Appendix A Air Quality/GHG Emissions Data

Appendix

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Air Quality and Greenhouse Gas Appendix

Air Quality and Greenhouse Gas Background and Modeling Data

AIR QUALITY

Climate/Meteorology

SOUTH COAST AIR BASIN

The project site lies in the South Coast Air Basin (SoCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The SoCAB is in a coastal plain with connecting broad valleys and low hills and is bounded by the Pacific Ocean in the southwest quadrant, with high mountains forming the remainder of the perimeter. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific. As a result, the climate is mild, tempered by cool sea breezes. This usually mild weather pattern is interrupted infrequently by periods of extremely hot weather, winter storms, and Santa Ana winds (South Coast AQMD 2005).

Temperature and Precipitation

The annual average temperature varies little throughout the SoCAB, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The climatological station nearest to the project area that best represents the climatological conditions of the project area is the Yorba Linda, California Monitoring Station (ID 049847). The average low is reported at 41.7°F in January, and the average high is 88.4°F in August (WRCC 2021).

In contrast to a very steady pattern of temperature, rainfall is seasonally and annually highly variable. Almost all rain falls from October through April. Summer rainfall is normally restricted to widely scattered thundershowers near the coast, with slightly heavier shower activity in the east and over the mountains. Rainfall historically averages 14.40 inches per year in the project area (WRCC 2021).

Humidity

Although the SoCAB has a semiarid climate, the air near the earth's surface is typically moist because of the presence of a shallow marine layer. Except for infrequent periods when dry, continental air is brought into the SoCAB by offshore winds, the "ocean effect" is dominant. Periods of heavy fog, especially along the coast, are frequent. Low clouds, often referred to as high fog, are a characteristic climatic feature. Annual average humidity is 70 percent at the coast and 57 percent in the eastern portions of the (South Coast AQMD 2005).

Wind

Wind patterns across the south coastal region are characterized by westerly or southwesterly onshore winds during the day and by easterly or northeasterly breezes at night. Wind speed is somewhat greater during the dry summer months than during the rainy winter season.

Between periods of wind, periods of air stagnation may occur, both in the morning and evening hours. Air stagnation is one of the critical determinants of air quality conditions on any given day. During the winter and fall months, surface high-pressure systems over the SoCAB, combined with other meteorological conditions, can result in very strong, downslope Santa Ana winds. These winds normally continue a few days before predominant meteorological conditions are reestablished.

The mountain ranges to the east affect the transport and diffusion of pollutants by inhibiting their eastward transport. Air quality in the SoCAB generally ranges from fair to poor and is similar to air quality in most of coastal southern California. The entire region experiences heavy concentrations of air pollutants during prolonged periods of stable atmospheric conditions (South Coast AQMD 2005).

Inversions

In conjunction with the two characteristic wind patterns that affect the rate and orientation of horizontal pollutant transport, there are two similarly distinct types of temperature inversions that control the vertical depth through which pollutants are mixed. These are the marine/subsidence inversion and the radiation inversion. The combination of winds and inversions are critical determinants in leading to the highly degraded air quality in summer and the generally good air quality in the winter in the project area (South Coast AQMD 2005).

Air Quality Regulations

The proposed project has the potential to release gaseous emissions of criteria pollutants and dust into the ambient air; therefore, it falls under the ambient air quality standards promulgated at the local, state, and federal levels. The project site is in the SoCAB and is subject to the rules and regulations imposed by the South Coast Air Quality Management District (South Coast AQMD). However, South Coast AQMD reports to California Air Resources board (CARB), and all criteria emissions are also governed by the California and national Ambient Air Quality Standards (AAQS). Federal, state, regional, and local laws, regulations, plans, or guidelines that are potentially applicable to the proposed project are summarized below.

AMBIENT AIR QUALITY STANDARDS

The Clean Air Act (CAA) was passed in 1963 by the US Congress and has been amended several times. The 1970 Clean Air Act amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including nonattainment requirements for areas not meeting National AAQS and the Prevention of Significant Deterioration program. The 1990 amendments represent the latest in a series of federal efforts to regulate the protection of air quality in the United States. The CAA allows states to adopt more stringent standards or to include other pollution species. The California Clean Air Act (CCAA), signed into law in 1988, requires all areas of the state to achieve

and maintain the California AAQS by the earliest practical date. The California AAQS tend to be more restrictive than the National AAQS, based on even greater health and welfare concerns.

These National AAQS and California AAQS are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect "sensitive receptors" most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Both California and the federal government have established health-based AAQS for seven air pollutants. As shown in Table 1, these pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), coarse inhalable particulate matter (PM_{10}), fine inhalable particulate matter ($PM_{2.5}$), and lead (Pb). In addition, the state has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

Table 1 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
Ozone (O_3)[3]	1 hour	0.09 ppm	*	Motor vehicles, paints, coatings, and solvents.
	8 hours	0.070 ppm	0.070 ppm	
Carbon Monoxide (CO)	1 hour	20 ppm	35 ppm	Internal combustion engines, primarily gasoline-powered motor vehicles.
	8 hours	9.0 ppm	9 ppm	
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	0.030 ppm	0.053 ppm	Motor vehicles, petroleum-refining operations, industrial sources, aircraft, ships, and railroads.
	1 hour	0.18 ppm	0.100 ppm	
Sulfur Dioxide (SO_2)	Annual Arithmetic Mean	*	0.030 ppm	Fuel combustion, chemical plants, sulfur recovery plants, and metal processing.
	1 hour	0.25 ppm	0.075 ppm	
	24 hours	0.04 ppm	0.14 ppm	
Respirable Coarse Particulate Matter (PM_{10})	Annual Arithmetic Mean	20 µg/m^3	*	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
	24 hours	50 µg/m^3	150 µg/m^3	
Respirable Fine Particulate Matter ($PM_{2.5}$)[4]	Annual Arithmetic Mean	12 µg/m^3	12 µg/m^3	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
	24 hours	*	35 µg/m^3	

Table 1 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
Lead (Pb)	30-Day Average	1.5 µg/m^3	*	Present source: lead smelters, battery manufacturing & recycling facilities. Past source: combustion of leaded gasoline.
	Calendar Quarter	*	1.5 µg/m^3	
	Rolling 3-Month Average	*	0.15 µg/m^3	
Sulfates (SO_4)[5]	24 hours	25 µg/m^3	*	Industrial processes.
Visibility Reducing Particles	8 hours	ExCo =0.23/km visibility of 10≥ miles	No Federal Standard	Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size and chemical composition, and can be made up of many different materials such as metals, soot, soil, dust, and salt.
Hydrogen Sulfide	1 hour	0.03 ppm	No Federal Standard	Hydrogen sulfide (H_2S) is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. Also, it can be present in sewer gas and some natural gas and can be emitted as the result of geothermal energy exploitation.
Vinyl Chloride	24 hours	0.01 ppm	No Federal Standard	Vinyl chloride (chloroethene), a chlorinated hydrocarbon, is a colorless gas with a mild, sweet odor. Most vinyl chloride is used to make polyvinyl chloride (PVC) plastic and vinyl products. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites, due to microbial breakdown of chlorinated solvents.

Source: CARB 2016.
Notes: ppm: parts per million; µg/m^3: micrograms per cubic meter
* Standard has not been established for this pollutant/duration by this entity.
1 California standards for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, and particulate matter (PM_{10}, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2 National standards (other than O_3, PM, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.
3 On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
4 On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
5 On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. The 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

California has also adopted a host of other regulations that reduce criteria pollutant emissions, including:

- AB 1493: Pavley Fuel Efficiency Standards
- Title 20 California Code of Regulations (CCR): Appliance Energy Efficiency Standards
- Title 24, Part 6, CCR: Building and Energy Efficiency Standards

- Title 24, Part 11, CCR: Green Building Standards Code

CRITERIA AIR POLLUTANTS

The air pollutants emitted into the ambient air by stationary and mobile sources are regulated by federal and state law. Air pollutants are categorized as primary or secondary pollutants. Primary air pollutants are those that are emitted directly from sources and include CO, VOC, NO_2, SO_X, PM_{10}, $PM_{2.5}$, and Pb. Of these, CO, SO_2, NO_2, PM_{10}, and $PM_{2.5}$ are "criteria air pollutants," which means that ambient air quality standards (AAQS) have been established for them. VOC and oxides of nitrogen (NO_x) are air pollutant precursors that form secondary criteria pollutants through chemical and photochemical reactions in the atmosphere. Ozone (O_3) and NO_2 are the principal secondary pollutants. A description of each of the primary and secondary criteria air pollutants and their known health effects is presented below.

Carbon Monoxide (CO) is a colorless, odorless, toxic gas produced by incomplete combustion of carbon substances, such as gasoline or diesel fuel. CO is a primary criteria air pollutant. CO concentrations tend to be the highest during winter mornings with little to no wind, when surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion, engines and motor vehicles operating at slow speeds are the primary source of CO in the SoCAB. The highest ambient CO concentrations are generally found near traffic-congested corridors and intersections. The primary adverse health effect associated with CO is interference with normal oxygen transfer to the blood, which may result in tissue oxygen deprivation (South Coast AQMD 2005, USEPA 2021). The SoCAB is designated as being in attainment under the California AAQS and attainment (serious maintenance) under the National AAQS (CARB 2019).

Volatile Organic Compounds (VOC) are compounds composed primarily of atoms of hydrogen and carbon. Internal combustion associated with motor vehicle usage is the major source of hydrocarbons. Other sources of VOCs include evaporative emissions associated with the use of paints and solvents, the application of asphalt paving, and the use of household consumer products such as aerosols. There are no ambient air quality standards established for VOCs. However, because they contribute to the formation of ozone (O_3), South Coast AQMD has established a significance threshold for this pollutant (South Coast AQMD 2005).

Nitrogen Oxides (NO_x) are a byproduct of fuel combustion and contribute to the formation of O_3, PM_{10}, and $PM_{2.5}$. The two major forms of NO_x are nitric oxide (NO) and nitrogen dioxide (NO_2). The principal form of NO_2 produced by combustion is NO, but NO reacts with oxygen to form NO_2, creating the mixture of NO and NO_2 commonly called NO_x. NO_2 acts as an acute irritant and, in equal concentrations, is more injurious than NO. At atmospheric concentrations, however, NO_2 is only potentially irritating. There is some indication of a relationship between NO_2 and chronic pulmonary fibrosis. Some increase in bronchitis in children (two and three years old) has also been observed at concentrations below 0.3 part per million (ppm). NO_2 absorbs blue light; the result is a brownish-red cast to the atmosphere and reduced visibility. NO is a colorless, odorless gas formed from atmospheric nitrogen and oxygen when combustion takes place under high temperature and/or high pressure (South Coast AQMD 2005, USEPA 2021). The SoCAB is designated as an attainment (maintenance) area under the National AAQS and attainment area under the California AAQS (CARB 2019).

Sulfur Dioxide (SO_2) is a colorless, pungent, irritating gas formed by the combustion of sulfurous fossil fuels. It enters the atmosphere as a result of burning high-sulfur-content fuel oils and coal and from chemical processes at chemical plants and refineries. Gasoline and natural gas have very low sulfur content and do not release significant quantities of SO_2 (South Coast AQMD 2005, USEPA 2021). When sulfur dioxide forms sulfates (SO_4) in the atmosphere, together these pollutants are referred to as sulfur oxides (SO_X). Thus, SO_2 is both a primary and secondary criteria air pollutant. At sufficiently high concentrations, SO_2 may irritate the upper respiratory tract. At lower concentrations and when combined with particulates, SO_2 may do greater harm by injuring lung tissue. The SoCAB is designated as attainment under the California and National AAQS (CARB 2019).

Suspended Particulate Matter (PM_{10} and $PM_{2.5}$) consists of finely divided solids or liquids such as soot, dust, aerosols, fumes, and mists. Two forms of fine particulates are now recognized and regulated. Inhalable coarse particles, or PM_{10}, include the particulate matter with an aerodynamic diameter of 10 microns (i.e., 10 millionths of a meter or 0.0004 inch) or less. Inhalable fine particles, or $PM_{2.5}$, have an aerodynamic diameter of 2.5 microns (i.e., 2.5 millionths of a meter or 0.0001 inch) or less. Particulate discharge into the atmosphere results primarily from industrial, agricultural, construction, and transportation activities. However, wind action on arid landscapes also contributes substantially to local particulate loading (i.e., fugitive dust). Both PM_{10} and $PM_{2.5}$ may adversely affect the human respiratory system, especially in people who are naturally sensitive or susceptible to breathing problems (South Coast AQMD 2005).

The US Environmental Protection Agency's (EPA) scientific review concluded that $PM_{2.5}$, which penetrates deeply into the lungs, is more likely than PM_{10} to contribute to health effects and at concentrations that extend well below those allowed by the current PM_{10} standards. These health effects include premature death and increased hospital admissions and emergency room visits (primarily the elderly and individuals with cardiopulmonary disease); increased respiratory symptoms and disease (children and individuals with cardiopulmonary disease such as asthma); decreased lung functions (particularly in children and individuals with asthma); and alterations in lung tissue and structure and in respiratory tract defense mechanisms (South Coast AQMD 2005). There has been emerging evidence that even smaller particulates with an aerodynamic diameter of <0.1 microns or less (i.e., ≤0.1 millionths of a meter or <0.000004 inch), known as ultrafine particulates (UFPs), have human health implications, because UFPs toxic components may initiate or facilitate biological processes that may lead to adverse effects to the heart, lungs, and other organs (South Coast AQMD 2013). However, the EPA or CARB have yet to adopt AAQS to regulate these particulates. Diesel particulate matter (DPM) is classified by the CARB as a carcinogen (CARB 1998). Particulate matter can also cause environmental effects such as visibility impairment,[1] environmental damage,[2] and aesthetic damage[3] (South Coast AQMD 2005; USEPA 2021). The SoCAB is in nonattainment and serious nonattainment for $PM_{2.5}$ under the California

[1] $PM_{2.5}$ is the main cause of reduced visibility (haze) in parts of the United States.

[2] Particulate matter can be carried over long distances by wind and then settle on ground or water, making lakes and streams acidic; changing the nutrient balance in coastal waters and large river basins; depleting the nutrients in soil; damaging sensitive forests and farm crops; and affecting the diversity of ecosystems.

[3] Particulate matter can stain and damage stone and other materials, including culturally important objects such as statues and monuments.

and National AAQS, respectively. For PM_{10}, the SoCAB is nonattainment under the California AAQS and in attainment (serious maintenance) under the National AAQS (CARB 2019).[4]

Ozone (O_3) is commonly referred to as "smog" and is a gas that is formed when VOCs and NO_x, both by-products of internal combustion engine exhaust, undergo photochemical reactions in the presence of sunlight. O_3 is a secondary criteria air pollutant. O_3 concentrations are generally highest during the summer months when direct sunlight, light winds, and warm temperatures create favorable conditions for the formation of this pollutant. O_3 poses a health threat to those who already suffer from respiratory diseases as well as to healthy people. Breathing O_3 can trigger a variety of health problems, including chest pain, coughing, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma. Ground-level O_3 also can reduce lung function and inflame the linings of the lungs. Repeated exposure may permanently scar lung tissue. O_3 also affects sensitive vegetation and ecosystems, including forests, parks, wildlife refuges, and wilderness areas. In particular, O_3 harms sensitive vegetation during the growing season (South Coast AQMD 2005; USEPA 2021). The SoCAB is designated as extreme nonattainment under the National AAQS (8-hour) and as nonattainment under the California AAQS (1-hour and 8-hour). (CARB 2019).

Lead (Pb) is a metal found naturally in the environment as well as in manufactured products. Once taken into the body, lead distributes throughout the body in the blood and accumulates in the bones. Depending on the level of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems, and the cardiovascular system. Lead exposure also affects the oxygen-carrying capacity of the blood. The effects of lead most commonly encountered in current populations are neurological effects in children and cardiovascular effects in adults (e.g., high blood pressure and heart disease). Infants and young children are especially sensitive to even low levels of lead, which may contribute to behavioral problems, learning deficits, and lowered IQ (South Coast AQMD 2005; USEPA 2021). The major sources of lead emissions have historically been mobile and industrial sources. As a result of the EPA's regulatory efforts to remove lead from gasoline, emissions of lead from the transportation sector dramatically declined by 95 percent between 1980 and 1999, and levels of lead in the air decreased by 94 percent between 1980 and 1999. Today, the highest levels of lead in air are usually found near lead smelters. The major sources of lead emissions today are ore and metals processing and piston-engine aircraft operating on leaded aviation gasoline. However, in 2008 the EPA and CARB adopted stricter lead standards, and special monitoring sites immediately downwind of lead sources recorded very localized violations of the new state and federal standards.[5] As a result of these violations, the Los Angeles County portion of the SoCAB is designated nonattainment under the National AAQS for lead (South Coast AQMD 2012; CARB 2019). Because emissions of lead are found only in projects that are permitted by South Coast AQMD, lead is not a pollutant of concern for the project.

[4] CARB approved the South Coast AQMD's request to redesignate the SoCAB from serious nonattainment for PM_{10} to attainment for PM_{10} under the National AAQS on March 25, 2010, because the SoCAB did not violate federal 24-hour PM_{10} standards from 2004 to 2007. The EPA approved the State of California's request to redesignate the South Coast PM_{10} nonattainment area to attainment of the PM_{10} National AAQS, effective on July 26, 2013.

[5] Source-oriented monitors record concentrations of lead at lead-related industrial facilities in the SoCAB, which include Exide Technologies in the City of Commerce; Quemetco, Inc., in the City of Industry; Trojan Battery Company in Santa Fe Springs; and Exide Technologies in Vernon. Monitoring conducted between 2004 through 2007 showed that the Trojan Battery Company and Exide Technologies exceed the federal standards (South Coast AQMD 2012).

TOXIC AIR CONTAMINANTS

The public's exposure to air pollutants classified as toxic air contaminants (TACs) is a significant environmental health issue in California. In 1983, the California Legislature enacted a program to identify the health effects of TACs and to reduce exposure to these contaminants to protect the public health. The California Health and Safety Code defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant (HAP) pursuant to Section 112(b) of the federal Clean Air Act (42 United States Code §7412[b]) is a toxic air contaminant. Under state law, the California Environmental Protection Agency (Cal/EPA), acting through CARB, is authorized to identify a substance as a TAC if it determines that the substance is an air pollutant that may cause or contribute to an increase in mortality or to an increase in serious illness, or may pose a present or potential hazard to human health.

California regulates TACs primarily through Assembly Bill (AB) 1807 (Tanner Air Toxics Act) and AB 2588 (Air Toxics "Hot Spot" Information and Assessment Act of 1987). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an "airborne toxics control measure" for sources that emit designated TACs. If there is a safe threshold for a substance (i.e., a point below which there is no toxic effect), the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology to minimize emissions. To date, CARB has established formal control measures for 11 TACs, all of which are identified as having no safe threshold.

Air toxics from stationary sources are also regulated in California under the Air Toxics "Hot Spot" Information and Assessment Act of 1987. Under AB 2588, toxic air contaminant emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High priority facilities are required to perform a health risk assessment and, if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

By the last update to the TAC list in December 1999, CARB had designated 244 compounds as TACs (CARB 1999). Additionally, CARB has implemented control measures for a number of compounds that pose high risks and show potential for effective control. The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from diesel-fueled engines.

Diesel Particulate Matter

In 1998, CARB identified particulate emissions from diesel-fueled engines (diesel PM) as a TAC. Previously, the individual chemical compounds in diesel exhaust were considered TACs. Almost all diesel exhaust particle mass is 10 microns or less in diameter. Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung.

