23.90	7.44
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.92	1.93
tblVehicleEF	LHD2	1.3510e-003	1.4300e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1000e-004	1.2000e-004
tblVehicleEF	LHD2	1.2930e-003	1.3680e-003
tblVehicleEF	LHD2	2.6930e-003	2.7090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.1000e-004
tblVehicleEF	LHD2	1.2860e-003	1.4040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.9100e-004	7.2000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.12	0.05

tblVehicleEF	LHD2	1.4200e-004	1.4300e-004
tblVehicleEF	LHD2	5.9300e-003	6.2170e-003
tblVehicleEF	LHD2	2.6200e-004	7.4000e-005
tblVehicleEF	LHD2	1.2860e-003	1.4040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.9100e-004	7.2000e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.10	0.28
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.93	19.98
tblVehicleEF	MCY	9.66	8.54
tblVehicleEF	MCY	164.88	208.03
tblVehicleEF	MCY	46.70	61.07
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7160e-003	1.7000e-003
tblVehicleEF	MCY	3.4600e-003	2.8960e-003
tblVehicleEF	MCY	1.6070e-003	1.5920e-003
tblVehicleEF	MCY	3.2650e-003	2.7310e-003
tblVehicleEF	MCY	1.68	1.65
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.93	0.90
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.58	1.92
tblVehicleEF	MCY	2.09	1.84

tblVehicleEF	MCY	2.0370e-003	2.0590e-003
tblVehicleEF	MCY	6.8600e-004	6.0400e-004
tblVehicleEF	MCY	1.68	1.65
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.93	0.90
tblVehicleEF	MCY	2.66	2.67
tblVehicleEF	MCY	0.58	1.92
tblVehicleEF	MCY	2.27	2.00
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.66	20.64
tblVehicleEF	MCY	9.11	8.00
tblVehicleEF	MCY	164.88	208.99
tblVehicleEF	MCY	46.70	59.55
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7160e-003	1.7000e-003
tblVehicleEF	MCY	3.4600e-003	2.8960e-003
tblVehicleEF	MCY	1.6070e-003	1.5920e-003
tblVehicleEF	MCY	3.2650e-003	2.7310e-003
tblVehicleEF	MCY	3.35	3.26
tblVehicleEF	MCY	1.25	1.23
tblVehicleEF	MCY	2.10	2.04
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.58	1.91
tblVehicleEF	MCY	1.87	1.64
tblVehicleEF	MCY	2.0470e-003	2.0680e-003
tblVehicleEF	MCY	6.7100e-004	5.8900e-004

tblVehicleEF	MCY	3.35	3.26
tblVehicleEF	MCY	1.25	1.23
tblVehicleEF	MCY	2.10	2.04
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.58	1.91
tblVehicleEF	MCY	2.03	1.78
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.43	19.49
tblVehicleEF	MCY	9.60	8.46
tblVehicleEF	MCY	164.88	207.22
tblVehicleEF	MCY	46.70	60.96
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	1.7160e-003	1.7000e-003
tblVehicleEF	MCY	3.4600e-003	2.8960e-003
tblVehicleEF	MCY	1.6070e-003	1.5920e-003
tblVehicleEF	MCY	3.2650e-003	2.7310e-003
tblVehicleEF	MCY	1.60	1.58
tblVehicleEF	MCY	1.06	1.04
tblVehicleEF	MCY	0.75	0.73
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.66	2.18
tblVehicleEF	MCY	2.10	1.84
tblVehicleEF	MCY	2.0290e-003	2.0510e-003
tblVehicleEF	MCY	6.8600e-004	6.0300e-004
tblVehicleEF	MCY	1.60	1.58
tblVehicleEF	MCY	1.06	1.04