CARB has promulgated the following specific rules to limit TAC emissions:

- 13 CCR Chapter 10, Section 2485, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling

- 13 CCR Chapter 10, Section 2480, Airborne Toxic Control Measure to Limit School Bus Idling and Idling at Schools
- 13 CCR Section 2477 and Article 8, Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets and Facilities Where TRUs Operate

Community Risk

In addition, to reduce exposure to TACs, CARB developed and approved the *Air Quality and Land Use Handbook: A Community Health Perspective* (2005) to provide guidance regarding the siting of sensitive land uses in the vicinity of freeways, distribution centers, rail yards, ports, refineries, chrome-plating facilities, dry cleaners, and gasoline-dispensing facilities. This guidance document was developed to assess compatibility and associated health risks when placing sensitive receptors near existing pollution sources. CARB's recommendations on the siting of new sensitive land uses were based on a compilation of recent studies that evaluated data on the adverse health effects from proximity to air pollution sources. The key observation in these studies is that proximity to air pollution sources substantially increases exposure and the potential for adverse health effects. There are three carcinogenic toxic air contaminants that constitute the majority of the known health risks from motor vehicle traffic, DPM from trucks, and benzene and 1,3-butadiene from passenger vehicles. CARB recommendations are based on data that show that localized air pollution exposures can be reduced by as much as 80 percent by following CARB minimum distance separations.

Multiple Airborne Toxics Exposure Study (MATES)

The Multiple Air Toxics Exposure Study (MATES) is a monitoring and evaluation study on ambient concentrations of TACs and estimated the potential health risks from air toxics in the SoCAB. In 2008, South Coast AQMD conducted its third update to the MATES study (MATES III). The results showed that the overall risk for excess cancer from a lifetime exposure to ambient levels of air toxics was about 1,200 in a million. The largest contributor to this risk was diesel exhaust, accounting for 84 percent of the cancer risk (South Coast AQMD 2008b).

South Coast AQMD recently released the fourth update (MATES IV). The results showed that the overall monitored risk for excess cancer from a lifetime exposure to ambient levels of air toxics decreased to approximately 418 in one million. Compared to the 2008 MATES III, monitored excess cancer risks decreased by approximately 65 percent. Approximately 90 percent of the risk is attributed to mobile sources while 10 percent is attributed to TACs from stationary sources, such as refineries, metal processing facilities, gas stations, and chrome plating facilities. The largest contributor to this risk was diesel exhaust, accounting for approximately 68 percent of the air toxics risk. Compared to MATES III, MATES IV found substantial improvement in air quality and associated decrease in air toxics exposure. As a result, the estimated basin-wide population-weighted risk decreased by approximately 57 percent compared to the analysis done for the MATES III time period (South Coast AQMD 2015a).

The Office of Environmental Health Hazard Assessment (OEHHA) updated the guidelines for estimating cancer risks on March 6, 2015. The new method utilizes higher estimates of cancer potency during early life exposures, which result in a higher calculation of risk. There are also differences in the assumptions on

breathing rates and length of residential exposures. When combined together, South Coast AQMD estimates that risks for a given inhalation exposure level will be about 2.7 times higher using the proposed updated methods identified in MATES IV (e.g., 2.7 times higher than 418 in one million overall excess cancer risk) (South Coast AQMD 2015a).

Air Quality Management Planning

The South Coast AQMD is the agency responsible for preparing the air quality management plan (AQMP) for the SoCAB in coordination with the Southern California Association of Governments (SCAG). Since 1979, a number of AQMPs have been prepared.

2016 AQMP

On March 3, 2017, the South Coast AQMD adopted the 2016 AQMP as an update to the 2012 AQMP. The 2016 AQMP addresses strategies and measures to attain the following National AAQS:

- 2008 National 8-hour ozone standard by 2031,
- 2012 National annual $PM_{2.5}$ standard by 2025[6],
- 2006 National 24-hour $PM_{2.5}$ standard by 2019,
- 1997 National 8-hour ozone standard by 2023, and the
- 1979 National 1-hour ozone standard by year 2022.

It is projected that total NO_X emissions in the SoCAB would need to be reduced to 150 tons per day (tpd) by year 2023 and to 100 tpd in year 2031 to meet the 1997 and 2008 federal 8-hour ozone standards. The strategy to meet the 1997 federal 8-hour ozone standard would also lead to attaining the 1979 federal 1-hour ozone standard by year 2022 (South Coast AQMD 2017), which requires reducing NO_X emissions in the SoCAB to 250 tpd. This is approximately 45 percent additional reductions above existing regulations for the 2023 ozone standard and 55 percent additional reductions above existing regulations to meet the 2031 ozone standard.

Reducing NO_X emissions would also reduce $PM_{2.5}$ concentrations in the SoCAB. However, as the goal is to meet the 2012 federal annual $PM_{2.5}$ standard no later than year 2025, South Coast AQMD is seeking to reclassify the SoCAB from "moderate" to "serious" nonattainment under this federal standard. A "moderate" non-attainment would require meeting the 2012 federal standard by no later than 2021.

Overall, the 2016 AQMP is composed of stationary and mobile-source emission reductions from regulatory control measures, incentive-based programs, co-benefits from climate programs, mobile-source strategies, and reductions from federal sources such as aircrafts, locomotives, and ocean-going vessels. Strategies outlined in the 2016 AQMP would be implemented in collaboration between CARB and the EPA (South Coast AQMD 2017).

[6] The 2016 AQMP requests a reclassification from moderate to serious non-attainment for the 2012 National $PM_{2.5}$ standard.

LEAD STATE IMPLEMENTATION PLAN

In 2008, EPA designated the Los Angeles County portion of the SoCAB nonattainment under the federal lead (Pb) classification due to the addition of source-specific monitoring under the new federal regulation. This designation was based on two source-specific monitors in Vernon and the City of Industry exceeding the new standard. The rest of the SoCAB, outside the Los Angeles County nonattainment area remains in attainment of the new standard. On May 24, 2012, CARB approved the SIP revision for the federal lead standard, which the EPA revised in 2008. Lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011. The SIP revision was submitted to EPA for approval.

AREA DESIGNATIONS

The AQMP provides the framework for air quality basins to achieve attainment of the state and federal ambient air quality standards through the State Implementation Plan (SIP). Areas are classified as attainment or nonattainment areas for particular pollutants, depending on whether they meet ambient air quality standards. Severity classifications for ozone nonattainment range in magnitude from marginal, moderate, and serious to severe and extreme.

- **Unclassified:** a pollutant is designated unclassified if the data are incomplete and do not support a designation of attainment or nonattainment.
- **Attainment:** a pollutant is in attainment if the CAAQS for that pollutant was not violated at any site in the area during a three-year period.
- **Nonattainment:** a pollutant is in nonattainment if there was at least one violation of a state AAQS for that pollutant in the area.
- **Nonattainment/Transitional:** a subcategory of the nonattainment designation. An area is designated nonattainment/transitional to signify that the area is close to attaining the AAQS for that pollutant.

The attainment status for the SoCAB is shown in Table 2. The SoCAB is designated in attainment of the California AAQS for sulfates. The SoCAB is designated as nonattainment for lead (Los Angeles County only) under the National AAQS.

Table 2 Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
Ozone – 1-hour	Nonattainment	No Federal Standard
Ozone – 8-hour	Nonattainment	Extreme Nonattainment
PM_{10}	Nonattainment	Attainment (Serious Maintenance)
$PM_{2.5}$	Nonattainment	Nonattainment[1]
CO	Attainment	Attainment
NO_2	Attainment	Attainment (Maintenance)
SO_2	Attainment	Attainment
Lead	Attainment	Nonattainment (Los Angeles County only)[2]

Table 2 Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
All others	Attainment/Unclassified	Attainment/Unclassified

Source: CARB 2019.
[1] The South Coast AQMD is seeking to reclassify the SoCAB from "moderate" to "serious" nonattainment under federal $PM_{2.5}$ standard.
[2] In 2010, the Los Angeles portion of the SoCAB was designated nonattainment for lead under the new federal and existing state AAQS as a result of large industrial emitters. Remaining areas in the SoCAB are unclassified.

Existing Ambient Air Quality

Existing levels of ambient air quality and historical trends and projections in the vicinity of the project site are best documented by measurements taken by the South Coast AQMD. The proposed project is located within Source Receptor Area (SRA) 16 – North Orange County.[7] The air quality monitoring station closest to the project site is Anaheim-Pampas Lane Monitoring Station Monitoring Station, which monitors O_3, NO_x, PM_{10}, and $PM_{2.5}$. The most current five years of data from these monitoring stations are included in Table 3, *Ambient Air Quality Monitoring Summary*. The data show regular violations of the state and federal O_3, state PM_{10}, and federal $PM_{2.5}$ standards in the last five years.

Table 3 Ambient Air Quality Monitoring Summary

Pollutant/Standard	Number of Days Threshold Were Exceeded and Maximum Levels during Such Violations				
	2015	2016	2017	2018	2019
Ozone (O_3)					
State 1-Hour ≥ 0.09 ppm (days exceed threshold)	1	2	0	1	1
State 8-hour ≥ 0.07 ppm (days exceed threshold)	1	4	4	1	1
Federal 8-Hour > 0.075 ppm (days exceed threshold)	1	0	2	0	1
Max. 1-Hour Conc. (ppm)	0.100	0.103	0.090	0.112	0.096
Max. 8-Hour Conc. (ppm)	0.080	0.074	0.076	0.071	0.082
Nitrogen Dioxide (NO_2)					
State 1-Hour ≥ 0.18 ppm (days exceed threshold)	0	0	0	0	0
Federal 1-Hour ≥ 0.100 ppm (days exceed threshold)	0	0	0	0	0
Max. 1-Hour Conc. (ppb)	0.0591	0.0643	0.0812	0.0660	0.0594
Coarse Particulates (PM_{10})					
State 24-Hour > 50 µg/m³ (days exceed threshold)	2	3	5	2	4
Federal 24-Hour > 150 µg/m³ (days exceed threshold)	0	0	0	0	0
Max. 24-Hour Conc. (µg/m³)	59.0	74.0	95.7	94.6	127.1
Fine Particulates ($PM_{2.5}$)					
Federal 24-Hour > 35 µg/m³ (days exceed threshold)	3	1	7	7	4
Max. 24-Hour Conc. (µg/m³)	45.8	44.4	53.9	63.1	36.1

Source: CARB 2021.
ppm: parts per million; parts per billion, µg/m³: micrograms per cubic meter
Notes: * Data not available.
[1] Data obtained from the Anaheim-Pampas Lane Monitoring Station.

[7] Per South Coast AQMD Rule 701, an SRA is defined as follows: "A source area is that area in which contaminants are discharged and a receptor area is that area in which the contaminants accumulate and are measured. Any of the areas can be a source area, a receptor area, or both a source and receptor area." There are 37 SRAs within the South Coast AQMD's jurisdiction.

Sensitive Receptors

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardio-respiratory diseases.

Residential areas are also considered to be sensitive receptors to air pollution because residents (including children and the elderly) tend to be at home for extended periods of time, resulting in sustained exposure to any pollutants present. Schools are also considered sensitive receptors, as children are present for extended durations and engage in regular outdoor activities. Recreational land uses are considered moderately sensitive to air pollution. Although exposure periods are generally short, exercise places a high demand on respiratory functions, which can be impaired by air pollution. In addition, noticeable air pollution can detract from the enjoyment of recreation. Industrial and commercial areas are considered the least sensitive to air pollution. Exposure periods are relatively short and intermittent, as the majority of the workers tend to stay indoors most of the time. In addition, the working population is generally the healthiest segment of the public. The nearest sensitive receptors to the proposed project site are the residences along College Place to the north.

Methodology

Projected construction-related air pollutant emissions are calculated using the California Emissions Estimator Model (CalEEMod), Version 2016.3.2.25. CalEEMod compiles an emissions inventory of construction (fugitive dust, off-gas emissions, on-road emissions, and off-road emissions), area sources, indirect emissions from energy use, mobile sources, indirect emissions from waste disposal (annual only), and indirect emissions from water/wastewater (annual only) use. The calculated emissions of the project are compared to thresholds of significance for individual projects using the South Coast AQMD's *CEQA Air Quality Analysis Guidance Handbook*.

Thresholds of Significance

The analysis of the proposed project's air quality impacts follows the guidance and methodologies recommended in South Coast AQMD's *CEQA Air Quality Handbook* and the significance thresholds on South Coast AQMD's website (South Coast AQMD 1993). CEQA allows the significance criteria established by the applicable air quality management or air pollution control district to be used to assess impacts of a project on air quality. South Coast AQMD has established thresholds of significance for regional air quality emissions for construction activities and project operation. In addition to the daily thresholds listed above, projects are also subject to the AAQS. These are addressed though an analysis of localized CO impacts and localized significance thresholds (LSTs).

REGIONAL SIGNIFICANCE THRESHOLDS

The South Coast AQMD has adopted regional construction and operational emissions thresholds to determine a project's cumulative impact on air quality in the SoCAB. Table 4 lists South Coast AQMD's regional significance thresholds that are applicable for all projects uniformly regardless of size or scope. There is growing evidence that although ultrafine particulates contribute a very small portion of the overall atmospheric

mass concentration, they represent a greater proportion of the health risk from PM. However, the EPA or CARB have not yet adopted AAQS to regulate ultrafine particulates; therefore, South Coast AQMD has not developed thresholds for them.

Table 4 South Coast AQMD Significance Thresholds

Air Pollutant	Construction Phase	Operational Phase
Reactive Organic Gases (ROGs)/ Volatile Organic Compounds (VOCs)	75 lbs/day	55 lbs/day
Nitrogen Oxides (NO_X)	100 lbs/day	55 lbs/day
Carbon Monoxide (CO)	550 lbs/day	550 lbs/day
Sulfur Oxides (SO_X)	150 lbs/day	150 lbs/day
Particulates (PM_{10})	150 lbs/day	150 lbs/day
Particulates ($PM_{2.5}$)	55 lbs/day	55 lbs/day

Source: South Coast AQMD 2019.

Projects that exceed the regional significance threshold contribute to the nonattainment designation of the SoCAB. The attainment designations are based on the AAQS, which are set at levels of exposure that are determined to not result in adverse health. Exposure to fine particulate pollution and ozone causes myriad health impacts, particularly to the respiratory and cardiovascular systems:

- Linked to increased cancer risk ($PM_{2.5}$, TACs)
- Aggravates respiratory disease (O_3, $PM_{2.5}$)
- Increases bronchitis (O_3, $PM_{2.5}$)
- Causes chest discomfort, throat irritation, and increased effort to take a deep breath (O_3)
- Reduces resistance to infections and increases fatigue (O_3)
- Reduces lung growth in children ($PM_{2.5}$)
- Contributes to heart disease and heart attacks ($PM_{2.5}$)
- Contributes to premature death (O_3, $PM_{2.5}$)
- Linked to lower birth weight in newborns ($PM_{2.5}$) (South Coast AQMD 2015b)

Exposure to fine particulates and ozone aggravates asthma attacks and can amplify other lung ailments such as emphysema and chronic obstructive pulmonary disease. Exposure to current levels of $PM_{2.5}$ is responsible for an estimated 4,300 cardiopulmonary-related deaths per year in the SoCAB. In addition, University of Southern California scientists responsible for a landmark children's health study found that lung growth improved as air pollution declined for children aged 11 to 15 in five communities in the SoCAB (South Coast AQMD 2015c).

Mass emissions in Table 4 are not correlated with concentrations of air pollutants but contribute to the cumulative air quality impacts in the SoCAB. Therefore, regional emissions from a single project do not single-handedly trigger a regional health impact. South Coast AQMD is the primary agency responsible for ensuring the health and welfare of sensitive individuals to elevated concentrations of air quality in the SoCAB. To achieve the health-based standards established by the EPA, South Coast AQMD prepares an AQMP that details regional programs to attain the AAQS.

CO HOTSPOTS

Areas of vehicle congestion have the potential to create pockets of CO called hot spots. These pockets have the potential to exceed the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere, adherence to ambient air quality standards is typically demonstrated through an analysis of localized CO concentrations. Hot spots are typically produced at intersections, where traffic congestion is highest because vehicles queue for longer periods and are subject to reduced speeds. With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations in the SoCAB and in the state have steadily declined.

In 2007, the SoCAB was designated in attainment for CO under both the California AAQS and National AAQS. The CO hot spot analysis conducted for the attainment by the South Coast AQMD for busiest intersections in Los Angeles during the peak morning and afternoon periods plan did not predict a violation of CO standards.[8] As identified in the South Coast AQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SoCAB in previous years, prior to redesignation, were a result of unusual meteorological and topographical conditions and not a result of congestion at a particular intersection. Under existing and future vehicle emission rates, a project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (BAAQMD 2017).

LOCALIZED SIGNIFICANCE THRESHOLDS

The South Coast AQMD developed LSTs for emissions of NO_2, CO, PM_{10}, and $PM_{2.5}$ generated at the project site (offsite mobile-source emissions are not included in the LST analysis). LSTs represent the maximum emissions at a project site that are not expected to cause or contribute to an exceedance of the most stringent federal or state AAQS and are shown in Table 5.

[8] The four intersections were: Long Beach Boulevard and Imperial Highway; Wilshire Boulevard and Veteran Avenue; Sunset Boulevard and Highland Avenue; and La Cienega Boulevard and Century Boulevard. The busiest intersection evaluated (Wilshire and Veteran) had a daily traffic volume of approximately 100,000 vehicles per day with LOS E in the morning peak hour and LOS F in the evening peak hour.

Table 5 South Coast AQMD Localized Significance Thresholds

Air Pollutant (Relevant AAQS)	Concentration
1-Hour CO Standard (CAAQS)	20 ppm
8-Hour CO Standard (CAAQS)	9.0 ppm
1-Hour NO_2 Standard (CAAQS)	0.18 ppm
Annual NO_2 Standard (CAAQS)	0.03 ppm
24-Hour PM_{10} Standard – Construction (South Coast AQMD)[1]	10.4 µg/m^3
24-Hour $PM_{2.5}$ Standard – Construction (South Coast AQMD)[1]	10.4 µg/m^3
24-Hour PM_{10} Standard – Operation (South Coast AQMD)[1]	2.5 µg/m^3
24-Hour $PM_{2.5}$ Standard – Operation (South Coast AQMD)[1]	2.5 µg/m^3

Source: South Coast AQMD 2019.
ppm – parts per million; µg/m^3 – micrograms per cubic meter
[1] Threshold is based on South Coast AQMD Rule 403. Since the SoCAB is in nonattainment for PM_{10} and $PM_{2.5}$, the threshold is established as an allowable change in concentration. Therefore, background concentration is irrelevant.

To assist lead agencies, South Coast AQMD developed screening-level LSTs to back-calculate the mass amount (lbs. per day) of emissions generated onsite that would trigger the levels shown in Table 5 for projects under 5-acres. These "screening-level" LSTs tables are the localized significance thresholds for all projects of five acres and less; however, it can be used as screening criteria for larger projects to determine whether or not dispersion modeling may be required to compare concentrations of air pollutants generated by the project to the localized concentrations shown in Table 5.

In accordance with South Coast AQMD's LST methodology, the screening-level construction LSTs are based on the acreage disturbed per day based on equipment use. The screening-level construction LSTs for the project site in SRA 16 are shown in Table 6, *South Coast AQMD Screening-Level Construction Localized Significance Thresholds,* for sensitive receptors within 82 feet (25 meters).

Table 6 South Coast AQMD Screening-Level Construction Localized Significance Thresholds

	Threshold (lbs/day)[1]			
Acreage Disturbed	Nitrogen Oxides (NO_X)	Carbon Monoxide (CO)	Coarse Particulates (PM_{10})	Fine Particulates ($PM_{2.5}$)
≤1.00 Acre Disturbed Per Day	103	522	4.00	3.00
2.00 Acres Disturbed Per Day	147	762	6.00	4.00
3.55 Acres Disturbed Per Day	185	1,046	8.58	5.03

Source: South Coast AQMD 2008a and 2011.
[1] LSTs are based on receptors within 82 feet (25 meters) in SRA 16.