tblVehicleEF	MCY	0.75	0.73
tblVehicleEF	MCY	2.66	2.66
tblVehicleEF	MCY	0.66	2.18
tblVehicleEF	MCY	2.28	2.00
tblVehicleEF	MDV	0.01	6.5360e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.58	1.34
tblVehicleEF	MDV	3.47	3.43
tblVehicleEF	MDV	501.88	433.73
tblVehicleEF	MDV	112.78	91.53
tblVehicleEF	MDV	0.19	0.14
tblVehicleEF	MDV	1.7360e-003	1.6390e-003
tblVehicleEF	MDV	2.5110e-003	2.1480e-003
tblVehicleEF	MDV	1.6010e-003	1.5130e-003
tblVehicleEF	MDV	2.3110e-003	1.9770e-003
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	5.0330e-003	4.2890e-003
tblVehicleEF	MDV	1.1890e-003	9.0600e-004
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04

tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.30	0.53
tblVehicleEF	MDV	0.02	7.3660e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.91	1.62
tblVehicleEF	MDV	3.08	3.03
tblVehicleEF	MDV	544.80	460.37
tblVehicleEF	MDV	112.78	90.68
tblVehicleEF	MDV	0.18	0.13
tblVehicleEF	MDV	1.7360e-003	1.6390e-003
tblVehicleEF	MDV	2.5110e-003	2.1480e-003
tblVehicleEF	MDV	1.6010e-003	1.5130e-003
tblVehicleEF	MDV	2.3110e-003	1.9770e-003
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.24	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.24	0.42
tblVehicleEF	MDV	5.4670e-003	4.5520e-003
tblVehicleEF	MDV	1.1820e-003	8.9700e-004
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.24	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.26	0.46

tblVehicleEF	MDV	0.01	6.2920e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.48	1.25
tblVehicleEF	MDV	3.54	3.50
tblVehicleEF	MDV	489.12	425.79
tblVehicleEF	MDV	112.78	91.69
tblVehicleEF	MDV	0.18	0.13
tblVehicleEF	MDV	1.7360e-003	1.6390e-003
tblVehicleEF	MDV	2.5110e-003	2.1480e-003
tblVehicleEF	MDV	1.6010e-003	1.5130e-003
tblVehicleEF	MDV	2.3110e-003	1.9770e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.58
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	4.9040e-003	4.2100e-003
tblVehicleEF	MDV	1.1910e-003	9.0700e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.13	0.58
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MH	0.03	3.3780e-003
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	3.14	0.35
tblVehicleEF	MH	6.37	0.00
tblVehicleEF	MH	1,005.77	947.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.76	4.56
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	1.64	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	9.9900e-003	8.9610e-003
tblVehicleEF	MH	7.0000e-004	0.00
tblVehicleEF	MH	1.64	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.03	3.3780e-003
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	3.24	0.35
tblVehicleEF	MH	5.95	0.00
tblVehicleEF	MH	1,005.77	947.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.63	4.30
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.11	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	9.9910e-003	8.9610e-003
tblVehicleEF	MH	6.9300e-004	0.00
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.11	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.03	3.3780e-003
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	3.12	0.35
tblVehicleEF	MH	6.40	0.00
tblVehicleEF	MH	1,005.77	947.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.74	4.51
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	1.67	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.55	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	9.9890e-003	8.9610e-003
tblVehicleEF	MH	7.0000e-004	0.00
tblVehicleEF	MH	1.67	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.55	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MHD	0.02	3.1150e-003
tblVehicleEF	MHD	6.1240e-003	7.3990e-003

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tblVehicleEF	MHD	0.47	0.68
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tblVehicleEF	MHD	156.54	76.75
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tblVehicleEF	MHD	8.1800e-004	9.9000e-005
tblVehicleEF	MHD	3.6080e-003	2.8170e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	7.5200e-004	9.1000e-005
tblVehicleEF	MHD	1.8750e-003	7.7900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	9.0500e-004	3.7800e-004
tblVehicleEF	MHD	0.07	0.13
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.5050e-003	7.2800e-004
tblVehicleEF	MHD	0.01	9.7050e-003
tblVehicleEF	MHD	6.6700e-004	8.1000e-005
tblVehicleEF	MHD	1.8750e-003	7.7900e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	9.0500e-004	3.7800e-004
tblVehicleEF	MHD	0.08	0.15
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.44	0.05
tblVehicleEF	MHD	0.02	2.9530e-003
tblVehicleEF	MHD	6.1890e-003	7.4340e-003
tblVehicleEF	MHD	0.06	8.3580e-003
tblVehicleEF	MHD	0.31	0.28
tblVehicleEF	MHD	0.47	0.69
tblVehicleEF	MHD	6.24	1.00
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tblVehicleEF	MHD	1,067.94	1,019.75
tblVehicleEF	MHD	55.18	8.11
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tblVehicleEF	MHD	3.1790e-003	2.4840e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	9.9000e-005
tblVehicleEF	MHD	3.0420e-003	2.3770e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	7.5200e-004	9.1000e-005
tblVehicleEF	MHD	3.6340e-003	1.4940e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.7950e-003	7.5400e-004
tblVehicleEF	MHD	0.07	0.13

tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.38	0.05
tblVehicleEF	MHD	1.5920e-003	7.4500e-004
tblVehicleEF	MHD	0.01	9.7050e-003
tblVehicleEF	MHD	6.6100e-004	8.0000e-005
tblVehicleEF	MHD	3.6340e-003	1.4940e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.7950e-003	7.5400e-004
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tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.42	0.05
tblVehicleEF	MHD	0.02	3.3480e-003
tblVehicleEF	MHD	6.0850e-003	7.3770e-003
tblVehicleEF	MHD	0.06	8.7240e-003
tblVehicleEF	MHD	0.60	0.43
tblVehicleEF	MHD	0.47	0.68
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tblVehicleEF	MHD	1.68	2.88
tblVehicleEF	MHD	4.5890e-003	3.5790e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	9.9000e-005
tblVehicleEF	MHD	4.3910e-003	3.4240e-003

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tblVehicleEF	MHD	7.5200e-004	9.1000e-005
tblVehicleEF	MHD	1.4650e-003	6.2400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	7.2400e-004	3.1000e-004
tblVehicleEF	MHD	0.07	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.3840e-003	7.0300e-004
tblVehicleEF	MHD	0.01	9.7050e-003
tblVehicleEF	MHD	6.6800e-004	8.1000e-005
tblVehicleEF	MHD	1.4650e-003	6.2400e-004
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tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	7.2400e-004	3.1000e-004
tblVehicleEF	MHD	0.08	0.15
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tblVehicleEF	OBUS	0.01	9.0760e-003
tblVehicleEF	OBUS	9.4560e-003	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.50
tblVehicleEF	OBUS	0.63	1.11
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tblVehicleEF	OBUS	1,103.17	1,438.90

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tblVehicleEF	OBUS	1.7700e-004	2.4640e-003
tblVehicleEF	OBUS	7.1510e-003	0.05
tblVehicleEF	OBUS	8.2800e-004	1.9900e-004
tblVehicleEF	OBUS	1.6900e-004	2.3570e-003
tblVehicleEF	OBUS	6.8270e-003	0.05
tblVehicleEF	OBUS	7.6200e-004	1.8300e-004
tblVehicleEF	OBUS	2.2350e-003	2.6070e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.4600e-004	1.1090e-003
tblVehicleEF	OBUS	0.04	0.11
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tblVehicleEF	OBUS	0.41	0.13
tblVehicleEF	OBUS	7.2400e-004	7.0700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2300e-004	2.1100e-004
tblVehicleEF	OBUS	2.2350e-003	2.6070e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4600e-004	1.1090e-003
tblVehicleEF	OBUS	0.06	0.13
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tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	1,103.17	1,438.93
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tblVehicleEF	OBUS	1.26	1.97
tblVehicleEF	OBUS	1.4900e-004	2.0800e-003
tblVehicleEF	OBUS	7.1510e-003	0.05
tblVehicleEF	OBUS	8.2800e-004	1.9900e-004
tblVehicleEF	OBUS	1.4300e-004	1.9900e-003
tblVehicleEF	OBUS	6.8270e-003	0.05
tblVehicleEF	OBUS	7.6200e-004	1.8300e-004
tblVehicleEF	OBUS	4.1760e-003	4.7480e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.8320e-003	2.1400e-003
tblVehicleEF	OBUS	0.04	0.11
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tblVehicleEF	OBUS	0.39	0.13
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tblVehicleEF	OBUS	4.1760e-003	4.7480e-003