The proposed project would also include operation of boilers onsite for building space heating and water heating. Boilers would be permitted by the South Coast AQMD and would be required to comply with Rule 1146.2, which requires Low-NO_x efficient boilers. In addition, per CalEEMod methodology, emissions associated with operation of boilers are encompassed within the energy sector emissions associated with the buildings.[9] Overall, because the project is not an industrial project that has the potential to emit substantial

[9] Pursuant to the CalEEMod User's Guide, the 'Process Boilers' option should not be used for boilers providing heating or building hot water as natural gas use from the boilers is accounted for in the energy rates in CalEEMod.

sources of stationary emissions, operational LSTs are not an air quality impact of concern associated with the project.

Health Risk

Whenever a project would require use of chemical compounds that have been identified in South Coast AQMD Rule 1401, placed on CARB's air toxics list pursuant to AB 1807, or placed on the EPA's National Emissions Standards for Hazardous Air Pollutants, a health risk assessment is required by the South Coast AQMD. Table 7, *Toxic Air Contaminants Incremental Risk Thresholds*, lists the TAC incremental risk thresholds for operation of a project. The purpose of this environmental evaluation is to identify the significant effects of the proposed project on the environment, not the significant effects of the environment on the proposed project. (*California Building Industry Association v. Bay Area Air Quality Management District (2015) 62 Cal.4th 369 (Case No. S213478)*). CEQA does not require CEQA-level environmental document to analyze the environmental effects of attracting development and people to an area. However, the environmental document must analyze the impacts of environmental hazards on future users, when a proposed project exacerbates an existing environmental hazard or condition. Residential, commercial, and office uses do not use substantial quantities of TACs and typically do not exacerbate existing hazards, so these thresholds are typically applied to new industrial projects.

Table 7 South Coast AQMD Toxic Air Contaminants Incremental Risk Thresholds

Maximum Incremental Cancer Risk	≥ 10 in 1 million
Hazard Index (project increment)	≥ 1.0
Cancer Burden in areas ≥ 1 in 1 million	> 0.5 excess cancer cases

Source: South Coast AQMD 2019.

GREENHOUSE GAS EMISSIONS

Scientists have concluded that human activities are contributing to global climate change by adding large amounts of heat-trapping gases, known as GHG, to the atmosphere. Climate change is the variation of Earth's climate over time, whether due to natural variability or as a result of human activities. The primary source of these GHG is fossil fuel use. The Intergovernmental Panel on Climate Change (IPCC) has identified four major GHG—water vapor,[10] carbon (CO_2), methane (CH_4), and ozone (O_3)—that are the likely cause of an increase in global average temperatures observed within the 20th and 21st centuries. Other GHG identified by the IPCC that contribute to global warming to a lesser extent include nitrous oxide (N_2O), sulfur hexafluoride (SF_6), hydrofluorocarbons, perfluorocarbons, and chlorofluorocarbons (IPCC 2001).[11] The major GHG are briefly described below.

[10] Water vapor (H_2O) is the strongest GHG and the most variable in its phases (vapor, cloud droplets, ice crystals). However, water vapor is not considered a pollutant, but part of the feedback loop rather than a primary cause of change.

[11] Black carbon contributes to climate change both directly, by absorbing sunlight, and indirectly, by depositing on snow (making it melt faster) and by interacting with clouds and affecting cloud formation. Black carbon is the most strongly light-absorbing component of particulate matter (PM) emitted from burning fuels such as coal, diesel, and biomass. Reducing black carbon emissions globally can have immediate economic, climate, and public health benefits. California has been an international leader in

- **Carbon dioxide (CO_2)** enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and respiration, and also as a result of other chemical reactions (e.g. manufacture of cement). Carbon dioxide is removed from the atmosphere (sequestered) when it is absorbed by plants as part of the biological carbon cycle.

- **Methane (CH_4)** is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and other agricultural practices and from the decay of organic waste in municipal landfills and water treatment facilities.

- **Nitrous oxide (N_2O)** is emitted during agricultural and industrial activities as well as during combustion of fossil fuels and solid waste.

- **Fluorinated gases** are synthetic, strong GHGs that are emitted from a variety of industrial processes. Fluorinated gases are sometimes used as substitutes for ozone-depleting substances. These gases are typically emitted in smaller quantities, but because they are potent GHGs, they are sometimes referred to as high global-warming-potential (GWP) gases.

    - ***Chlorofluorocarbons (CFCs***) are GHGs covered under the 1987 Montreal Protocol and used for refrigeration, air conditioning, packaging, insulation, solvents, or aerosol propellants. Since they are not destroyed in the lower atmosphere (troposphere, stratosphere), CFCs drift into the upper atmosphere where, given suitable conditions, they break down ozone. These gases are also ozone-depleting gases and are therefore being replaced by other compounds that are GHGs covered under the Kyoto Protocol.

    - ***Perfluorocarbons (PFCs)*** are a group of human-made chemicals composed of carbon and fluorine only. These chemicals (predominantly perfluoromethane [CF_4] and perfluoroethane [C_2F_6]) were introduced as alternatives, along with HFCs, to the ozone-depleting substances. In addition, PFCs are emitted as by-products of industrial processes and are used in manufacturing. PFCs do not harm the stratospheric ozone layer, but they have a high global warming potential.

    - ***Sulfur Hexafluoride (SF_6)*** is a colorless gas soluble in alcohol and ether, slightly soluble in water. SF_6 is a strong GHG used primarily in electrical transmission and distribution systems as an insulator.

    - ***Hydrochlorofluorocarbons (HCFCs)*** contain hydrogen, fluorine, chlorine, and carbon atoms. Although ozone-depleting substances, they are less potent at destroying stratospheric ozone than CFCs. They have been introduced as temporary replacements for CFCs and are also GHGs.

    - ***Hydrofluorocarbons (HFCs)*** contain only hydrogen, fluorine, and carbon atoms. They were introduced as alternatives to ozone-depleting substances to serve many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are also used in

reducing emissions of black carbon, with close to 95 percent control expected by 2020 due to existing programs that target reducing PM from diesel engines and burning activities (CARB 2017a). However, state and national GHG inventories do not yet include black carbon due to ongoing work resolving the precise global warming potential of black carbon. Guidance for CEQA documents does not yet include black carbon.

manufacturing. They do not significantly deplete the stratospheric ozone layer, but they are strong GHGs (IPCC 2001; USEPA 2020).

GHGs are dependent on the lifetime or persistence of the gas molecule in the atmosphere. Some GHGs have stronger greenhouse effects than others. These are referred to as high GWP gases. The GWP of GHG emissions are shown in Table 8. The GWP is used to convert GHGs to CO_2-equivalence (CO_2e) to show the relative potential that different GHGs have to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. For example, under IPCC's Fourth Assessment Report (AR4) GWP values for CH_4, a project that generates 10 metric tons (MT) of CH_4 would be equivalent to 250 MT of CO_2 (IPCC 2007).

Table 8 GHG Emissions and Their Relative Global Warming Potential Compared to CO_2

GHGs	Second Assessment Report Atmospheric Lifetime (Years)	Fourth Assessment Report Atmospheric Lifetime (Years)	Second Assessment Report Global Warming Potential Relative to CO_2[1]	Fourth Assessment Report Global Warming Potential Relative to CO_2[1]
Carbon Dioxide (CO_2)	50 to 200	50 to 200	1	1
Methane[2] (CH_4)	12 (±3)	12	21	25
Nitrous Oxide (N_2O)	120	114	310	298
Hydrofluorocarbons:				
HFC-23	264	270	11,700	14,800
HFC-32	5.6	4.9	650	675
HFC-125	32.6	29	2,800	3,500
HFC-134a	14.6	14	1,300	1,430
HFC-143a	48.3	52	3,800	4,470
HFC-152a	1.5	1.4	140	124
HFC-227ea	36.5	34.2	2,900	3,220
HFC-236fa	209	240	6,300	9,810
HFC-4310mee	17.1	15.9	1,300	1,030
Perfluoromethane: CF_4	50,000	50,000	6,500	7,390
Perfluoroethane: C_2F_6	10,000	10,000	9,200	12,200
Perfluorobutane: C_4F_{10}	2,600	NA	7,000	8,860
Perfluoro-2-methylpentane: C_6F_{14}	3,200	NA	7,400	9,300
Sulfur Hexafluoride (SF_6)	3,200	NA	23,900	22,800

Source: IPCC 1995, 2007, 2013.
Notes:
1 The methane GWP includes direct effects and indirect effects due to the production of tropospheric ozone and stratospheric water vapor. The indirect effect due to the production of CO_2 is not included.
2 Based on 100-year time horizon of the GWP of the air pollutant compared to CO_2.
3 The GWP values in the IPCC's Fifth Assessment Report (2013) reflect new information on atmospheric lifetimes of GHGs and an improved calculation of the radiative forcing of CO_2. However, South Coast AQMD uses the AR4 GWP values to maintain consistency in statewide GHG emissions modeling. In addition, the 2017 Scoping Plan Update was based on the AR4 GWP values.

California's Greenhouse Gas Sources and Relative Contribution

In 2020, the statewide GHG emissions inventory was updated for 2000 to 2018 emissions using the GWPs in IPCC's AR4.[12] Based on these GWPs, California produced 425.3 $MMTCO_2e$ GHG emissions in 2018. California's transportation sector was the single largest generator of GHG emissions, producing 39.9 percent of the state's total emissions. Industrial sector emissions made up 21.0 percent, and electric power generation made up 14.8 percent of the state's emissions inventory. Other major sectors of GHG emissions include commercial and residential (9.7 percent), agriculture and forestry (7.7 percent) high GWP (4.8 percent), and recycling and waste (2.1 percent) (CARB 2020a).

Since the peak level in 2004, California statewide GHG emissions dropped below the 2020 GHG limit of 431 $MMCO_2e$ in 2016 and have remained below the 2020 GHG limit since then. In 2018, emissions from routine GHG emitting activities statewide were 6 $MMTCO_2e$ lower than the 2020 GHG limit. Per capita GHG emissions in California have dropped from a 2001 peak of 14.0 $MTCO_2e$ per person to 10.7 $MTCO_2e$ per person in 2018, a 24 percent decrease. Transportation emissions decreased in 2018 compared to the previous year, which is the first year over year decrease since 2013. Since 2008, California's electricity sector has followed an overall downward trend in emissions. In 2018, solar power generation has continued its rapid growth since 2013. Emissions from high-GWP gases increased 2.3 percent in 2018 (2000-2018 average year-over-year increase is 6.8 percent), continuing the increasing trend as they replace Ozone Depleting Substances (ODS) being phased out under the 1987 Montreal Protocol. Overall trends in the inventory also demonstrate that the carbon intensity of California's economy (the amount of carbon pollution per million dollars of gross domestic product (GDP)) is declining, representing a 43 percent decline since the 2001 peak, while the state's GDP has grown 59 percent during this period (CARB 2020a).

Regulatory Settings

REGULATION OF GHG EMISSIONS ON A NATIONAL LEVEL

The US Environmental Protection Agency (EPA) announced on December 7, 2009, that GHG emissions threaten the public health and welfare of the American people and that GHG emissions from on-road vehicles contribute to that threat. The EPA's final findings respond to the 2007 U.S. Supreme Court decision that GHG emissions fit within the Clean Air Act definition of air pollutants. The findings do not in and of themselves impose any emission reduction requirements but allow the EPA to finalize the GHG standards proposed in 2009 for new light-duty vehicles as part of the joint rulemaking with the Department of Transportation (USEPA 2009).

To regulate GHGs from passenger vehicles, EPA was required to issue an endangerment finding. The finding identifies emissions of six key GHGs—CO_2, CH_4, N_2O, hydrofluorocarbons, perfluorocarbons, and SF_6—that have been the subject of scrutiny and intense analysis for decades by scientists in the United States and around the world. The first three are applicable to the project's GHG emissions inventory because they constitute the

[12] Methodology for determining the statewide GHG inventory is not the same as the methodology used to determine statewide GHG emissions under Assembly Bill 32 (2006).

majority of GHG emissions and, per South Coast AQMD guidance, are the GHG emissions that should be evaluated as part of a project's GHG emissions inventory.

US Mandatory Report Rule for GHGs (2009)

In response to the endangerment finding, the EPA issued the Mandatory Reporting of GHG Rule that requires substantial emitters of GHG emissions (large stationary sources, etc.) to report GHG emissions data. Facilities that emit 25,000 MT or more of CO_2 per year are required to submit an annual report.

Update to Corporate Average Fuel Economy Standards (2017 to 2026)

The federal government issued new Corporate Average Fuel Economy (CAFE) standards in 2012 for model years 2017 to 2025, which required a fleet average of 54.5 miles per gallon in 2025. On March 30, 2020, the EPA finalized an updated CAFE and GHG emissions standards for passenger cars and light trucks and established new standards covering model years 2021 through 2026, known as the Safer Affordable Fuel Efficient (SAFE) Vehicles Final Rule for Model Years 2021 to 2026. However, in May 2020, California and 22 other states; the District of Columbia; the cities of Los Angeles, Denver, and New York; and the counties of San Francisco and Denver filed a lawsuit with the U.S. Court of Appeals for the District of Columbia Circuit, challenging the SAFE Rule. To date, a ruling has not been made on the lawsuit. In addition, a consortium of automakers and California have agreed on a voluntary framework to reduce emissions that can serve as an alternative path forward for clean vehicle standards nationwide. Automakers who agreed to the framework are Ford, Honda, BMW of North America, and Volkswagen Group of America. The framework supports continued annual reductions of vehicle GHG emissions through the 2026 model year, encourages innovation to accelerate the transition to electric vehicles, and gives industry the certainty needed to make investments and create jobs. This commitment means that the auto companies which are party to the voluntary agreement will only sell cars in the United States that meet these standards (CARB 2020b).

EPA Regulation of Stationary Sources under the Clean Air Act (Ongoing)

Pursuant to its authority under the Clean Air Act, the EPA has been developing regulations for new, large, stationary sources of emissions, such as power plants and refineries. Under former President Obama's 2013 Climate Action Plan, the EPA was directed to develop regulations for existing stationary sources as well. On June 19, 2019, the EPA issued the final Affordable Clean Energy (ACE) rule which became effective on August 19, 2019. The ACE rule was crafted under the direction of President Trump's Energy Independence Executive Order. It officially rescinds the Clean Power Plan rule issued during the Obama Administration and sets emissions guidelines for states in developing plans to limit CO_2 emissions from coal-fired power plants.

REGULATION OF GHG EMISSIONS ON A STATE LEVEL

Current State of California guidance and goals for reductions in GHG emissions are generally embodied in Executive Order S-3-05, Executive Order B-30-15, Assembly Bill 32 (AB 32), Senate Bill 32 (SB 32) and Senate Bill 375 (SB 375).

Executive Order S-3-05

Executive Order S-3-05, signed June 1, 2005. Executive Order S-3-05 set the following GHG reduction targets for the State:

- 2000 levels by 2010
- 1990 levels by 2020
- 80 percent below 1990 levels by 2050

Assembly Bill 32, the Global Warming Solutions Act (2006)

Current State of California guidance and goals for reductions in GHG emissions are generally embodied in AB 32. AB 32 was passed by the California state legislature on August 31, 2006, to place the state on a course toward reducing its contribution of GHG emissions. AB 32 follows the 2020 tier of emissions reduction targets established in Executive Order S-03-05.

CARB 2008 Scoping Plan

The final Scoping Plan was adopted by CARB on December 11, 2008. The *2008 Scoping Plan* identified that GHG emissions in California are anticipated to be approximately 596 $MMTCO_2e$ in 2020. In December 2007, CARB approved a 2020 emissions limit of 427 $MMTCO_2e$ (471 million tons) for the state (CARB 2008). In order to effectively implement the emissions cap, AB 32 directed CARB to establish a mandatory reporting system to track and monitor GHG emissions levels for large stationary sources that generate more than 25,000 $MTCO_2e$ per year, prepare a plan demonstrating how the 2020 deadline can be met, and develop appropriate regulations and programs to implement the plan by 2012.

First Update to the Scoping Plan

CARB completed a five-year update to the 2008 Scoping Plan, as required by AB 32. The First Update to the Scoping Plan was adopted at the May 22, 2014, board hearing. The update highlights California's progress toward meeting the near-term 2020 GHG emission reduction goals defined in the original 2008 Scoping Plan. As part of the update, CARB recalculated the 1990 GHG emission levels with the updated AR4 GWPs, and the 427 $MMTCO_2e$ 1990 emissions level and 2020 GHG emissions limit, established in response to AB 32, is slightly higher at 431 $MMTCO_2e$ (CARB 2014).

As identified in the Update to the Scoping Plan, California is on track to meeting the goals of AB 32. However, the update also addresses the state's longer-term GHG goals within a post-2020 element. The post-2020 element provides a high-level view of a long-term strategy for meeting the 2050 GHG goals, including a recommendation for the state to adopt a midterm target. According to the Update to the Scoping Plan, local government reduction targets should chart a reduction trajectory that is consistent with or exceeds the trajectory created by statewide goals (CARB 2014). CARB identified that reducing emissions to 80 percent below 1990 levels will require a fundamental shift to efficient, clean energy in every sector of the economy. Progressing toward California's 2050 climate targets will require significant acceleration of GHG reduction rates. Emissions from 2020 to 2050 will have to decline several times faster than the rate needed to reach the 2020 emissions limit (CARB 2014).

Executive Order B-30-15

Executive Order B-30-15, signed April 29, 2015, sets a goal of reducing GHG emissions in the state to 40 percent of 1990 levels by year 2030. Executive Order B-30-15 also directs CARB to update the Scoping Plan to quantify the 2030 GHG reduction goal for the state and requires state agencies to implement measures to meet the interim 2030 goal as well as the long-term goal for 2050 in Executive Order S-03-05. It also requires the Natural Resources Agency to conduct triennial updates of the California adaption strategy, Safeguarding California, in order to ensure climate change is accounted for in state planning and investment decisions.

Senate Bill 32 and Assembly Bill 197

In September 2016, Governor Brown signed SB 32 and AB 197 into law, making the Executive Order goal for year 2030 into a statewide mandated legislative target. AB 197 established a joint legislative committee on climate change policies and requires the CARB to prioritize direction emissions reductions rather than the market-based cap-and-trade program for large stationary, mobile, and other sources.

2017 Climate Change Scoping Plan Update

Executive Order B-30-15 and SB 32 required CARB to prepare another update to the Scoping Plan to address the 2030 target for the state. On December 24, 2017, CARB adopted the 2017 Climate Change Scoping Plan Update, which outlines potential regulations and programs, including strategies consistent with AB 197 requirements, to achieve the 2030 target. The 2017 Scoping Plan establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40 percent decrease in 1990 levels by 2030 (CARB 2017c).

California's climate strategy will require contributions from all sectors of the economy, including enhanced focus on zero- and near-zero emission (ZE/NZE) vehicle technologies; continued investment in renewables, such as solar roofs, wind, and other types of distributed generation; greater use of low carbon fuels; integrated land conservation and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (methane, black carbon, and fluorinated gases); and an increased focus on integrated land use planning, to support livable, transit-connected communities and conservation of agricultural and other lands. Requirements for GHG reductions at stationary sources complement local air pollution control efforts by the local air districts to tighten criteria air pollutants and TACs emissions limits on a broad spectrum of industrial sources. Major elements of the 2017 Scoping Plan framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing ZEV buses and trucks;
- Low Carbon Fuel Standard (LCFS), with an increased stringency (18 percent by 2030).
- Implementation of SB 350, which expands the Renewables Portfolio Standard (RPS) to 50 percent RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks.

- Implementing the Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing methane and hydrofluorocarbon emissions by 40 percent and anthropogenic black carbon emissions by 50 percent by year 2030.

- Post-2020 Cap-and-Trade Program that includes declining caps.

- Continued implementation of SB 375.

- Development of a Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

In addition to the statewide strategies listed above, the 2017 Climate Change Scoping Plan also identified local governments as essential partners in achieving the State's long-term GHG reduction goals and identified local actions to reduce GHG emissions. As part of the recommended actions, CARB recommends statewide targets of no more than 6 $MTCO_2e$ or less per capita by 2030 and 2 $MTCO_2e$ or less per capita by 2050. CARB recommends that local governments evaluate and adopt robust and quantitative locally-appropriate goals that align with the statewide per capita targets and the State's sustainable development objectives and develop plans to achieve the local goals. The statewide per capita goals were developed by applying the percent reductions necessary to reach the 2030 and 2050 climate goals (i.e., 40 percent and 80 percent, respectively) to the State's 1990 emissions limit established under AB 32. For CEQA projects, CARB states that lead agencies have discretion to develop evidenced-based numeric thresholds (mass emissions, per capita, or per service population)—consistent with the Scoping Plan and the state's long-term GHG goals. To the degree a project relies on GHG mitigation measures, CARB recommends that lead agencies prioritize on-site design features that reduce emissions, especially from VMT, and direct investments in GHG reductions within the project's region that contribute potential air quality, health, and economic co-benefits. Where further project design or regional investments are infeasible or not proven to be effective, CARB recommends mitigating potential GHG impacts through purchasing and retiring carbon credits.

The Scoping Plan scenario is set against what is called the business-as-usual (BAU) yardstick—that is, what would the GHG emissions look like if the State did nothing at all beyond the existing policies that are required and already in place to achieve the 2020 limit, as shown in Table 9. It includes the existing renewables requirements, advanced clean cars, the "10 percent" Low Carbon Fuel Standard (LCFS), and the SB 375 program for more vibrant communities, among others. However, it does not include a range of new policies or measures that have been developed or put into statute over the past two years. Also shown in the table, the known commitments are expected to result in emissions that are 60 $MMTCO_2e$ above the target in 2030. If the estimated GHG reductions from the known commitments are not realized due to delays in implementation or technology deployment, the post-2020 Cap-and-Trade Program would deliver the additional GHG reductions in the sectors it covers to ensure the 2030 target is achieved.

Table 9 2017 Climate Change Scoping Plan Emissions Reductions Gap

Modeling Scenario	2030 GHG Emissions $MMTCO_2e$
Reference Scenario (Business-as-Usual)	389

Table 9 2017 Climate Change Scoping Plan Emissions Reductions Gap

Modeling Scenario	2030 GHG Emissions $MMTCO_2e$
With Known Commitments	320
2030 GHG Target	260
Gap to 2030 Target	60

Source: CARB 2017c.

Table 10 provides estimated GHG emissions by sector, compared to 1990 levels, and the range of GHG emissions for each sector estimated for 2030.

Table 10 2017 Climate Change Scoping Plan Emissions Change by Sector

Scoping Plan Sector	1990 $MMTCO_2e$	2030 Proposed Plan Ranges $MMTCO_2e$	% Change from 1990
Agricultural	26	24-25	-8% to -4%
Residential and Commercial	44	38-40	-14% to -9%
Electric Power	108	30-53	-72% to -51%
High GWP	3	8-11	267% to 367%
Industrial	98	83-90	-15% to -8%
Recycling and Waste	7	8-9	14% to 29%
Transportation (including TCU)	152	103-111	-32% to -27%
Net Sink[1]	-7	TBD	TBD
Sub Total	431	294-339	-32% to -21%
Cap-and-Trade Program	NA	24-79	NA
Total	431	260	-40%

Source: CARB 2017c.
Notes: TCU = Transportation, Communications, and Utilities; TBD: To Be Determined.
[1] Work is underway through 2017 to estimate the range of potential sequestration benefits from the natural and working lands sector.

Senate Bill 1383

On September 19, 2016, the Governor signed SB 1383 to supplement the GHG reduction strategies in the Scoping Plan to consider short-lived climate pollutants, including black carbon and CH_4. Black carbon is the light-absorbing component of fine particulate matter produced during incomplete combustion of fuels. SB 1383 requires the state board, no later than January 1, 2018, to approve and begin implementing that comprehensive strategy to reduce emissions of short-lived climate pollutants to achieve a reduction in methane by 40 percent, hydrofluorocarbon gases by 40 percent, and anthropogenic black carbon by 50 percent below 2013 levels by 2030, as specified. The bill also establishes targets for reducing organic waste in landfill. On March 14, 2017, CARB adopted the "Final Proposed Short-Lived Climate Pollutant Reduction Strategy," which identifies the state's approach to reducing anthropogenic and biogenic sources of short-lived climate pollutants. Anthropogenic sources of black carbon include on- and off-road transportation, residential wood burning, fuel combustion (charbroiling), and industrial processes. According to CARB, ambient levels of black carbon in California are 90 percent lower than in the early 1960s despite the tripling of diesel fuel use (CARB 2017b). In-

use on-road rules are expected to reduce black carbon emissions from on-road sources by 80 percent between 2000 and 2020. South Coast AQMD is one of the air districts that requires air pollution control technologies for chain-driven broilers, which reduces particulate emissions from these charbroilers by over 80 percent (CARB 2017b). Additionally, South Coast AQMD Rule 445 limits installation of new fireplaces in the SoCAB.

Senate Bill 375

In 2008, SB 375, the Sustainable Communities and Climate Protection Act, was adopted to connect the GHG emissions reductions targets established in the 2008 Scoping Plan for the transportation sector to local land use decisions that affect travel behavior. Its intent is to reduce GHG emissions from light-duty trucks and automobiles (excludes emissions associated with goods movement) by aligning regional long-range transportation plans, investments, and housing allocations to local land use planning to reduce VMT and vehicle trips. Specifically, SB 375 required CARB to establish GHG emissions reduction targets for each of the 18 metropolitan planning organizations (MPOs). The Southern California Association of Governments (SCAG) is the MPO for the Southern California region, which includes the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial.

Pursuant to the recommendations of the Regional Transportation Advisory Committee, CARB adopted per capita reduction targets for each of the MPOs rather than a total magnitude reduction target. SCAG's targets are an 8 percent per capita reduction from 2005 GHG emission levels by 2020 and a 13 percent per capita reduction from 2005 GHG emission levels by 2035 (CARB 2010). The 2020 targets are smaller than the 2035 targets because a significant portion of the built environment in 2020 has been defined by decisions that have already been made. In general, the 2020 scenarios reflect that more time is needed for large land use and transportation infrastructure changes. Most of the reductions in the interim are anticipated to come from improving the efficiency of the region's transportation network. The targets would result in 3 $MMTCO_2e$ of reductions by 2020 and 15 $MMTCO_2e$ of reductions by 2035. Based on these reductions, the passenger vehicle target in CARB's Scoping Plan (for AB 32) would be met (CARB 2010).

2017 Update to the SB 375 Targets

CARB is required to update the targets for the MPOs every eight years. In June 2017, CARB released updated targets and technical methodology and recently released another update in February 2018. The updated targets consider the need to further reduce VMT, as identified in the 2017 Scoping Plan Update, while balancing the need for additional and more flexible revenue sources to incentivize positive planning and action toward sustainable communities. Like the 2010 targets, the updated SB 375 targets are in units of percent per capita reduction in GHG emissions from automobiles and light trucks relative to 2005. This excludes reductions anticipated from implementation of state technology and fuels strategies and any potential future state strategies such as statewide road user pricing. The proposed targets call for greater per capita GHG emission reductions from SB 375 than are currently in place, which for 2035, translate into proposed targets that either match or exceed the emission reduction levels in the MPOs' currently adopted SCSs. As proposed, CARB staff's proposed targets would result in an additional reduction of over 8 $MMTCO_2e$ in 2035 compared to the current targets. For the next round of SCS updates, CARB's updated targets for the SCAG region are an 8 percent per capita GHG reduction in 2020 from 2005 levels (unchanged from the 2010 target) and a 19 percent per capita GHG reduction in 2035 from 2005 levels (compared to the 2010 target of 13 percent) (CARB 2018). CARB

adopted the updated targets and methodology on March 22, 2018. All SCSs adopted after October 1, 2018 are subject to these new targets.

SCAG's Regional Transportation Plan / Sustainable Communities Strategy

SB 375 requires each MPO to prepare a sustainable communities strategy in its regional transportation plan. For the SCAG region, the draft 2020-2045 RTP/SCS (Connect SoCal) was adopted on May 7, 2020 for the limited purpose of transportation conformity (SCAG 2020). The Connect SoCal Plan was fully adopted in September 2020. In general, the SCS outlines a development pattern for the region that, when integrated with the transportation network and other transportation measures and policies, would reduce vehicle miles traveled from automobiles and light duty trucks and thereby reduce GHG emissions from these sources.

Connect SoCal focuses on the continued efforts of the previous RTP/SCSs to integrate transportation and land use strategies in development of the SCAG region through horizon year 2045 (SCAG 2020). Connect SoCal forecasts that the SCAG region will meet its GHG per capita reduction targets of 8 percent by 2020 and 19 percent by 2035. Additionally, Connect SoCal also forecasts that implementation of the plan will reduce VMT per capita in year 2045 by 4.1 percent compared to baseline conditions for that year. Connect SoCal includes a "Core Vision" that centers on maintaining and better managing the transportation network for moving people and goods while expanding mobility choices by locating housing, jobs, and transit closer together and increasing investments in transit and complete streets.

Assembly Bill 1493

California vehicle GHG emission standards were enacted under AB 1493 (Pavley I). Pavley I is a clean-car standard that reduces GHG emissions from new passenger vehicles (light-duty auto to medium-duty vehicles) from 2009 through 2016 and was anticipated to reduce GHG emissions from new passenger vehicles by 30 percent in 2016. California implements the Pavley I standards through a waiver granted to California by the EPA. In 2012, the EPA issued a Final Rulemaking that sets even more stringent fuel economy and GHG emissions standards for model year 2017 through 2025 light-duty vehicles (see also the discussion on the update to the Corporate Average Fuel Economy standards under *Federal Laws*, above). In January 2012, CARB approved the Advanced Clean Cars program (formerly known as Pavley II) for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single package of standards. Under California's Advanced Clean Car program, by 2025, new automobiles will emit 34 percent fewer global warming gases and 75 percent fewer smog-forming emissions.

Executive Order S-01-07

On January 18, 2007, the state set a new LCFS for transportation fuels sold in the state. Executive Order S-01-07 sets a declining standard for GHG emissions measured in carbon dioxide equivalent gram per unit of fuel energy sold in California. The LCFS requires a reduction of 2.5 percent in the carbon intensity of California's transportation fuels by 2015 and a reduction of at least 10 percent by 2020. The standard applies to refiners, blenders, producers, and importers of transportation fuels, and would use market-based mechanisms to allow these providers to choose how they reduce emissions during the "fuel cycle" using the most economically feasible methods.

Senate Bills 1078, 107, X1-2, and Executive Order S-14-08

A major component of California's Renewable Energy Program is the RPS established under Senate Bills 1078 (Sher) and 107 (Simitian). Under the RPS, certain retail sellers of electricity were required to increase the amount of renewable energy each year by at least 1 percent in order to reach at least 20 percent by December 30, 2010. Executive Order S-14-08 was signed in November 2008, which expanded the state's Renewable Energy Standard to 33 percent renewable power by 2020. This standard was adopted by the legislature in 2011 (SB X1-2). Renewable sources of electricity include wind, small hydropower, solar, geothermal, biomass, and biogas. The increase in renewable sources for electricity production will decrease indirect GHG emissions from development projects, because electricity production from renewable sources is generally considered carbon neutral.

Senate Bill 350

Senate Bill 350 (de Leon), was signed into law in September 2015. SB 350 establishes tiered increases to the RPS of 40 percent by 2024, 45 percent by 2027, and 50 percent by 2030. SB 350 also set a new goal to double the energy efficiency savings in electricity and natural gas through energy efficiency and conservation measures.

Senate Bill 100

On September 10, 2018, Governor Brown signed SB 100, which raises California's RPS requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a state policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all state agencies by December 31, 2045. Under the bill, the state cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Executive Order B-55-18

Executive Order B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." Executive Order B-55-18 directs CARB to work with relevant state agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO_2e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Executive Order B-16-2012

On March 23, 2012, the state identified that CARB, the California Energy Commission (CEC), the Public Utilities Commission, and other relevant agencies worked with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to accommodate zero-emissions vehicles in major metropolitan areas, including infrastructure to support them (e.g., electric vehicle charging stations). The executive order also directs the number of zero-emission vehicles in California's state vehicle fleet to increase through the normal course of fleet replacement so that at least 10 percent of fleet purchases of light-duty vehicles are zero-emission by 2015 and at least 25 percent by 2020. The executive order also establishes a target

for the transportation sector of reducing GHG emissions from the transportation sector 80 percent below 1990 levels.

Executive Order N-79-20

On September 23, 2020 Governor Newsom signed Executive Order N-79-20 which identifies a goal that 100 percent of in-state sales of new passenger cars and trucks will be zero-emission by 2035. Additionally, this Executive Order identified fleet goals for trucks of 100 percent of drayage trucks be zero emissions by 2035 and 100 percent of medium- and heavy-duty vehicles in the State be zero-emission by 2045, for all operations where feasible. Additionally, the Executive Order identifies a goal for the State to transition to 100 percent zero-emission off-road vehicles and equipment by 2035 where feasible.

California Building Code: Building Energy Efficiency Standards

Energy conservation standards for new residential and non-residential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the CEC) in June 1977 and most recently revised in 2019 (Title 24, Part 6, of the California Code of Regulations [CCR]). Title 24 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods. The 2019 Building Energy Efficiency Standards, which were adopted on May 9, 2018, went into effect on January 1, 2020.

The 2019 standards move towards cutting energy use in new homes by more than 50 percent and will require installation of solar photovoltaic systems for single-family homes and multi-family buildings of 3 stories and less. Four key areas the 2019 standards will focus on include 1) smart residential photovoltaic systems; 2) updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa); 3) residential and nonresidential ventilation requirements; 4) and nonresidential lighting requirements (CEC 2018a). Under the 2019 standards, nonresidential buildings and multifamily residential buildings of four stories or more will be 30 percent more energy efficient compared to the 2016 standards while single-family homes will be 7 percent more energy efficient (CEC 2018b). When accounting for the electricity generated by the solar photovoltaic system, single-family homes would use 53 percent less energy compared to homes built to the 2016 standards (CEC 2018b).

California Building Code: CALGreen

On July 17, 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (24 CCR, Part 11, known as "CALGreen") was adopted as part of the California Building Standards Code. CALGreen established planning and design standards for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants.[13] The mandatory provisions of CALGreen became effective January 1, 2011. The CEC adopted the voluntary standards of the 2019 CALGreen on October 3, 2018. The 2019 CALGreen standards become effective January 1, 2020.

[13] The green building standards became mandatory in the 2010 edition of the code.

2006 Appliance Efficiency Regulations

The 2006 Appliance Efficiency Regulations (20 CCR §§ 1601–1608) were adopted by the CEC on October 11, 2006, and approved by the California Office of Administrative Law on December 14, 2006. The regulations include standards for both federally regulated appliances and non–federally regulated appliances. Though these regulations are now often viewed as "business as usual," they exceed the standards imposed by all other states, and they reduce GHG emissions by reducing energy demand.

Solid Waste Regulations

California's Integrated Waste Management Act of 1989 (AB 939; Public Resources Code §§ 40050 et seq.) set a requirement for cities and counties throughout the state to divert 50 percent of all solid waste from landfills by January 1, 2000, through source reduction, recycling, and composting. In 2008, the requirements were modified to reflect a per capita requirement rather than tonnage. To help achieve this, the act requires that each city and county prepare and submit a source reduction and recycling element. AB 939 also established the goal for all California counties to provide at least 15 years of ongoing landfill capacity.

AB 341 (Chapter 476, Statutes of 2011) increased the statewide goal for waste diversion to 75 percent by 2020 and requires recycling of waste from commercial and multifamily residential land uses. Section 5.408 of the CALGreen also requires that at least 65 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse.

The California Solid Waste Reuse and Recycling Access Act (AB 1327; Public Resources Code §§ 42900 et seq.) requires areas to be set aside for collecting and loading recyclable materials in development projects. The act required the California Integrated Waste Management Board to develop a model ordinance for adoption by any local agency requiring adequate areas for collection and loading of recyclable materials as part of development projects. Local agencies are required to adopt the model or an ordinance of their own.

Section 5.408 of the 2019 CALGreen also requires that at least 65 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse.

In October of 2014, Governor Brown signed AB 1826, requiring businesses to recycle their organic waste on and after April 1, 2016, depending on the amount of waste they generate per week. This law also requires that on and after January 1, 2016, local jurisdictions across the state implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. Organic waste means food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste.

Water Efficiency Regulations

The 20x2020 Water Conservation Plan was issued by the Department of Water Resources (DWR) in 2010 pursuant to Senate Bill 7, which was adopted during the 7th Extraordinary Session of 2009–2010 and therefore dubbed "SBX7-7." SBX7-7 mandated urban water conservation and authorized the DWR to prepare a plan implementing urban water conservation requirements (20x2020 Water Conservation Plan). In addition, it required agricultural water providers to prepare agricultural water management plans, measure water deliveries

to customers, and implement other efficiency measures. SBX7-7 requires urban water providers to adopt a water conservation target of 20 percent reduction in urban per capita water use by 2020 compared to 2005 baseline use.

The Water Conservation in Landscaping Act of 2006 (AB 1881) requires local agencies to adopt the updated DWR model ordinance or equivalent. AB 1881 also requires the CEC to consult with the DWR to adopt, by regulation, performance standards and labeling requirements for landscape irrigation equipment, including irrigation controllers, moisture sensors, emission devices, and valves to reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy or water.

Local Regulations

Fullerton Climate Action Plan

The City of Fullerton prepared a Climate Action Plan (CAP) as part of the General Plan to summarize the City of Fullerton's GHG emissions and actions taken to mitigate those emissions (Fullerton 2012). The Fullerton Climate Action Plan identifies a reduction target for the City to reduce GHG emissions to 15 percent below 2009 levels by 2020. The CAP is intended to address the main sources of the emissions that cause climate change, which include emissions from the energy consumed in buildings and for transportation, as well as the solid waste sent to landfills. In addition, the purpose of the CAP is to guide the development, enhancement, and ultimately the implementation of actions that will reduce the City's GHG emissions. The strategies established by the City's CAP aim to reduce emissions as they pertain to transportation, energy use, water use, and solid waste reduction.

Thresholds of Significance

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

1. The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;

2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;

3. The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions.[14]

[14] The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

To provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, South Coast AQMD has convened a GHG CEQA Significance Threshold Working Group (Working Group). Based on the last Working Group meeting (Meeting No. 15) held in September 2010, South Coast AQMD is proposing to adopt a tiered approach for evaluating GHG emissions for development projects where South Coast AQMD is not the lead agency (South Coast AQMD 2010):

- **Tier 1.** If a project is exempt from CEQA, project-level and cumulative GHG emissions are less than significant.

- **Tier 2.** If the project complies with a GHG emissions reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (i.e., city or county), project-level and cumulative GHG emissions are less than significant.

- **Tier 3.** If GHG emissions are less than the screening-level threshold, project-level and cumulative GHG emissions are less than significant.