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tblVehicleEF	OBUS	7.1510e-003	0.05
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tblVehicleEF	OBUS	0.05	0.07
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	4.4200e-004	3.7000e-005
tblVehicleEF	SBUS	0.01	4.2080e-003
tblVehicleEF	SBUS	2.7000e-003	2.6520e-003
tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	2.7000e-003	2.6520e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.4000e-005
tblVehicleEF	SBUS	8.2250e-003	2.2020e-003
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tblVehicleEF	SBUS	0.01	3.6210e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.1800e-004	5.5000e-005
tblVehicleEF	SBUS	8.2250e-003	2.2020e-003
tblVehicleEF	SBUS	0.03	8.4830e-003
tblVehicleEF	SBUS	1.35	0.51

tblVehicleEF	SBUS	3.8990e-003	1.0830e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.01	6.8390e-003
tblVehicleEF	SBUS	0.07	7.1070e-003
tblVehicleEF	SBUS	7.99	3.04
tblVehicleEF	SBUS	0.66	0.54
tblVehicleEF	SBUS	7.09	0.98
tblVehicleEF	SBUS	1,081.70	353.53
tblVehicleEF	SBUS	1,108.94	1,125.84
tblVehicleEF	SBUS	53.24	6.11
tblVehicleEF	SBUS	10.11	3.53
tblVehicleEF	SBUS	4.94	4.97
tblVehicleEF	SBUS	0.01	5.3440e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4200e-004	3.7000e-005
tblVehicleEF	SBUS	0.01	5.1120e-003
tblVehicleEF	SBUS	2.7000e-003	2.6520e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.4000e-005
tblVehicleEF	SBUS	4.1410e-003	1.0800e-003
tblVehicleEF	SBUS	0.03	8.1800e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	1.9980e-003	5.5900e-004

tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	6.0000e-005
tblVehicleEF	SBUS	4.1410e-003	1.0800e-003
tblVehicleEF	SBUS	0.03	8.1800e-003
tblVehicleEF	SBUS	1.35	0.51
tblVehicleEF	SBUS	1.9980e-003	5.5900e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	UBUS	1.60	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.35	26.05
tblVehicleEF	UBUS	16.43	1.50
tblVehicleEF	UBUS	1,836.48	1,617.91
tblVehicleEF	UBUS	155.92	18.08
tblVehicleEF	UBUS	5.46	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9350e-003
tblVehicleEF	UBUS	1.6630e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.06	2.7930e-003

tblVehicleEF	UBUS	1.5380e-003	1.4800e-004
tblVehicleEF	UBUS	0.01	1.4100e-003
tblVehicleEF	UBUS	0.13	7.8440e-003
tblVehicleEF	UBUS	5.4970e-003	5.9600e-004
tblVehicleEF	UBUS	0.64	0.05
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.28	0.07
tblVehicleEF	UBUS	0.01	4.8660e-003
tblVehicleEF	UBUS	1.8570e-003	1.7900e-004
tblVehicleEF	UBUS	0.01	1.4100e-003
tblVehicleEF	UBUS	0.13	7.8440e-003
tblVehicleEF	UBUS	5.4970e-003	5.9600e-004
tblVehicleEF	UBUS	2.30	3.42
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.40	0.08
tblVehicleEF	UBUS	1.61	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.64	26.05
tblVehicleEF	UBUS	14.18	1.28
tblVehicleEF	UBUS	1,836.48	1,617.92
tblVehicleEF	UBUS	155.92	17.70
tblVehicleEF	UBUS	5.09	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9350e-003
tblVehicleEF	UBUS	1.6630e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04

tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.06	2.7930e-003
tblVehicleEF	UBUS	1.5380e-003	1.4800e-004
tblVehicleEF	UBUS	0.02	2.5360e-003
tblVehicleEF	UBUS	0.17	9.6870e-003
tblVehicleEF	UBUS	0.01	1.2530e-003
tblVehicleEF	UBUS	0.65	0.05
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.17	0.06
tblVehicleEF	UBUS	0.01	4.8660e-003
tblVehicleEF	UBUS	1.8170e-003	1.7500e-004
tblVehicleEF	UBUS	0.02	2.5360e-003
tblVehicleEF	UBUS	0.17	9.6870e-003
tblVehicleEF	UBUS	0.01	1.2530e-003
tblVehicleEF	UBUS	2.31	3.42
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.28	0.07
tblVehicleEF	UBUS	1.60	3.35
tblVehicleEF	UBUS	0.10	0.02
tblVehicleEF	UBUS	10.37	26.05
tblVehicleEF	UBUS	16.61	1.49
tblVehicleEF	UBUS	1,836.48	1,617.92
tblVehicleEF	UBUS	155.92	18.06
tblVehicleEF	UBUS	5.42	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9350e-003

tblVehicleEF	UBUS	1.6630e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.06	2.7930e-003
tblVehicleEF	UBUS	1.5380e-003	1.4800e-004
tblVehicleEF	UBUS	0.01	1.5280e-003
tblVehicleEF	UBUS	0.16	9.1940e-003
tblVehicleEF	UBUS	4.7660e-003	6.3600e-004
tblVehicleEF	UBUS	0.64	0.05
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.29	0.07
tblVehicleEF	UBUS	0.01	4.8660e-003
tblVehicleEF	UBUS	1.8600e-003	1.7900e-004
tblVehicleEF	UBUS	0.01	1.5280e-003
tblVehicleEF	UBUS	0.16	9.1940e-003
tblVehicleEF	UBUS	4.7660e-003	6.3600e-004
tblVehicleEF	UBUS	2.30	3.42
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.42	0.08
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	34.30
tblVehicleTrips	CW_TL	16.60	34.30
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	1.06
tblVehicleTrips	ST_TR	1.68	0.45
tblVehicleTrips	SU_TR	0.68	1.06
tblVehicleTrips	SU_TR	1.68	0.45
tblVehicleTrips	WD_TR	6.97	1.06
tblVehicleTrips	WD_TR	1.68	0.45