  For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, South Coast AQMD requires an assessment of GHG emissions. South Coast AQMD is proposing a screening-level threshold of 3,000 $MTCO_2e$ annually for all land use types or the following land-use-specific thresholds: 1,400 $MTCO_2e$ for commercial projects, 3,500 $MTCO_2e$ for residential projects, or 3,000 $MTCO_2e$ for mixed-use projects. These bright-line thresholds are based on a review of the Governor's Office of Planning and Research database of CEQA projects. Based on their review of 711 CEQA projects, 90 percent of CEQA projects would exceed the bright-line thresholds identified above. Therefore, projects that do not exceed the bright-line threshold would have a nominal, and therefore, less than cumulatively considerable impact on GHG emissions:

- **Tier 4.** If emissions exceed the screening threshold, a more detailed review of the project's GHG emissions is warranted.

  The South Coast AQMD Working Group has identified an efficiency target for projects that exceed the screening threshold of 4.8 $MTCO_2e$ per year per service population ($MTCO_2e$/year/SP) for project-level analyses and 6.6 $MTCO_2e$/year/SP for plan level projects (e.g., program-level projects such as general plans) for the year 2020.[15] The per capita efficiency targets are based on the AB 32 GHG reduction target and 2020 GHG emissions inventory prepared for CARB's 2008 Scoping Plan.

For purposes of this analysis, because the proposed project has an anticipated opening year post-2020 (year 2021), the bright-line screening-level criterion of 3,000 $MTCO_2e$/yr is used as the significance threshold for this project. Therefore, if the project operation-phase emissions exceed the 3,000 $MTCO_2e$/yr threshold, GHG emissions would be considered potentially significant in the absence of mitigation measures.

[15] It should be noted that the Working Group also considered efficiency targets for 2035 for the first time in this Working Group meeting.

BIBLIOGRAPHY

Bay Area Air Quality Management District (BAAQMD). 2017, May. California Environmental Quality Act Air Quality Guidelines.

California Air Pollution Control Officers Association (CAPCOA). 2017. California Emissions Estimator Model (CalEEMod). Version 2016.3.2. Prepared by: BREEZE Software, A Division of Trinity Consultants in collaboration with South Coast Air Quality Management District and the California Air Districts.

California Air Resources Board (CARB). 1998, April 22. The Report on Diesel Exhaust. http://www.arb.ca.gov/toxics/dieseltac/de-fnds.htm.

———. 1999. California Air Resources Board (CARB). Final Staff Report: Update to the Toxic Air Contaminant List.

———. 2005, April. Air Quality and Land Use Handbook: A Community Health Perspective. https://www.arb.ca.gov/ch/handbook.pdf.

———. 2008, October. Climate Change Proposed Scoping Plan, a Framework for Change.

———. 2010, September. Staff Report Proposed Regional Greenhouse Gas Emission Reduction Targets for Automobiles and Light Trucks Pursuant to Senate Bill 375. https://ww3.arb.ca.gov/cc/sb375/staffreport_sb375080910.pdf.

———. 2014, May 15. First Update to the Climate Change Scoping Plan: Building on the Framework, Pursuant to AB 32, The California Global Warming Solutions Act of 2006. http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm.

———. 2016, October 1. Ambient Air Quality Standards. http://www.arb.ca.gov/research/aaqs/aaqs2.pdf.

———. 2017a, March 14. Final Proposed Short-Lived Climate Pollutant Reduction Strategy. https://www.arb.ca.gov/cc/shortlived/shortlived.htm.

———. 2017c, November. California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Target. https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf.

———. 2018, February. Proposed Update to the SB 375 Greenhouse Gas Emission Reduction Targets. https://www.arb.ca.gov/cc/sb375/sb375_target_update_final_staff_report_feb2018.pdf.

———. 2019, August. Area Designations Maps/State and National. http://www.arb.ca.gov/desig/desig.htm.

———. 2020a. 2020 California Greenhouse Gas 2000-2018 Emissions Trends and Indicators Report. https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2018/ghg_inventory_trends_00-18.pdf.

———. 2020b, September 5 (accessed). California and major automakers reach groundbreaking framework agreement on clean emission standards. https://ww2.arb.ca.gov/news/california-and-major-automakers-reach-groundbreaking-framework-agreement-clean-emission.

———. 2021, March 10 (accessed). Air Pollution Data Monitoring Cards (2015, 2016, 2017, 2018, and 2019). http://www.arb.ca.gov/adam/topfour/topfour1.php.

California Energy Commission (CEC). 2018a. News Release: Energy Commission Adopts Standards Requiring Solar Systems for New Homes, First in Nation. https://www.energy.ca.gov/news/2018-05/energy-commission-adopts-standards-requiring-solar-systems-new-homes-first.

———.2018b. 2019 Building Energy and Efficiency Standards Frequently Asked Questions. https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf.

Fullerton, City of. 2012, February. Appendix H: Climate Action Plan. https://www.cityoffullerton.com/civicax/filebank/blobdload.aspx?blobid=8991.

Intergovernmental Panel on Climate Change (IPCC). 1995. Second Assessment Report: Climate Change 1995. https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_sar_wg_I_full_report.pdf.

———. 2001. Third Assessment Report: Climate Change 2001. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/03/WGI_TAR_full_report.pdf.

———. 2007. Fourth Assessment Report: Climate Change 2007. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/02/ar4_syr_full_report.pdf.

———. 2013. Fifth Assessment Report: Climate Change 2013. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_all_final.pdf.

South Coast Air Quality Management District (South Coast AQMD). 1992. Federal Attainment Plan for Carbon Monoxide.

———. 1993. California Environmental Quality Act Air Quality Handbook.

———. 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

———. 2008a, July. Final Localized Significance Threshold Methodology.

———. 2008b, September. Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES III). https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-iii.

———.2011. Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2.

———. 2010, September 28. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 15. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf.

———. 2012, May 4. Final 2012 Lead State Implementation Plan: Los Angeles County. http://www3.aqmd.gov/hb/attachments/2011-2015/2012May/2012-May4-030.pdf.

———. 2013, February. 2012 Final Air Quality Management Plan. https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-(february-2013)/main-document-final-2012.pdf.

———. 2015a, October 3. Final Report Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES IV). https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-iv.

———. 2015b. Health Effects of Air Pollution. http://www.aqmd.gov/docs/default-source/publications/brochures/the-health-effects-of-air-pollution-brochure.pdf.

———. 2015c, October. "Blueprint for Clean Air: 2016 AQMP White Paper." 2016 AQMP White Papers Web Page. https://www.aqmd.gov/nav/about/groups-committees/aqmp-advisory-group/2016-aqmp-white-papers/Blueprint.

———. 2017, March 4. Final 2016 Air Quality Management Plan. https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=15.

———. 2019, April (revised). South Coast AQMD Air Quality Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

Southern California Association of Governments (SCAG). 2016, April. The 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS): A Plan for Mobility, Accessibility, Sustainability, and a High Quality of Life. http://scagrtpscs.net/Documents/2016/final/f2016RTPSCS.pdf.

———. 2020, May 7. Adopted Connect SoCal Plan: The 2020-2045 Regional Transportation Plan / Sustainable Communities Strategy of The Southern California Association of Governments. https://www.connectsocal.org/Pages/Connect-SoCal-Final-Plan.aspx

US Environmental Protection Agency (USEPA). 2009, December. EPA: Greenhouse Gases Threaten Public Health and the Environment. Science overwhelmingly shows greenhouse gas concentrations at

unprecedented levels due to human activity. https://archive.epa.gov/epapages/newsroom_archive/newsreleases/08d11a451131bca585257685005bf252.html.

———. 2020, September 10 (accessed). Overview of Greenhouse Gases. http://www3.epa.gov/climatechange/ghgemissions/gases.html.

———. US Environmental Protection Agency (USEPA). 2021, February 18 (updated). Criteria Air Pollutants. https://www.epa.gov/criteria-air-pollutants

Western Regional Climate Center (WRCC). 2021, March 3 (accessed). Yorba Linda, California ([Station ID] 049847): Period of Record Monthly Climate Summary, 10/01/1912 to 06/10/2016. Western U.S. Climate Summaries. https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca9847.

Emissions Worksheet

Regional Construction Emissions Worksheet:

Building and Asphalt Demolition and Demolition Reprocessing 2022		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	0.85	7.82	7.42	0.03	0.27	0.25
	Total	**0.85**	**7.82**	**7.42**	**0.03**	**0.27**	**0.25**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.03	0.02	0.28	0.00	0.10	0.03
	Total	**0.04**	**0.20**	**0.33**	**0.00**	**0.12**	**0.03**
TOTAL		***0.88***	***8.02***	***7.75***	***0.03***	***0.38***	***0.28***
Onsite	**2022 Winter**						
	Off-Road	0.85	7.82	7.42	0.03	0.27	0.25
	Total	**0.85**	**7.82**	**7.42**	**0.03**	**0.27**	**0.25**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.04	0.02	0.26	0.00	0.10	0.03
	Total	**0.04**	**0.20**	**0.32**	**0.00**	**0.12**	**0.03**
TOTAL		***0.89***	***8.02***	***7.73***	***0.03***	***0.38***	***0.28***
Onsite	**2022**						
	Off-Road	0.85	7.82	7.42	0.03	0.27	0.25
	Total	**0.85**	**7.82**	**7.42**	**0.03**	**0.27**	**0.25**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.04	0.02	0.28	0.00	0.10	0.03
	Total	**0.04**	**0.20**	**0.33**	**0.00**	**0.12**	**0.03**
TOTAL		***0.89***	***8.02***	***7.75***	***0.03***	***0.38***	***0.28***

Building Demolition Debris Haul 2022		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Summer						
	Fugitive Dust					0.60	0.09
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.60**	**0.09**
Offsite							
	Hauling	0.04	1.52	0.46	0.00	0.11	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**1.52**	**0.46**	**0.00**	**0.11**	**0.03**
TOTAL		***0.04***	***1.52***	***0.46***	***0.00***	***0.71***	***0.12***
Onsite	**2022** Winter						
	Fugitive Dust					0.57	0.09
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.57**	**0.09**
Offsite							
	Hauling	0.04	1.47	0.46	0.00	0.11	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**1.47**	**0.46**	**0.00**	**0.11**	**0.03**
TOTAL		***0.04***	***1.47***	***0.46***	***0.00***	***0.67***	***0.12***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.60	0.09
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.60**	**0.09**
Offsite							
	Hauling	0.04	1.52	0.46	0.00	0.11	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**1.52**	**0.46**	**0.00**	**0.11**	**0.03**
TOTAL		***0.04***	***1.52***	***0.46***	***0.00***	***0.71***	***0.12***

Asphalt Demolition Debris Haul 2022

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Summer						
	Fugitive Dust						0.70	0.11
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.70**	**0.11**
Offsite								
	Hauling		0.05	1.79	0.54	0.01	0.13	0.04
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.05**	**1.79**	**0.54**	**0.01**	**0.13**	**0.04**
TOTAL			***0.05***	***1.79***	***0.54***	***0.01***	***0.83***	***0.15***
Onsite		**2022** Winter						
	Fugitive Dust						0.67	0.10
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.67**	**0.10**
Offsite								
	Hauling		0.05	1.73	0.54	0.01	0.12	0.04
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.05**	**1.73**	**0.54**	**0.01**	**0.12**	**0.04**
TOTAL			***0.05***	***1.73***	***0.54***	***0.01***	***0.79***	***0.14***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.70	0.11
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.70**	**0.11**
Offsite								
	Hauling		0.05	1.79	0.54	0.01	0.13	0.04
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.05**	**1.79**	**0.54**	**0.01**	**0.13**	**0.04**
TOTAL			***0.05***	***1.79***	***0.54***	***0.01***	***0.83***	***0.15***

Site Preparation

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Summer						
	Fugitive Dust						0.00	0.00
	Off-Road		0.48	4.61	8.08	0.01	0.21	0.19
	Total		**0.48**	**4.61**	**8.08**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.03	0.02	0.23	0.00	0.08	0.02
	Total		**0.03**	**0.19**	**0.28**	**0.00**	**0.10**	**0.03**
TOTAL			***0.52***	***4.80***	***8.36***	***0.01***	***0.31***	***0.22***
Onsite		**2022** Winter						
	Fugitive Dust						0.00	0.00
	Off-Road		0.48	4.61	8.08	0.01	0.21	0.19
	Total		**0.48**	**4.61**	**8.08**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.03	0.02	0.21	0.00	0.08	0.02
	Total		**0.04**	**0.19**	**0.26**	**0.00**	**0.10**	**0.03**
TOTAL			***0.52***	***4.80***	***8.35***	***0.01***	***0.31***	***0.22***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.48	4.61	8.08	0.01	0.21	0.19
	Total		**0.48**	**4.61**	**8.08**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.03	0.02	0.23	0.00	0.08	0.02
	Total		**0.04**	**0.19**	**0.28**	**0.00**	**0.10**	**0.03**
TOTAL			***0.52***	***4.80***	***8.36***	***0.01***	***0.31***	***0.22***

Rough Grading

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Summer						
	Fugitive Dust						3.71	1.54
	Off-Road		4.30	46.26	30.04	0.06	1.93	1.77
	Total		**4.30**	**46.26**	**30.04**	**0.06**	**5.63**	**3.31**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.05	0.03	0.43	0.00	0.16	0.04
	Total		**0.06**	**0.21**	**0.47**	**0.00**	**0.17**	**0.05**
TOTAL			***4.36***	***46.47***	***30.51***	***0.06***	***5.80***	***3.36***
Onsite		**2022** Winter						
	Fugitive Dust						3.71	1.54
	Off-Road		4.30	46.26	30.04	0.06	1.93	1.77
	Total		**4.30**	**46.26**	**30.04**	**0.06**	**5.63**	**3.31**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.06	0.03	0.39	0.00	0.16	0.04
	Total		**0.06**	**0.21**	**0.45**	**0.00**	**0.17**	**0.05**
TOTAL			***4.36***	***46.47***	***30.48***	***0.06***	***5.80***	***3.36***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	3.71	1.54
	Off-Road		4.30	46.26	30.04	0.06	1.93	1.77
	Total		**4.30**	**46.26**	**30.04**	**0.06**	**5.63**	**3.31**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.06	0.03	0.43	0.00	0.16	0.04
	Total		**0.06**	**0.21**	**0.47**	**0.00**	**0.17**	**0.05**
TOTAL			***4.36***	***46.47***	***30.51***	***0.06***	***5.80***	***3.36***

Rough Grading Soil Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Summer						
	Fugitive Dust						0.04	0.01
	Off-Road		0.67	6.12	4.91	0.02	0.21	0.19
	Total		**0.67**	**6.12**	**4.91**	**0.02**	**0.25**	**0.20**
Offsite								
	Hauling		0.68	23.36	7.02	0.07	1.69	0.51
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.14	0.00	0.05	0.01
	Total		**0.70**	**23.37**	**7.16**	**0.07**	**1.74**	**0.53**
TOTAL			***1.37***	***29.49***	***12.07***	***0.10***	***1.99***	***0.73***
Onsite		**2022** Winter						
	Fugitive Dust						0.04	0.01
	Off-Road		0.67	6.12	4.91	0.02	0.21	0.19
	Total		**0.67**	**6.12**	**4.91**	**0.02**	**0.25**	**0.20**
Offsite								
	Hauling		0.70	23.61	7.35	0.07	1.69	0.51
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.13	0.00	0.05	0.01
	Total		**0.72**	**23.62**	**7.48**	**0.07**	**1.74**	**0.53**
TOTAL			***1.39***	***29.75***	***12.39***	***0.10***	***1.99***	***0.73***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.04	0.01
	Off-Road		0.67	6.12	4.91	0.02	0.21	0.19
	Total		**0.67**	**6.12**	**4.91**	**0.02**	**0.25**	**0.20**
Offsite								
	Hauling		0.70	23.61	7.35	0.07	1.69	0.51
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.14	0.00	0.05	0.01
	Total		**0.72**	**23.62**	**7.48**	**0.07**	**1.74**	**0.53**
TOTAL			***1.39***	***29.75***	***12.39***	***0.10***	***1.99***	***0.73***

Ground/Soil Improvements

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Summer						
	Fugitive Dust					0.00	0.00
	Off-Road	0.39	3.94	4.28	0.01	0.16	0.15
	Total	**0.39**	**3.94**	**4.28**	**0.01**	**0.16**	**0.15**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.14	0.00	0.05	0.01
	Total	**0.02**	**0.01**	**0.14**	**0.00**	**0.05**	**0.01**
TOTAL		***0.41***	***3.95***	***4.42***	***0.01***	***0.21***	***0.16***
Onsite	**2022** Winter						
	Fugitive Dust					0.00	0.00
	Off-Road	0.39	3.94	4.28	0.01	0.16	0.15
	Total	**0.39**	**3.94**	**4.28**	**0.01**	**0.16**	**0.15**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.05	0.01
	Total	**0.02**	**0.01**	**0.13**	**0.00**	**0.05**	**0.01**
TOTAL		***0.41***	***3.95***	***4.41***	***0.01***	***0.21***	***0.16***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.39	3.94	4.28	0.01	0.16	0.15
	Total	**0.39**	**3.94**	**4.28**	**0.01**	**0.16**	**0.15**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.14	0.00	0.05	0.01
	Total	**0.02**	**0.01**	**0.14**	**0.00**	**0.05**	**0.01**
TOTAL		***0.41***	***3.95***	***4.42***	***0.01***	***0.21***	***0.16***

Fine Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Summer						
	Fugitive Dust					0.68	0.07
	Off-Road	1.31	14.95	8.72	0.02	0.55	0.50
	Total	**1.31**	**14.95**	**8.72**	**0.02**	**1.23**	**0.58**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.03	0.02	0.23	0.00	0.08	0.02
	Total	**0.03**	**0.19**	**0.28**	**0.00**	**0.10**	**0.03**
TOTAL		***1.34***	***15.14***	***8.99***	***0.02***	***1.32***	***0.60***
Onsite	**2022** Winter						
	Fugitive Dust					0.68	0.07
	Off-Road	1.31	14.95	8.72	0.02	0.55	0.50
	Total	**1.31**	**14.95**	**8.72**	**0.02**	**1.23**	**0.58**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.03	0.02	0.21	0.00	0.08	0.02
	Total	**0.04**	**0.19**	**0.26**	**0.00**	**0.10**	**0.03**
TOTAL		***1.34***	***15.15***	***8.98***	***0.02***	***1.32***	***0.60***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.68	0.07
	Off-Road	1.31	14.95	8.72	0.02	0.55	0.50
	Total	**1.31**	**14.95**	**8.72**	**0.02**	**1.23**	**0.58**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.03	0.02	0.23	0.00	0.08	0.02
	Total	**0.04**	**0.19**	**0.28**	**0.00**	**0.10**	**0.03**
TOTAL		***1.34***	***15.15***	***8.99***	***0.02***	***1.32***	***0.60***

Fine Grading Soil Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Summer						
	Fugitive Dust						0.01	0.00
	Off-Road		0.31	3.17	1.90	0.01	0.11	0.10
	Total		**0.31**	**3.17**	**1.90**	**0.01**	**0.12**	**0.10**
Offsite								
	Hauling		0.17	5.84	1.76	0.02	0.42	0.13
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.18**	**5.85**	**1.84**	**0.02**	**0.45**	**0.14**
TOTAL			***0.49***	***9.01***	***3.74***	***0.03***	***0.57***	***0.24***
Onsite		**2022** Winter						
	Fugitive Dust						0.01	0.00
	Off-Road		0.31	3.17	1.90	0.01	0.11	0.10
	Total		**0.31**	**3.17**	**1.90**	**0.01**	**0.12**	**0.10**
Offsite								
	Hauling		0.18	5.90	1.84	0.02	0.42	0.13
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.01	0.01	0.08	0.00	0.03	0.01
	Total		**0.19**	**5.91**	**1.92**	**0.02**	**0.45**	**0.14**
TOTAL			***0.49***	***9.08***	***3.81***	***0.03***	***0.57***	***0.24***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.01	0.00
	Off-Road		0.31	3.17	1.90	0.01	0.11	0.10
	Total		**0.31**	**3.17**	**1.90**	**0.01**	**0.12**	**0.10**
Offsite								
	Hauling		0.18	5.90	1.84	0.02	0.42	0.13
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.19**	**5.91**	**1.92**	**0.02**	**0.45**	**0.14**
TOTAL			***0.49***	***9.08***	***3.81***	***0.03***	***0.57***	***0.24***