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					
2019	0.0000	0.0000	0.0000	0.0000	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					
2019	0.0000	0.0000	0.0000	0.0000	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	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Energy	9.0100e-003	0.0819	0.0688	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003	0.0000	360.8679	360.8679	0.0129	3.9600e-003	362.3698
Mobile	0.1744	5.6090	1.1340	0.0176	0.6436	0.0943	0.7379	0.1815	0.0903	0.2717	0.0000	1,688.2745	1,688.2745	0.0193	0.0000	1,688.7569
Offroad	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Waste						0.0000	0.0000		0.0000	0.0000	41.7654	0.0000	41.7654	2.4683	0.0000	103.4720
Water						0.0000	0.0000		0.0000	0.0000	15.0948	197.3972	212.4920	1.5585	0.0383	262.8670
Total	**1.0647**	**6.0170**	**1.3511**	**0.0187**	**0.6436**	**0.1113**	**0.7549**	**0.1815**	**0.1063**	**0.2878**	**56.8602**	**2,297.3838**	**2,354.2440**	**4.0755**	**0.0423**	**2,468.7217**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Energy	9.0100e-003	0.0819	0.0688	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003	0.0000	360.8679	360.8679	0.0129	3.9600e-003	362.3698
Mobile	0.1744	5.6090	1.1340	0.0176	0.6436	0.0943	0.7379	0.1815	0.0903	0.2717	0.0000	1,688.2745	1,688.2745	0.0193	0.0000	1,688.7569
Offroad	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Waste						0.0000	0.0000		0.0000	0.0000	41.7654	0.0000	41.7654	2.4683	0.0000	103.4720
Water						0.0000	0.0000		0.0000	0.0000	15.0948	197.3972	212.4920	1.5585	0.0383	262.8670
Total	**1.0647**	**6.0170**	**1.3511**	**0.0187**	**0.6436**	**0.1113**	**0.7549**	**0.1815**	**0.1063**	**0.2878**	**56.8602**	**2,297.3838**	**2,354.2440**	**4.0755**	**0.0423**	**2,468.7217**

	ROG	NOx	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	5/1/2019	5/1/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.42

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
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.1744	5.6090	1.1340	0.0176	0.6436	0.0943	0.7379	0.1815	0.0903	0.2717	0.0000	1,688.2745	1,688.2745	0.0193	0.0000	1,688.7569
Unmitigated	0.1744	5.6090	1.1340	0.0176	0.6436	0.0943	0.7379	0.1815	0.0903	0.2717	0.0000	1,688.2745	1,688.2745	0.0193	0.0000	1,688.7569

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	43.62	43.62	43.62	544,605	544,605
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	74.07	74.07	74.07	924,796	924,796
Total	117.69	117.69	117.69	1,469,401	1,469,401

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	34.30	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	34.30	8.40	6.90	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	0.370000	0.000000	0.180000	0.450000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Non-Asphalt Surfaces	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120
Parking Lot	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.170000	0.000000	0.210000	0.620000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	271.6895	271.6895	0.0112	2.3200e-003	272.6615
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	271.6895	271.6895	0.0112	2.3200e-003	272.6615
NaturalGas Mitigated	9.0100e-003	0.0819	0.0688	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003	0.0000	89.1784	89.1784	1.7100e-003	1.6300e-003	89.7083
NaturalGas Unmitigated	9.0100e-003	0.0819	0.0688	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003	0.0000	89.1784	89.1784	1.7100e-003	1.6300e-003	89.7083

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	1.337e+006	7.2100e-003	0.0655	0.0551	3.9000e-004		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	71.3472	71.3472	1.3700e-003	1.3100e-003	71.7712
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	334144	1.8000e-003	0.0164	0.0138	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.8312	17.8312	3.4000e-004	3.3000e-004	17.9372
Total		**9.0100e-003**	**0.0819**	**0.0688**	**4.9000e-004**		**6.2200e-003**	**6.2200e-003**		**6.2200e-003**	**6.2200e-003**	**0.0000**	**89.1784**	**89.1784**	**1.7100e-003**	**1.6400e-003**	**89.7083**

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	1.337e+006	7.2100e-003	0.0655	0.0551	3.9000e-004		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	71.3472	71.3472	1.3700e-003	1.3100e-003	71.7712
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	334144	1.8000e-003	0.0164	0.0138	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.8312	17.8312	3.4000e-004	3.3000e-004	17.9372
Total		**9.0100e-003**	**0.0819**	**0.0688**	**4.9000e-004**		**6.2200e-003**	**6.2200e-003**		**6.2200e-003**	**6.2200e-003**	**0.0000**	**89.1784**	**89.1784**	**1.7100e-003**	**1.6400e-003**	**89.7083**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	417683	133.0826	5.4900e-003	1.1400e-003	133.5588
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	46557.3	14.8342	6.1000e-004	1.3000e-004	14.8872
Unrefrigerated Warehouse-No Rail	388463	123.7727	5.1100e-003	1.0600e-003	124.2155
Total		**271.6895**	**0.0112**	**2.3300e-003**	**272.6615**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	417683	133.0826	5.4900e-003	1.1400e-003	133.5588
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	46557.3	14.8342	6.1000e-004	1.3000e-004	14.8872
Unrefrigerated Warehouse-No Rail	388463	123.7727	5.1100e-003	1.0600e-003	124.2155
Total		**271.6895**	**0.0112**	**2.3300e-003**	**272.6615**