Utilities Trenching

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**						
	Off-Road		1.09	10.69	11.47	0.03	0.45	0.41
	Total		**1.09**	**10.69**	**11.47**	**0.03**	**0.45**	**0.41**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.05	0.03	0.43	0.00	0.16	0.04
	Total		**0.05**	**0.03**	**0.43**	**0.00**	**0.16**	**0.04**
TOTAL			***1.14***	***10.72***	***11.89***	***0.03***	***0.60***	***0.45***
Onsite		**2022 Winter**						
	Off-Road		1.09	10.69	11.47	0.03	0.45	0.41
	Total		**1.09**	**10.69**	**11.47**	**0.03**	**0.45**	**0.41**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.06	0.03	0.39	0.00	0.16	0.04
	Total		**0.06**	**0.03**	**0.39**	**0.00**	**0.16**	**0.04**
TOTAL			***1.15***	***10.73***	***11.86***	***0.03***	***0.60***	***0.45***
Onsite		**2022**						
	Off-Road		1.09	10.69	11.47	0.03	0.45	0.41
	Total		**1.09**	**10.69**	**11.47**	**0.03**	**0.45**	**0.41**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.06	0.03	0.43	0.00	0.16	0.04
	Total		**0.06**	**0.03**	**0.43**	**0.00**	**0.16**	**0.04**
TOTAL			***1.15***	***10.73***	***11.89***	***0.03***	***0.60***	***0.45***

Building Construction 2022

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.21	7.28	2.01	0.02	0.50	0.16
	Worker	1.35	0.78	11.23	0.04	4.11	1.11
	Total	**1.56**	**8.06**	**13.24**	**0.06**	**4.61**	**1.27**
TOTAL		***1.56***	***8.06***	***13.24***	***0.06***	***4.61***	***1.27***
Onsite	**2022 Winter**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.22	7.26	2.21	0.02	0.50	0.16
	Worker	1.53	0.86	10.34	0.04	4.11	1.11
	Total	**1.75**	**8.12**	**12.55**	**0.06**	**4.61**	**1.27**
TOTAL		***1.75***	***8.12***	***12.55***	***0.06***	***4.61***	***1.27***
Onsite	**2022**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.22	7.28	2.21	0.02	0.50	0.16
	Worker	1.53	0.86	11.23	0.04	4.11	1.11
	Total	**1.75**	**8.12**	**13.24**	**0.06**	**4.61**	**1.27**
TOTAL		***1.75***	***8.12***	***13.24***	***0.06***	***4.61***	***1.27***

Building Construction 2023

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023 Summer**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.16	5.49	1.88	0.02	0.50	0.15
	Worker	1.28	0.71	10.47	0.04	4.11	1.11
	Total	**1.44**	**6.20**	**12.35**	**0.06**	**4.60**	**1.26**
TOTAL		***1.44***	***6.20***	***12.35***	***0.06***	***4.60***	***1.26***
Onsite	**2023 Winter**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.16	5.46	2.03	0.02	0.50	0.15
	Worker	1.46	0.78	9.63	0.04	4.11	1.11
	Total	**1.62**	**6.24**	**11.66**	**0.06**	**4.60**	**1.26**
TOTAL		***1.62***	***6.24***	***11.66***	***0.06***	***4.60***	***1.26***
Onsite	**2023**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.16	5.49	2.03	0.02	0.50	0.15
	Worker	1.46	0.78	10.47	0.04	4.11	1.11
	Total	**1.62**	**6.24**	**12.35**	**0.06**	**4.60**	**1.26**
TOTAL		***1.62***	***6.24***	***12.35***	***0.06***	***4.60***	***1.26***

Building Construction 2024

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024 Summer**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.15	5.42	1.84	0.02	0.50	0.15
	Worker	1.22	0.65	9.75	0.04	4.11	1.11
	Total	**1.37**	**6.07**	**11.59**	**0.06**	**4.60**	**1.26**
TOTAL		***1.37***	***6.07***	***11.59***	***0.06***	***4.60***	***1.26***
Onsite	**2024 Winter**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.16	5.39	1.98	0.02	0.50	0.15
	Worker	1.39	0.71	8.96	0.04	4.11	1.11
	Total	**1.55**	**6.11**	**10.94**	**0.05**	**4.60**	**1.26**
TOTAL		***1.55***	***6.11***	***10.94***	***0.05***	***4.60***	***1.26***
Onsite	**2024**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.16	5.42	1.98	0.02	0.50	0.15
	Worker	1.39	0.71	9.75	0.04	4.11	1.11
	Total	**1.55**	**6.11**	**11.59**	**0.06**	**4.60**	**1.26**
TOTAL		***1.55***	***6.11***	***11.59***	***0.06***	***4.60***	***1.26***

Finishing/Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024 Summer**						
	Off-Road	0.18	1.40	3.27	0.01	0.07	0.06
	Total	**0.18**	**1.40**	**3.27**	**0.01**	**0.07**	**0.06**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.00	0.07	0.00	0.03	0.01
	Total	**0.01**	**0.00**	**0.07**	**0.00**	**0.03**	**0.01**
TOTAL		***0.19***	***1.41***	***3.34***	***0.01***	***0.10***	***0.07***
Onsite	**2024 Winter**						
	Off-Road	0.18	1.40	3.27	0.01	0.07	0.06
	Total	**0.18**	**1.40**	**3.27**	**0.01**	**0.07**	**0.06**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.07	0.00	0.03	0.01
	Total	**0.01**	**0.01**	**0.07**	**0.00**	**0.03**	**0.01**
TOTAL		***0.19***	***1.41***	***3.33***	***0.01***	***0.10***	***0.07***
Onsite	**2024**						
	Off-Road	0.18	1.40	3.27	0.01	0.07	0.06
	Total	**0.18**	**1.40**	**3.27**	**0.01**	**0.07**	**0.06**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.07	0.00	0.03	0.01
	Total	**0.01**	**0.01**	**0.07**	**0.00**	**0.03**	**0.01**
TOTAL		***0.19***	***1.41***	***3.34***	***0.01***	***0.10***	***0.07***

Paving

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024** Summer						
	Off-Road		0.88	8.27	12.22	0.02	0.40	0.37
	Paving		0.03				0.00	0.00
	Total		**0.91**	**8.27**	**12.22**	**0.02**	**0.40**	**0.37**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.06	0.03	0.49	0.00	0.21	0.06
	Total		**0.06**	**0.03**	**0.49**	**0.00**	**0.21**	**0.06**
TOTAL			***0.98***	***8.31***	***12.71***	***0.02***	***0.61***	***0.42***
Onsite		**2024** Winter						
	Off-Road		0.88	8.27	12.22	0.02	0.40	0.37
	Paving		0.03				0.00	0.00
	Total		**0.91**	**8.27**	**12.22**	**0.02**	**0.40**	**0.37**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.07	0.04	0.45	0.00	0.21	0.06
	Total		**0.07**	**0.04**	**0.45**	**0.00**	**0.21**	**0.06**
TOTAL			***0.98***	***8.31***	***12.67***	***0.02***	***0.61***	***0.42***
Onsite		**2024**						
	Off-Road		0.88	8.27	12.22	0.02	0.40	0.37
	Paving		0.03	0.00	0.00	0.00	0.00	0.00
	Total		**0.91**	**8.27**	**12.22**	**0.02**	**0.40**	**0.37**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.07	0.04	0.49	0.00	0.21	0.06
	Total		**0.07**	**0.04**	**0.49**	**0.00**	**0.21**	**0.06**
TOTAL			***0.98***	***8.31***	***12.71***	***0.02***	***0.61***	***0.42***

Architectural Coating

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024** Summer						
	Archit. Coating		137.06				0.00	0.00
	Off-Road		0.18	1.22	1.81	0.00	0.06	0.06
	Total		**137.24**	**1.22**	**1.81**	**0.00**	**0.06**	**0.06**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.24	0.13	1.94	0.01	0.82	0.22
	Total		**0.24**	**0.13**	**1.94**	**0.01**	**0.82**	**0.22**
TOTAL			***137.48***	***1.35***	***3.75***	***0.01***	***0.88***	***0.28***
Onsite		**2024** Winter						
	Archit. Coating		137.06				0.00	0.00
	Off-Road		0.18	1.22	1.81	0.00	0.06	0.06
	Total		**137.24**	**1.22**	**1.81**	**0.00**	**0.06**	**0.06**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.28	0.14	1.79	0.01	0.82	0.22
	Total		**0.28**	**0.14**	**1.79**	**0.01**	**0.82**	**0.22**
TOTAL			***137.52***	***1.36***	***3.60***	***0.01***	***0.88***	***0.28***
Onsite		**2024**						
	Archit. Coating		137.06	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.18	1.22	1.81	0.00	0.06	0.06
	Total		**137.24**	**1.22**	**1.81**	**0.00**	**0.06**	**0.06**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.28	0.14	1.94	0.01	0.82	0.22
	Total		**0.28**	**0.14**	**1.94**	**0.01**	**0.82**	**0.22**
TOTAL			***137.52***	***1.36***	***3.75***	***0.01***	***0.88***	***0.28***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Building and Asphalt Demolition, Demolition Reprocessing, Building and Asphalt Debris Haul 2022	***1***	***11***	***9***	***0***	***2***	***1***
Site Preparation	***1***	***5***	***8***	***0***	***0***	***0***
Rough Grading and Soil Haul	***6***	***76***	***43***	***0***	***8***	***4***
Rough Grading and Soil Haul, Ground/Soil Improvement	***6***	***80***	***47***	***0***	***8***	***4***
Ground/Soil Improvement	***0***	***4***	***4***	***0***	***0***	***0***
Ground/Soil Improvement and Fine Grading and Soil Haul	***2***	***28***	***17***	***0***	***2***	***1***
Fine Grading and Soil Haul	***2***	***24***	***13***	***0***	***2***	***1***
Utility Trenching	***1***	***11***	***12***	***0***	***1***	***0***
Building Construction 2022	***2***	***8***	***13***	***0***	***5***	***1***
Building Construction 2023	***2***	***6***	***12***	***0***	***5***	***1***
Building Construction 2024	***2***	***6***	***12***	***0***	***5***	***1***
Building Construction 2024 and Finishing/Landscaping	***2***	***8***	***15***	***0***	***5***	***1***
Building Construction 2024, Finishing/Landscaping, Paving, and Architectural Coating	***140***	***17***	***31***	***0***	***6***	***2***
Finishing/Landscaping	***0***	***1***	***3***	***0***	***0***	***0***
MAX DAILY	**140**	**80**	**47**	**0**	**8**	**4**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	**Yes**	No	No	No	No	No

Regional Construction Emissions Worksheet:

Building and Asphalt Demolition and Demolition Reprocessing 2022		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	0.85	7.82	7.42	0.03	0.27	0.25
	Total	**0.85**	**7.82**	**7.42**	**0.03**	**0.27**	**0.25**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.03	0.02	0.28	0.00	0.10	0.03
	Total	**0.04**	**0.20**	**0.33**	**0.00**	**0.12**	**0.03**
TOTAL		***0.88***	***8.02***	***7.75***	***0.03***	***0.38***	***0.28***
Onsite	**2022 Winter**						
	Off-Road	0.85	7.82	7.42	0.03	0.27	0.25
	Total	**0.85**	**7.82**	**7.42**	**0.03**	**0.27**	**0.25**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.04	0.02	0.26	0.00	0.10	0.03
	Total	**0.04**	**0.20**	**0.32**	**0.00**	**0.12**	**0.03**
TOTAL		***0.89***	***8.02***	***7.73***	***0.03***	***0.38***	***0.28***
Onsite	**2022**						
	Off-Road	0.85	7.82	7.42	0.03	0.27	0.25
	Total	**0.85**	**7.82**	**7.42**	**0.03**	**0.27**	**0.25**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.04	0.02	0.28	0.00	0.10	0.03
	Total	**0.04**	**0.20**	**0.33**	**0.00**	**0.12**	**0.03**
TOTAL		***0.89***	***8.02***	***7.75***	***0.03***	***0.38***	***0.28***

Building Demolition Debris Haul 2022		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Summer						
	Fugitive Dust					0.60	0.09
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.60**	**0.09**
Offsite							
	Hauling	0.04	1.52	0.46	0.00	0.11	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**1.52**	**0.46**	**0.00**	**0.11**	**0.03**
TOTAL		***0.04***	***1.52***	***0.46***	***0.00***	***0.71***	***0.12***
Onsite	**2022** Winter						
	Fugitive Dust					0.57	0.09
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.57**	**0.09**
Offsite							
	Hauling	0.04	1.47	0.46	0.00	0.11	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**1.47**	**0.46**	**0.00**	**0.11**	**0.03**
TOTAL		***0.04***	***1.47***	***0.46***	***0.00***	***0.67***	***0.12***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.60	0.09
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.60**	**0.09**
Offsite							
	Hauling	0.04	1.52	0.46	0.00	0.11	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**1.52**	**0.46**	**0.00**	**0.11**	**0.03**
TOTAL		***0.04***	***1.52***	***0.46***	***0.00***	***0.71***	***0.12***

Asphalt Demolition Debris Haul 2022

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Summer						
	Fugitive Dust						0.70	0.11
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.70**	**0.11**
Offsite								
	Hauling		0.05	1.79	0.54	0.01	0.13	0.04
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.05**	**1.79**	**0.54**	**0.01**	**0.13**	**0.04**
TOTAL			***0.05***	***1.79***	***0.54***	***0.01***	***0.83***	***0.15***
Onsite		**2022** Winter						
	Fugitive Dust						0.67	0.10
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.67**	**0.10**
Offsite								
	Hauling		0.05	1.73	0.54	0.01	0.12	0.04
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.05**	**1.73**	**0.54**	**0.01**	**0.12**	**0.04**
TOTAL			***0.05***	***1.73***	***0.54***	***0.01***	***0.79***	***0.14***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.70	0.11
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.70**	**0.11**
Offsite								
	Hauling		0.05	1.79	0.54	0.01	0.13	0.04
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.05**	**1.79**	**0.54**	**0.01**	**0.13**	**0.04**
TOTAL			***0.05***	***1.79***	***0.54***	***0.01***	***0.83***	***0.15***

Site Preparation

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Summer						
	Fugitive Dust						0.00	0.00
	Off-Road		0.48	4.61	8.08	0.01	0.21	0.19
	Total		**0.48**	**4.61**	**8.08**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.03	0.02	0.23	0.00	0.08	0.02
	Total		**0.03**	**0.19**	**0.28**	**0.00**	**0.10**	**0.03**
TOTAL			***0.52***	***4.80***	***8.36***	***0.01***	***0.31***	***0.22***
Onsite		**2022** Winter						
	Fugitive Dust						0.00	0.00
	Off-Road		0.48	4.61	8.08	0.01	0.21	0.19
	Total		**0.48**	**4.61**	**8.08**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.03	0.02	0.21	0.00	0.08	0.02
	Total		**0.04**	**0.19**	**0.26**	**0.00**	**0.10**	**0.03**
TOTAL			***0.52***	***4.80***	***8.35***	***0.01***	***0.31***	***0.22***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.48	4.61	8.08	0.01	0.21	0.19
	Total		**0.48**	**4.61**	**8.08**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.03	0.02	0.23	0.00	0.08	0.02
	Total		**0.04**	**0.19**	**0.28**	**0.00**	**0.10**	**0.03**
TOTAL			***0.52***	***4.80***	***8.36***	***0.01***	***0.31***	***0.22***

Rough Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Summer						
	Fugitive Dust					3.71	1.54
	Off-Road	4.30	46.26	30.04	0.06	1.93	1.77
	Total	**4.30**	**46.26**	**30.04**	**0.06**	**5.63**	**3.31**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.05	0.03	0.43	0.00	0.16	0.04
	Total	**0.06**	**0.21**	**0.47**	**0.00**	**0.17**	**0.05**
TOTAL		***4.36***	***46.47***	***30.51***	***0.06***	***5.80***	***3.36***
Onsite	**2022** Winter						
	Fugitive Dust					3.71	1.54
	Off-Road	4.30	46.26	30.04	0.06	1.93	1.77
	Total	**4.30**	**46.26**	**30.04**	**0.06**	**5.63**	**3.31**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.06	0.03	0.39	0.00	0.16	0.04
	Total	**0.06**	**0.21**	**0.45**	**0.00**	**0.17**	**0.05**
TOTAL		***4.36***	***46.47***	***30.48***	***0.06***	***5.80***	***3.36***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.71	1.54
	Off-Road	4.30	46.26	30.04	0.06	1.93	1.77
	Total	**4.30**	**46.26**	**30.04**	**0.06**	**5.63**	**3.31**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.05	0.00	0.01	0.00
	Worker	0.06	0.03	0.43	0.00	0.16	0.04
	Total	**0.06**	**0.21**	**0.47**	**0.00**	**0.17**	**0.05**
TOTAL		***4.36***	***46.47***	***30.51***	***0.06***	***5.80***	***3.36***

Rough Grading Soil Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Summer						
	Fugitive Dust					0.04	0.01
	Off-Road	0.67	6.12	4.91	0.02	0.21	0.19
	Total	**0.67**	**6.12**	**4.91**	**0.02**	**0.25**	**0.20**
Offsite							
	Hauling	0.68	23.36	7.02	0.07	1.69	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.14	0.00	0.05	0.01
	Total	**0.70**	**23.37**	**7.16**	**0.07**	**1.74**	**0.53**
TOTAL		***1.37***	***29.49***	***12.07***	***0.10***	***1.99***	***0.73***
Onsite	**2022** Winter						
	Fugitive Dust					0.04	0.01
	Off-Road	0.67	6.12	4.91	0.02	0.21	0.19
	Total	**0.67**	**6.12**	**4.91**	**0.02**	**0.25**	**0.20**
Offsite							
	Hauling	0.70	23.61	7.35	0.07	1.69	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.05	0.01
	Total	**0.72**	**23.62**	**7.48**	**0.07**	**1.74**	**0.53**
TOTAL		***1.39***	***29.75***	***12.39***	***0.10***	***1.99***	***0.73***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.04	0.01
	Off-Road	0.67	6.12	4.91	0.02	0.21	0.19
	Total	**0.67**	**6.12**	**4.91**	**0.02**	**0.25**	**0.20**
Offsite							
	Hauling	0.70	23.61	7.35	0.07	1.69	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.14	0.00	0.05	0.01
	Total	**0.72**	**23.62**	**7.48**	**0.07**	**1.74**	**0.53**
TOTAL		***1.39***	***29.75***	***12.39***	***0.10***	***1.99***	***0.73***

Ground/Soil Improvements

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Summer						
	Fugitive Dust						0.00	0.00
	Off-Road		0.39	3.94	4.28	0.01	0.16	0.15
	Total		**0.39**	**3.94**	**4.28**	**0.01**	**0.16**	**0.15**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.14	0.00	0.05	0.01
	Total		**0.02**	**0.01**	**0.14**	**0.00**	**0.05**	**0.01**
TOTAL			***0.41***	***3.95***	***4.42***	***0.01***	***0.21***	***0.16***
Onsite		**2022** Winter						
	Fugitive Dust						0.00	0.00
	Off-Road		0.39	3.94	4.28	0.01	0.16	0.15
	Total		**0.39**	**3.94**	**4.28**	**0.01**	**0.16**	**0.15**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.13	0.00	0.05	0.01
	Total		**0.02**	**0.01**	**0.13**	**0.00**	**0.05**	**0.01**
TOTAL			***0.41***	***3.95***	***4.41***	***0.01***	***0.21***	***0.16***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.39	3.94	4.28	0.01	0.16	0.15
	Total		**0.39**	**3.94**	**4.28**	**0.01**	**0.16**	**0.15**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.14	0.00	0.05	0.01
	Total		**0.02**	**0.01**	**0.14**	**0.00**	**0.05**	**0.01**
TOTAL			***0.41***	***3.95***	***4.42***	***0.01***	***0.21***	***0.16***

Fine Grading

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Summer						
	Fugitive Dust						0.68	0.07
	Off-Road		1.31	14.95	8.72	0.02	0.55	0.50
	Total		**1.31**	**14.95**	**8.72**	**0.02**	**1.23**	**0.58**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.03	0.02	0.23	0.00	0.08	0.02
	Total		**0.03**	**0.19**	**0.28**	**0.00**	**0.10**	**0.03**
TOTAL			***1.34***	***15.14***	***8.99***	***0.02***	***1.32***	***0.60***
Onsite		**2022** Winter						
	Fugitive Dust						0.68	0.07
	Off-Road		1.31	14.95	8.72	0.02	0.55	0.50
	Total		**1.31**	**14.95**	**8.72**	**0.02**	**1.23**	**0.58**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.03	0.02	0.21	0.00	0.08	0.02
	Total		**0.04**	**0.19**	**0.26**	**0.00**	**0.10**	**0.03**
TOTAL			***1.34***	***15.15***	***8.98***	***0.02***	***1.32***	***0.60***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.68	0.07
	Off-Road		1.31	14.95	8.72	0.02	0.55	0.50
	Total		**1.31**	**14.95**	**8.72**	**0.02**	**1.23**	**0.58**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.18	0.05	0.00	0.01	0.00
	Worker		0.03	0.02	0.23	0.00	0.08	0.02
	Total		**0.04**	**0.19**	**0.28**	**0.00**	**0.10**	**0.03**
TOTAL			***1.34***	***15.15***	***8.99***	***0.02***	***1.32***	***0.60***

Fine Grading Soil Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Summer						
Fugitive Dust						0.01	0.00
Off-Road		0.31	3.17	1.90	0.01	0.11	0.10
Total		**0.31**	**3.17**	**1.90**	**0.01**	**0.12**	**0.10**
Offsite							
Hauling		0.17	5.84	1.76	0.02	0.42	0.13
Vendor		0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.01	0.01	0.09	0.00	0.03	0.01
Total		**0.18**	**5.85**	**1.84**	**0.02**	**0.45**	**0.14**
TOTAL		***0.49***	***9.01***	***3.74***	***0.03***	***0.57***	***0.24***
Onsite	**2022** Winter						
Fugitive Dust						0.01	0.00
Off-Road		0.31	3.17	1.90	0.01	0.11	0.10
Total		**0.31**	**3.17**	**1.90**	**0.01**	**0.12**	**0.10**
Offsite							
Hauling		0.18	5.90	1.84	0.02	0.42	0.13
Vendor		0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.01	0.01	0.08	0.00	0.03	0.01
Total		**0.19**	**5.91**	**1.92**	**0.02**	**0.45**	**0.14**
TOTAL		***0.49***	***9.08***	***3.81***	***0.03***	***0.57***	***0.24***
Onsite	**2022**						
Fugitive Dust		0.00	0.00	0.00	0.00	0.01	0.00
Off-Road		0.31	3.17	1.90	0.01	0.11	0.10
Total		**0.31**	**3.17**	**1.90**	**0.01**	**0.12**	**0.10**
Offsite							
Hauling		0.18	5.90	1.84	0.02	0.42	0.13
Vendor		0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.01	0.01	0.09	0.00	0.03	0.01
Total		**0.19**	**5.91**	**1.92**	**0.02**	**0.45**	**0.14**
TOTAL		***0.49***	***9.08***	***3.81***	***0.03***	***0.57***	***0.24***

Utilities Trenching

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
Off-Road		1.09	10.69	11.47	0.03	0.45	0.41
Total		**1.09**	**10.69**	**11.47**	**0.03**	**0.45**	**0.41**
Offsite							
Hauling		0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.05	0.03	0.43	0.00	0.16	0.04
Total		**0.05**	**0.03**	**0.43**	**0.00**	**0.16**	**0.04**
TOTAL		***1.14***	***10.72***	***11.89***	***0.03***	***0.60***	***0.45***
Onsite	**2022 Winter**						
Off-Road		1.09	10.69	11.47	0.03	0.45	0.41
Total		**1.09**	**10.69**	**11.47**	**0.03**	**0.45**	**0.41**
Offsite							
Hauling		0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.06	0.03	0.39	0.00	0.16	0.04
Total		**0.06**	**0.03**	**0.39**	**0.00**	**0.16**	**0.04**
TOTAL		***1.15***	***10.73***	***11.86***	***0.03***	***0.60***	***0.45***
Onsite	**2022**						
Off-Road		1.09	10.69	11.47	0.03	0.45	0.41
Total		**1.09**	**10.69**	**11.47**	**0.03**	**0.45**	**0.41**
Offsite							
Hauling		0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.06	0.03	0.43	0.00	0.16	0.04
Total		**0.06**	**0.03**	**0.43**	**0.00**	**0.16**	**0.04**
TOTAL		***1.15***	***10.73***	***11.89***	***0.03***	***0.60***	***0.45***

Building Construction 2022

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**						
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.21	7.28	2.01	0.02	0.50	0.16
	Worker		1.35	0.78	11.23	0.04	4.11	1.11
	Total		**1.56**	**8.06**	**13.24**	**0.06**	**4.61**	**1.27**
TOTAL			***1.56***	***8.06***	***13.24***	***0.06***	***4.61***	***1.27***
Onsite		**2022 Winter**						
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.22	7.26	2.21	0.02	0.50	0.16
	Worker		1.53	0.86	10.34	0.04	4.11	1.11
	Total		**1.75**	**8.12**	**12.55**	**0.06**	**4.61**	**1.27**
TOTAL			***1.75***	***8.12***	***12.55***	***0.06***	***4.61***	***1.27***
Onsite		**2022**						
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.22	7.28	2.21	0.02	0.50	0.16
	Worker		1.53	0.86	11.23	0.04	4.11	1.11
	Total		**1.75**	**8.12**	**13.24**	**0.06**	**4.61**	**1.27**
TOTAL			***1.75***	***8.12***	***13.24***	***0.06***	***4.61***	***1.27***

Building Construction 2023

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2023 Summer**						
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.16	5.49	1.88	0.02	0.50	0.15
	Worker		1.28	0.71	10.47	0.04	4.11	1.11
	Total		**1.44**	**6.20**	**12.35**	**0.06**	**4.60**	**1.26**
TOTAL			***1.44***	***6.20***	***12.35***	***0.06***	***4.60***	***1.26***
Onsite		**2023 Winter**						
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.16	5.46	2.03	0.02	0.50	0.15
	Worker		1.46	0.78	9.63	0.04	4.11	1.11
	Total		**1.62**	**6.24**	**11.66**	**0.06**	**4.60**	**1.26**
TOTAL			***1.62***	***6.24***	***11.66***	***0.06***	***4.60***	***1.26***
Onsite		**2023**						
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.16	5.49	2.03	0.02	0.50	0.15
	Worker		1.46	0.78	10.47	0.04	4.11	1.11
	Total		**1.62**	**6.24**	**12.35**	**0.06**	**4.60**	**1.26**
TOTAL			***1.62***	***6.24***	***12.35***	***0.06***	***4.60***	***1.26***

Building Construction 2024

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024 Summer**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.15	5.42	1.84	0.02	0.50	0.15
	Worker	1.22	0.65	9.75	0.04	4.11	1.11
	Total	**1.37**	**6.07**	**11.59**	**0.06**	**4.60**	**1.26**
TOTAL		***1.37***	***6.07***	***11.59***	***0.06***	***4.60***	***1.26***
Onsite	**2024 Winter**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.16	5.39	1.98	0.02	0.50	0.15
	Worker	1.39	0.71	8.96	0.04	4.11	1.11
	Total	**1.55**	**6.11**	**10.94**	**0.05**	**4.60**	**1.26**
TOTAL		***1.55***	***6.11***	***10.94***	***0.05***	***4.60***	***1.26***
Onsite	**2024**						
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.16	5.42	1.98	0.02	0.50	0.15
	Worker	1.39	0.71	9.75	0.04	4.11	1.11
	Total	**1.55**	**6.11**	**11.59**	**0.06**	**4.60**	**1.26**
TOTAL		***1.55***	***6.11***	***11.59***	***0.06***	***4.60***	***1.26***

Finishing/Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024 Summer**						
	Off-Road	0.18	1.40	3.27	0.01	0.07	0.06
	Total	**0.18**	**1.40**	**3.27**	**0.01**	**0.07**	**0.06**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.00	0.07	0.00	0.03	0.01
	Total	**0.01**	**0.00**	**0.07**	**0.00**	**0.03**	**0.01**
TOTAL		***0.19***	***1.41***	***3.34***	***0.01***	***0.10***	***0.07***
Onsite	**2024 Winter**						
	Off-Road	0.18	1.40	3.27	0.01	0.07	0.06
	Total	**0.18**	**1.40**	**3.27**	**0.01**	**0.07**	**0.06**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.07	0.00	0.03	0.01
	Total	**0.01**	**0.01**	**0.07**	**0.00**	**0.03**	**0.01**
TOTAL		***0.19***	***1.41***	***3.33***	***0.01***	***0.10***	***0.07***
Onsite	**2024**						
	Off-Road	0.18	1.40	3.27	0.01	0.07	0.06
	Total	**0.18**	**1.40**	**3.27**	**0.01**	**0.07**	**0.06**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.07	0.00	0.03	0.01
	Total	**0.01**	**0.01**	**0.07**	**0.00**	**0.03**	**0.01**
TOTAL		***0.19***	***1.41***	***3.34***	***0.01***	***0.10***	***0.07***

Paving

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024** Summer						
	Off-Road		0.88	8.27	12.22	0.02	0.40	0.37
	Paving		0.03				0.00	0.00
	Total		**0.91**	**8.27**	**12.22**	**0.02**	**0.40**	**0.37**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.06	0.03	0.49	0.00	0.21	0.06
	Total		**0.06**	**0.03**	**0.49**	**0.00**	**0.21**	**0.06**
TOTAL			***0.98***	***8.31***	***12.71***	***0.02***	***0.61***	***0.42***
Onsite		**2024** Winter						
	Off-Road		0.88	8.27	12.22	0.02	0.40	0.37
	Paving		0.03				0.00	0.00
	Total		**0.91**	**8.27**	**12.22**	**0.02**	**0.40**	**0.37**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.07	0.04	0.45	0.00	0.21	0.06
	Total		**0.07**	**0.04**	**0.45**	**0.00**	**0.21**	**0.06**
TOTAL			***0.98***	***8.31***	***12.67***	***0.02***	***0.61***	***0.42***
Onsite		**2024**						
	Off-Road		0.88	8.27	12.22	0.02	0.40	0.37
	Paving		0.03	0.00	0.00	0.00	0.00	0.00
	Total		**0.91**	**8.27**	**12.22**	**0.02**	**0.40**	**0.37**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.07	0.04	0.49	0.00	0.21	0.06
	Total		**0.07**	**0.04**	**0.49**	**0.00**	**0.21**	**0.06**
TOTAL			***0.98***	***8.31***	***12.71***	***0.02***	***0.61***	***0.42***

Architectural Coating with 50 g/L paints

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024** Summer						
	Archit. Coating		69.11				0.00	0.00
	Off-Road		0.05	1.06	1.83	0.00	0.00	0.00
	Total		**72.65**	**1.06**	**1.83**	**0.00**	**0.00**	**0.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.24	0.13	1.94	0.01	0.82	0.22
	Total		**0.24**	**0.13**	**1.94**	**0.01**	**0.82**	**0.22**
TOTAL			***72.90***	***1.19***	***3.78***	***0.01***	***0.82***	***0.23***
Onsite		**2024** Winter						
	Archit. Coating		69.11				0.00	0.00
	Off-Road		0.05	1.06	1.83	0.00	0.00	0.00
	Total		**69.16**	**1.06**	**1.83**	**0.00**	**0.00**	**0.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.28	0.14	1.79	0.01	0.82	0.22
	Total		**0.28**	**0.14**	**1.79**	**0.01**	**0.82**	**0.22**
TOTAL			***69.44***	***1.20***	***3.62***	***0.01***	***0.82***	***0.23***
Onsite		**2024**						
	Archit. Coating		69.11	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.05	1.06	1.83	0.00	0.00	0.00
	Total		**69.16**	**1.06**	**1.83**	**0.00**	**0.00**	**0.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.28	0.14	1.94	0.01	0.82	0.22
	Total		**0.28**	**0.14**	**1.94**	**0.01**	**0.82**	**0.22**
TOTAL			***69.44***	***1.20***	***3.78***	***0.01***	***0.82***	***0.23***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Building and Asphalt Demolition, Demolition Reprocessing, Building and Asphalt Debris Haul 2022	*1*	*11*	*9*	*0*	*2*	*1*
Site Preparation	*1*	*5*	*8*	*0*	*0*	*0*
Rough Grading and Soil Haul	*6*	*76*	*43*	*0*	*8*	*4*
Rough Grading and Soil Haul, Ground/Soil Improvement	*6*	*80*	*47*	*0*	*8*	*4*
Ground/Soil Improvement	*0*	*4*	*4*	*0*	*0*	*0*
Ground/Soil Improvement and Fine Grading and Soil Haul	*2*	*28*	*17*	*0*	*2*	*1*
Fine Grading and Soil Haul	*2*	*24*	*13*	*0*	*2*	*1*
Utility Trenching	*1*	*11*	*12*	*0*	*1*	*0*
Building Construction 2022	*2*	*8*	*13*	*0*	*5*	*1*
Building Construction 2023	*2*	*66*	*12*	*0*	*5*	*1*
Building Construction 2024	*2*	*6*	*12*	*0*	*5*	*1*
Building Construction 2024 and Finishing/Landscaping	*2*	*8*	*15*	*0*	*5*	*1*
Building Construction 2024, Finishing/Landscaping, Paving, and Architectural Coating	*72*	*17*	*31*	*0*	*6*	*2*
Finishing/Landscaping	*0*	*1*	*3*	*0*	*0*	*0*
MAX DAILY	**73**	**80**	**47**	**0**	**8**	**4**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	**No**	No	No	No	No	No

Construction LST Worksheet:

Building and Asphalt Demolition and Demolition Reprocessing 2022						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Off-Road		7.82	7.42	0.27	0.25
	Total		**7.82**	**7.42**	**0.27**	**0.25**
TOTAL			***7.82***	***7.42***	***0.27***	***0.25***
Onsite		**2022**				
	Off-Road		7.82	7.42	0.27	0.25
	Total		**7.82**	**7.42**	**0.27**	**0.25**
TOTAL			***7.82***	***7.42***	***0.27***	***0.25***
Onsite		**2022**				
	Off-Road		7.82	7.42	0.27	0.25
	Total		**7.82**	**7.42**	**0.27**	**0.25**
TOTAL			***7.82***	***7.42***	***0.27***	***0.25***

Building Demolition Debris Haul 2022						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Fugitive Dust				0.60	0.09
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.60**	**0.09**
TOTAL			***0.00***	***0.00***	***0.60***	***0.09***
Onsite		**2022**				
	Fugitive Dust				0.57	0.09
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.57**	**0.09**
TOTAL			***0.00***	***0.00***	***0.57***	***0.09***
Onsite		**2022**				
	Fugitive Dust		0.00	0.00	0.60	0.09
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.60**	**0.09**
TOTAL			***0.00***	***0.00***	***0.60***	***0.09***

Asphalt Demolition Debris Haul 2022						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Fugitive Dust				0.70	0.11
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.70**	**0.11**
TOTAL			***0.00***	***0.00***	***0.70***	***0.11***
Onsite		**2022**				
	Fugitive Dust				0.67	0.10
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.67**	**0.10**
TOTAL			***0.00***	***0.00***	***0.67***	***0.10***
Onsite		**2022**				
	Fugitive Dust		0.00	0.00	0.70	0.11
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.70**	**0.11**
TOTAL			***0.00***	***0.00***	***0.70***	***0.11***

Site Preparation						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Fugitive Dust				0.00	0.00
	Off-Road		4.61	8.08	0.21	0.19
	Total		**4.61**	**8.08**	**0.21**	**0.19**
TOTAL			***4.61***	***8.08***	***0.21***	***0.19***
Onsite		**2022**				
	Fugitive Dust				0.00	0.00
	Off-Road		4.61	8.08	0.21	0.19
	Total		**4.61**	**8.08**	**0.21**	**0.19**
TOTAL			***4.61***	***8.08***	***0.21***	***0.19***
Onsite		**2022**				
	Fugitive Dust		0.00	0.00	0.00	0.00
	Off-Road		4.61	8.08	0.21	0.19
	Total		**4.61**	**8.08**	**0.21**	**0.19**
TOTAL			***4.61***	***8.08***	***0.21***	***0.19***

Rough Grading						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Fugitive Dust				3.71	1.54
	Off-Road		46.26	30.04	1.93	1.77
	Total		**46.26**	**30.04**	**5.63**	**3.31**
TOTAL			***46.26***	***30.04***	***5.63***	***3.31***
Onsite		**2022**				
	Fugitive Dust				3.71	1.54
	Off-Road		46.26	30.04	1.93	1.77
	Total		**46.26**	**30.04**	**5.63**	**3.31**
TOTAL			***46.26***	***30.04***	***5.63***	***3.31***
Onsite		**2022**				
	Fugitive Dust		0.00	0.00	3.71	1.54
	Off-Road		46.26	30.04	1.93	1.77
	Total		**46.26**	**30.04**	**5.63**	**3.31**
TOTAL			***46.26***	***30.04***	***5.63***	***3.31***

Rough Grading Soil Haul						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Fugitive Dust				0.04	0.01
	Off-Road		6.12	4.91	0.21	0.19
	Total		**6.12**	**4.91**	**0.25**	**0.20**
TOTAL			***6.12***	***4.91***	***0.25***	***0.20***
Onsite		**2022**				
	Fugitive Dust				0.04	0.01
	Off-Road		6.12	4.91	0.21	0.19
	Total		**6.12**	**4.91**	**0.25**	**0.20**
TOTAL			***6.12***	***4.91***	***0.25***	***0.20***
Onsite		**2022**				
	Fugitive Dust		0.00	0.00	0.04	0.01
	Off-Road		6.12	4.91	0.21	0.19
	Total		**6.12**	**4.91**	**0.25**	**0.20**
TOTAL			***6.12***	***4.91***	***0.25***	***0.20***

Ground/Soil Improvements					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
	Fugitive Dust			0.00	0.00
	Off-Road	3.94	4.28	0.16	0.15
	Total	**3.94**	**4.28**	**0.16**	**0.15**
TOTAL		***3.94***	***4.28***	***0.16***	***0.15***
Onsite	**2022**				
	Fugitive Dust			0.00	0.00
	Off-Road	3.94	4.28	0.16	0.15
	Total	**3.94**	**4.28**	**0.16**	**0.15**
TOTAL		***3.94***	***4.28***	***0.16***	***0.15***
Onsite	**2022**				
	Fugitive Dust	0.00	0.00	0.00	0.00
	Off-Road	3.94	4.28	0.16	0.15
	Total	**3.94**	**4.28**	**0.16**	**0.15**
TOTAL		***3.94***	***4.28***	***0.16***	***0.15***