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	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Unmitigated	0.8546	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0981					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.6000e-004	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Total	**0.8546**	**5.0000e-005**	**5.9100e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0114**	**0.0114**	**3.0000e-005**	**0.0000**	**0.0122**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0981					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.6000e-004	5.0000e-005	5.9100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Total	**0.8546**	**5.0000e-005**	**5.9100e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0114**	**0.0114**	**3.0000e-005**	**0.0000**	**0.0122**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	212.4920	1.5585	0.0383	262.8670
Unmitigated	212.4920	1.5585	0.0383	262.8670

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	9.51594 / 0	42.4984	0.3117	7.6600e-003	52.5734
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	38.0637 / 0	169.9936	1.2468	0.0306	210.2936
Total		**212.4920**	**1.5585**	**0.0383**	**262.8670**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	9.51594 / 0	42.4984	0.3117	7.6600e-003	52.5734
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	38.0637 / 0	169.9936	1.2468	0.0306	210.2936
Total		**212.4920**	**1.5585**	**0.0383**	**262.8670**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.7654	2.4683	0.0000	103.4720
Unmitigated	41.7654	2.4683	0.0000	103.4720

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	51.03	10.3586	0.6122	0.0000	25.6631
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	154.72	31.4068	1.8561	0.0000	77.8089
Total		**41.7654**	**2.4683**	**0.0000**	**103.4720**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	51.03	10.3586	0.6122	0.0000	25.6631
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	154.72	31.4068	1.8561	0.0000	77.8089
Total		**41.7654**	**2.4683**	**0.0000**	**103.4720**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	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	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Total	**0.0268**	**0.3261**	**0.1424**	**5.8000e-004**		**0.0107**	**0.0107**		**9.8400e-003**	**9.8400e-003**	**0.0000**	**50.8328**	**50.8328**	**0.0164**	**0.0000**	**51.2438**

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

APPENDIX 3.4:

EMFAC2017 MODEL OUTPUTS

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EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: RIVERSIDE
Calendar Year: 2020
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
RIVERSIDE	2020	HHDT	Aggregated	Aggregated	GAS	9.095523545	642.6381	160.1537602	550024.9801	642.6381	3752188.128	6.82	HHDT
RIVERSIDE	2020	HHDT	Aggregated	Aggregated	DSL	26446.80718	3741871	545625.6403		3741871			
RIVERSIDE	2020	HHDT	Aggregated	Aggregated	NG	238.4864107	9674.659	4239.186025		9674.659			
RIVERSIDE	2020	LDA	Aggregated	Aggregated	GAS	727415.2858	29235242	963671.4084	968992.5576	29235242	29807067.6	30.76	LDA
RIVERSIDE	2020	LDA	Aggregated	Aggregated	DSL	6210.83018	264687.8	5321.149244		264687.8			
RIVERSIDE	2020	LDA	Aggregated	Aggregated	ELEC	7992.09117	307137.6	0		307137.6			
RIVERSIDE	2020	LDT1	Aggregated	Aggregated	GAS	78434.222	2948933	114713.676	114753.7698	2948933	2956743.035	25.77	LDT1
RIVERSIDE	2020	LDT1	Aggregated	Aggregated	DSL	46.19775392	1016.736	40.09380436		1016.736			
RIVERSIDE	2020	LDT1	Aggregated	Aggregated	ELEC	173.8901824	6793.548	0		6793.548			
RIVERSIDE	2020	LDT2	Aggregated	Aggregated	GAS	240265.9878	9472450	398327.6907	399728.6195	9472450	9563009.703	23.92	LDT2
RIVERSIDE	2020	LDT2	Aggregated	Aggregated	DSL	1114.907475	51585.18	1400.92881		51585.18			
RIVERSIDE	2020	LDT2	Aggregated	Aggregated	ELEC	1188.93567	38974.86	0		38974.86			
RIVERSIDE	2020	LHDT1	Aggregated	Aggregated	GAS	21163.22926	706741.5	66778.51313	100895.6341	706741.5	1408085.895	13.96	LHDT1
RIVERSIDE	2020	LHDT1	Aggregated	Aggregated	DSL	19824.04677	701344.3	34117.12096		701344.3			
RIVERSIDE	2020	LHDT2	Aggregated	Aggregated	GAS	3298.967893	110129.1	11924.24736	26185.64203	110129.1	378831.6298	14.47	LHDT2
RIVERSIDE	2020	LHDT2	Aggregated	Aggregated	DSL	7553.39075	268702.5	14261.39467		268702.5			
RIVERSIDE	2020	MCY	Aggregated	Aggregated	GAS	35084.23807	268056	6986.853972	6986.853972	268056	268055.9886	38.37	MCY
RIVERSIDE	2020	MDV	Aggregated	Aggregated	GAS	208408.5299	7762870	403976.0935	409841.0212	7762870	7936571.298	19.36	MDV
RIVERSIDE	2020	MDV	Aggregated	Aggregated	DSL	3638.339407	159965.7	5864.927732		159965.7			
RIVERSIDE	2020	MDV	Aggregated	Aggregated	ELEC	409.4714036	13735.96	0		13735.96			
RIVERSIDE	2020	MH	Aggregated	Aggregated	GAS	6522.373746	53431.65	10550.71085	12609.3667	53431.65	75538.38855	5.99	MH
RIVERSIDE	2020	MH	Aggregated	Aggregated	DSL	2593.765323	22106.74	2058.655852		22106.74			
RIVERSIDE	2020	MHDT	Aggregated	Aggregated	GAS	1903.946376	100055.4	19750.9587	109862.4518	100055.4	1050271.232	9.56	MHDT
RIVERSIDE	2020	MHDT	Aggregated	Aggregated	DSL	15685.65437	950215.9	90111.49313		950215.9			
RIVERSIDE	2020	OBUS	Aggregated	Aggregated	GAS	590.9645011	27934.48	5567.183109	8337.866413	27934.48	51853.4565	6.22	OBUS
RIVERSIDE	2020	OBUS	Aggregated	Aggregated	DSL	340.8594767	23918.98	2770.683305		23918.98			
RIVERSIDE	2020	SBUS	Aggregated	Aggregated	GAS	460.0487654	18788.35	2112.908754	6835.842429	18788.35	53961.39459	7.89	SBUS
RIVERSIDE	2020	SBUS	Aggregated	Aggregated	DSL	1109.224938	35173.05	4722.933675		35173.05			
RIVERSIDE	2020	UBUS	Aggregated	Aggregated	GAS	162.5145119	22881.2	3711.979171	13036.28755	22881.2	64939.91488	4.98	UBUS
RIVERSIDE	2020	UBUS	Aggregated	Aggregated	DSL	1.105797941	58.5719	6.566326751		58.5719			
RIVERSIDE	2020	UBUS	Aggregated	Aggregated	ELEC	5.058469431	271.5304	0		271.5304			
RIVERSIDE	2020	UBUS	Aggregated	Aggregated	NG	304.7651534	41728.61	9317.742056		41728.61			