Fine Grading					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
	Fugitive Dust			0.68	0.07
	Off-Road	14.95	8.72	0.55	0.50
	Total	**14.95**	**8.72**	**1.23**	**0.58**
TOTAL		***14.95***	***8.72***	***1.23***	***0.58***
Onsite	**2022**				
	Fugitive Dust			0.68	0.07
	Off-Road	14.95	8.72	0.55	0.50
	Total	**14.95**	**8.72**	**1.23**	**0.58**
TOTAL		***14.95***	***8.72***	***1.23***	***0.58***
Onsite	**2022**				
	Fugitive Dust	0.00	0.00	0.68	0.07
	Off-Road	14.95	8.72	0.55	0.50
	Total	**14.95**	**8.72**	**1.23**	**0.58**
TOTAL		***14.95***	***8.72***	***1.23***	***0.58***

Fine Grading Soil Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
	Fugitive Dust			0.01	0.00
	Off-Road	3.17	1.90	0.11	0.10
	Total	**3.17**	**1.90**	**0.12**	**0.10**
TOTAL		***3.17***	***1.90***	***0.12***	***0.10***
Onsite	**2022**				
	Fugitive Dust			0.01	0.00
	Off-Road	3.17	1.90	0.11	0.10
	Total	**3.17**	**1.90**	**0.12**	**0.10**
TOTAL		***3.17***	***1.90***	***0.12***	***0.10***
Onsite	**2022**				
	Fugitive Dust	0.00	0.00	0.01	0.00
	Off-Road	3.17	1.90	0.11	0.10
	Total	**3.17**	**1.90**	**0.12**	**0.10**
TOTAL		***3.17***	***1.90***	***0.12***	***0.10***

Utilities Trenching

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Off-Road		10.69	11.47	0.45	0.41
	Total		**10.69**	**11.47**	**0.45**	**0.41**
TOTAL			***10.69***	***11.47***	***0.45***	***0.41***
Onsite		**2022**				
	Off-Road		10.69	11.47	0.45	0.41
	Total		**10.69**	**11.47**	**0.45**	**0.41**
TOTAL			***10.69***	***11.47***	***0.45***	***0.41***
Onsite		**2022**				
	Off-Road		10.69	11.47	0.45	0.41
	Total		**10.69**	**11.47**	**0.45**	**0.41**
TOTAL			***10.69***	***11.47***	***0.45***	***0.41***

Building Construction 2022

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***
Onsite		**2022**				
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***
Onsite		**2022**				
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***

Building Construction 2023

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2023**				
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***
Onsite		**2023**				
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***
Onsite		**2023**				
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***

Building Construction 2024

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2024**				
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***
Onsite		**2024**				
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***
Onsite		**2024**				
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***

Finishing/Landscaping

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2024**				
	Off-Road		1.40	3.27	0.07	0.06
	Total		**1.40**	**3.27**	**0.07**	**0.06**
TOTAL			***1.40***	***3.27***	***0.07***	***0.06***
Onsite		**2024**				
	Off-Road		1.40	3.27	0.07	0.06
	Total		**1.40**	**3.27**	**0.07**	**0.06**
TOTAL			***1.40***	***3.27***	***0.07***	***0.06***
Onsite		**2024**				
	Off-Road		1.40	3.27	0.07	0.06
	Total		**1.40**	**3.27**	**0.07**	**0.06**
TOTAL			***1.40***	***3.27***	***0.07***	***0.06***

Paving

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2024**				
	Off-Road		8.27	12.22	0.40	0.37
	Paving				0.00	0.00
	Total		**8.27**	**12.22**	**0.40**	**0.37**
TOTAL			***8.27***	***12.22***	***0.40***	***0.37***
Onsite		**2024**				
	Off-Road		8.27	12.22	0.40	0.37
	Paving				0.00	0.00
	Total		**8.27**	**12.22**	**0.40**	**0.37**
TOTAL			***8.27***	***12.22***	***0.40***	***0.37***
Onsite		**2024**				
	Off-Road		8.27	12.22	0.40	0.37
	Paving		0.00	0.00	0.00	0.00
	Total		**8.27**	**12.22**	**0.40**	**0.37**
TOTAL			***8.27***	***12.22***	***0.40***	***0.37***

Architectural Coating					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2024**				
Archit. Coating				0.00	0.00
Off-Road		1.22	1.81	0.06	0.06
Total		**1.22**	**1.81**	**0.06**	**0.06**
TOTAL		***1.22***	***1.81***	***0.06***	***0.06***
Onsite	**2024**				
Archit. Coating				0.00	0.00
Off-Road		1.22	1.81	0.06	0.06
Total		**1.22**	**1.81**	**0.06**	**0.06**
TOTAL		***1.22***	***1.81***	***0.06***	***0.06***
Onsite	**2024**				
Archit. Coating		0.00	0.00	0.00	0.00
Off-Road		1.22	1.81	0.06	0.06
Total		**1.22**	**1.81**	**0.06**	**0.06**
TOTAL		***1.22***	***1.81***	***0.06***	***0.06***

	NOx	**CO**	**PM10 Total**	**PM2.5 Total**
Building and Asphalt Demolition, Demolition Reprocessing, Building and Asphalt Debris Haul 2022	***8***	***7***	***1.56***	***0.44***
≤1.00 Acre LST	***103***	***522***	***4.00***	***3.00***
Exceeds LST?	***no***	***no***	***no***	***no***
Site Preparation	***5***	***8***	***0.21***	***0.19***
≤1.00 Acre LST	***103***	***522***	***4.00***	***3.00***
Exceeds LST?	***no***	***no***	***no***	***no***
Rough Grading and Soil Haul	***52***	***35***	***5.88***	***3.51***
3.55 Acre LST	***185***	***1,046***	***8.58***	***5.03***
Exceeds LST?	***no***	***no***	***no***	***no***
Rough Grading and Soil Haul, Ground/Soil Improvement	***56***	***39***	***6.04***	***3.66***
3.55 Acre LST	***185***	***1,046***	***8.58***	***5.03***
Exceeds LST?	***no***	***no***	***no***	***no***
Ground/Soil Improvement	***4***	***4***	***0.16***	***0.15***
≤1.00 Acre LST	***103***	***522***	***4.00***	***3.00***
Exceeds LST?	***no***	***no***	***no***	***no***
Ground/Soil Improvement and Fine Grading and Soil Haul	***22***	***15***	***1.51***	***0.83***
2.50 Acre LST	***159***	***853***	***6.83***	***4.33***
Exceeds LST?	***no***	***no***	***no***	***no***
Fine Grading and Soil Haul	***18***	***11***	***1.35***	***0.68***
2.00 Acre LST	***147***	***762***	***6.00***	***4.00***
Exceeds LST?	***no***	***no***	***no***	***no***
Utility Trenching	***11***	***11***	***0.45***	***0.41***
2.00 Acre LST	***147***	***762***	***6.00***	***4.00***
Exceeds LST?	***no***	***no***	***no***	***no***

Building Construction 2022		*0*	*0*	*0.00*	*0.00*
	≤1.00 Acre LST	*103*	*522*	*4.00*	*3.00*
	Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction 2023		*0*	*0*	*0.00*	*0.00*
	≤1.00 Acre LST	*103*	*522*	*4.00*	*3.00*
	Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction 2024		*0*	*0*	*0.00*	*0.00*
	≤1.00 Acre LST	*103*	*522*	*4.00*	*3.00*
	Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction 2024 and Finishing/Landscaping		*1*	*3*	*0.07*	*0.06*
	≤1.00 Acre LST	*103*	*522*	*4.00*	*3.00*
	Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction 2024, Finishing/Landscaping, Paving, and Architectural Coating		*11*	*17*	*0.53*	*0.49*
	≤1.00 Acre LST	*103*	*522*	*4.00*	*3.00*
	Exceeds LST?	*no*	*no*	*no*	*no*
Finishing/Landscaping		*1*	*3*	*0.07*	*0.06*
	≤1.00 Acre LST	*103*	*522*	*4.00*	*3.00*
	Exceeds LST?	*no*	*no*	*no*	*no*

Regional Operation Emissions Worksheet[1]

[1] CalEEMod, Version 2016.3.2.25

Existing Conditions (2024)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.29	0.00	0.02	0.00	0.00	0.00
Energy	0.02	0.16	0.14	0.00	0.01	0.01
Mobile	0.60	1.24	7.63	0.03	2.75	0.74
Total	**1.91**	**1.40**	**7.78**	**0.03**	**2.76**	**0.76**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.29	0.00	0.02	0.00	0.00	0.00
Energy	0.02	0.16	0.14	0.00	0.01	0.01
Mobile	0.59	1.30	7.34	0.03	2.75	0.74
Total	**1.90**	**1.46**	**7.49**	**0.03**	**2.76**	**0.76**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.29	0.00	0.02	0.00	0.00	0.00
Energy	0.02	0.16	0.14	0.00	0.01	0.01
Mobile	0.60	1.30	7.63	0.03	2.75	0.74
Total	**1.91**	**1.46**	**7.78**	**0.03**	**2.76**	**0.76**

Proposed Project

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	12.03	0.50	34.70	0.00	0.20	0.20
Energy	0.14	1.19	0.51	0.01	0.10	0.10
Mobile	2.44	2.38	25.58	0.07	8.19	2.21
Total	**14.61**	**4.06**	**60.79**	**0.08**	**8.49**	**2.50**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	12.03	0.50	34.70	0.00	0.20	0.20
Energy	0.14	1.19	0.51	0.01	0.10	0.10
Mobile	2.40	2.55	25.25	0.07	8.19	2.21
Total	**14.56**	**4.23**	**60.46**	**0.08**	**8.49**	**2.50**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	12	0	35	0	0	0
Energy	0	1	1	0	0	0
Mobile	2	3	26	0	8	2
Total	**15**	**4**	**61**	**0**	**8**	**3**

Proposed Net Operations

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	10.74	0.50	34.68	0.00	0.20	0.20
Energy	0.12	1.03	0.37	0.01	0.08	0.08
Mobile	1.84	1.14	17.95	0.04	5.45	1.46
Total	**12.70**	**2.66**	**53.00**	**0.05**	**5.73**	**1.75**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	10.74	0.50	34.68	0.00	0.20	0.20
Energy	0.12	1.03	0.37	0.01	0.08	0.08
Mobile	1.81	1.25	17.92	0.04	5.45	1.46
Total	**12.67**	**2.77**	**52.97**	**0.05**	**5.73**	**1.75**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	11	0	35	0	0	0
Energy	0	1	0	0	0	0
Mobile	2	1	18	0	5	1
Total	**13**	**3**	**53**	**0**	**6**	**2**
Regional Thresholds (lb/day)	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

GHG Emissions Inventory

Proposed Project Buildout

Construction*

	$MTCO_2e$
2022	574
2023**	766
2024	194
Total Construction	**1,534**
30-Year Amortization[1]	**51**

*CalEEMod, Version 2016.3.2.25

** includes 81.38 MTCO2e from electric equipment use

Operation*	**$MTCO_2e$/Year**		**$MTCO_2e$/Year**		**$MTCO_2e$/Year**
	Existing Conditions (2020)	**%**	**Proposed Project (2024)**	**%**	**Net**
Area	0	0%	9	0%	9
Energy	279	40%	882	40%	603
Mobile	356	52%	1,053	48%	697
Solid Waste	26	4%	104	5%	78
Water	28	4%	115	5%	86
Amortized Construction Emissions***		0%	51	2%	51
	689	100%	**2,213**	100%	**1,524**
			South Coast AQMD Bright-Line Screening Threshold		3,000
			Exceed Threshold?		**No**

*CalEEMod, Version 2016.3.2.25

** $MTCO_2e$=metric tons of carbon dioxide equivalent.

*** Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2.

Assumptions Worksheet

CalEEMod Inputs - Hub Fullerton Project, Construction

Name:	The Hub Fullerton
Project Number:	FUL-07
Project Location:	Northeast corner of East Chapman Avenue and Commonwealth Avenue
County/Air Basin:	Orange County
Climate Zone:	8
Land Use Setting:	Urban
Operational Year:	2024
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	16- North Orange County

Proiect Site Acreage	3.55
Disturbed Site Acreage	3.55

Project Components	SQFT	Tons		
Demolition				
Building Demolition	55,332	2,800		
Asphalt Demolition*	126,972	3,292		
New Construction	***SQFT***	***Building Footprint***	***ACRES***	**Units**
Student Housing (Apartments Mid-Rise)	471,522	52,688	1.21	420
Total Residential Area	**471,522**	**52,688**	**1.21**	
Retail	**12,438**	12,438	0.29	
Parking Structure	145,952	19,110	0.44	
Total Hardscape	58,275	58,275	1.34	
Total Landscaping	10,189	10,189	0.23	

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage*	Land Use Square Feet
Residential	Apartments (Mid-Rise)	420	DU	1.21	471,522
Retail	Regional Shopping Center	12.438	1000 sqft	0.29	12,438
Parking	Enclosed Parking with Elevator	145.952	1000 sqft	0.44	145,952
Parking	Other Non-asphalt Surfaces	68.464	1000 sqft	1.57	68,464
				3.51	

Demolition

Component	Amount to be Demolished (Tons)	Haul Truck Capacity (Tons)[1]	Haul Distance (miles)	Total Trip Ends	Duration (days)	Trip Ends/Day
Total Building Demo 2022	2,800	20	20	280	45	6
Total Asphalt Demo 2022	3,292	20	20	330	45	7
Total	6,092			610		

Soil Haul[1]

Construction Activities	Volume (CY)	Haul Truck Capacity (cy)	Haul Distance (miles)	Total Trip Ends	Total Days	Trip Ends/Day
Rough Grading (Export)	8000	16	20	1000	10	100
Fine Grading (Export)	2,000	16	20	250	10	25

Architectural Coating

	Student Housing	Retail	Parking Structure
Percentage of Buildings' Interior Painted (%):	100%	100%	0%
Percentage of Buildings' Exterior Painted (%):	5%	5%	50%
Interior Paint VOC content (grams/liter):	100	100	100
Exterior Paint VOC content (grams/liter):	100	100	100

Structures	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Residential Structures					
Apartment	471,522	2.7	1,273,109	954,832	15,914
				954,832	**15,914**
Non-Residential Structures					
Retail	12,438	2.0	24,876	18,657	311
Parking Structure	145,952	2.0	291,904	0	36,488
				18,657	**36,799**
Parking					
Parking Strucuture (Striping)	145,952	6%	8,757	-	8,757
					8,757

[1]CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

[2] The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

[3] 100% of the interior and exterior of buildings to be modernized will be painted

Construction Mitigation

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
Replace Ground Cover	PM2.5:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph
SCAQMD Rule 1186	Clean Paved Road	9	% PM Reduction

Southern California Edison Carbon Intensity Factors

CO2:[1,2]	531.44	pounds per megawatt hour
CH4:[3]	0.029	pound per megawatt hour
N2O:[3]	0.00617	pound per megawatt hour

[1] Based on CO_2e intensity factor of 534 pounds per megawatt hour; Southern California Edison. 2020. 2019 Sustainability Report. https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf.

[2] Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

[3] CalEEMod default values.

Global Warming Potentials (GWP)

	AR4	AR5
CO_2	1	1
CH_4	25	28
N_2O	298	265

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC).

Construction Activities and Schedule Assumptions: Fullerton Hub Project

based on durations provided by Applicant

Construction Schedule

Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Building and Asphalt Demolition and Demolition Reprocessing	Demolition	1/1/2022	3/4/2022	45
Building Demolition Debris Haul 2022	Demolition	1/1/2022	3/4/2022	45
Asphalt Demolition Debris Haul 2022	Demolition	1/1/2022	3/4/2022	45
Site Preparation	Site Preparation	3/24/2022	4/6/2022	10
Rough Grading	Grading	4/7/2022	4/20/2022	10
Rough Grading Soil Haul	Grading	4/7/2022	4/20/2022	10
Ground/Soil Improvement	Site Preparation	4/13/2022	6/7/2022	40
Fine Grading	Grading	5/31/2022	6/13/2022	10
Fine Grading Soil Haul	Grading	5/31/2022	6/13/2022	10
Utility Trenching	Trenching	6/14/2022	7/12/2022	21
Building Construction	Building Construction	7/13/2022	3/12/2024	435
Paving	Paving	1/24/2024	3/12/2024	35
Architectural Coating	Architectural Coating	1/24/2024	3/12/2024	35
Finishing/Landscaping	Trenching	1/10/2024	3/26/2024	55

Overlapping Construction Schedule

Construction Activities	Start Date	End Date	CalEEMod Duration (Workday)
Building and Asphalt Demolition, Demolition Reprocessing, Building and Asphalt Debris Haul	1/1/2022	3/4/2022	45
Site Preparation	3/24/2022	4/6/2022	10
Rough Grading and Soil Haul	4/7/2022	4/12/2022	4
Rough Grading and Soil Haul and Ground/Soil Improvement	4/13/2022	4/20/2022	
Ground/Soil Improvement	4/21/2022	5/30/2022	
Ground/Soil Improvement and Fine Grading and Soil H	5/31/2022	6/7/2022	6
Fine Grading and Soil Haul	6/8/2022	6/13/2022	4
Utility Trenching	6/14/2022	7/12/2022	21
Building Construction 2022	7/13/2022	12/31/2022	123
Building Construction 2023	1/1/2023	12/31/2023	260
Building Construction 2024	1/1/2024	1/9/2024	7
Building Construction 2024 and Finishing/Landscaping	1/10/2024	1/23/2024	10
Building Construction 2024, Finishing/Landscaping, Paving, and Architectural Coating	1/24/2024	3/12/2024	35
Finishing/Landscaping	3/13/2024	3/26/2024	10

CalEEMod Construction Off-Road Equipment Inputs

**Based on equipment mix provided by the Applicant.*

General Construction Hours: 8 hours btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

Construction Equipment Details						
Equipment	**model**	**# of Equipment**	**hr/day**	**hp**	**load factor***	**total trips/Day**
Building and Asphalt Demolition and Demolition Reprocessing						
Excavator W/Thumb	EC380E	2	8	307	0.38	
Skid Steer	242D	1	8	73	0.3685	
Wheel Loader	950H	1	8	197	0.3685	
Worker Trips						10
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						2
Site Preparation						
Skid Steer	Bobcat S740	1	8	74	0.3685	
Excavator	CAT320	2	8	162	0.38	
Worker Trips						8
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						2
Rough Grading						
Motor Grader	Caterpiller 140	1	8	179	0.41	
Vibratory Compactor	Caterpiller CS563	1	8	157	0.43	
Self loading Scraper	Caterpiller 623	2	8	407	0.4824	
Dozer	Caterpiller D6	1	8	215	0.3953	
Rubber Tire Dozer	Caterpiller 824	1	8	405	0.3953	
Worker Trips						15
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						2
Rough Grading Soil Haul						
Excavator	Caterpiller 349	1	8	424	0.38	
Wheel Loader	Caterpiller 950	1	8	250	0.37	
Worker Trips						5
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						1,000
Ground/Soil Improvement						
Bore/Drill Rig*		1	8	221	0.5025	
Loader*		1	8	97	0.37	
Worker Trips						5
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
***proxy for geopier equipment**						
Fine Grading						
Motor Grader	Caterpiller 140	1	8	179	0.41	
Vibratory Compactor	Caterpiller CS563	1	8	157	0.43	
Self loading Scraper	Caterpiller 623	1	8	407	0.4824	
Worker Trips						8
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						2
Fine Grading Soil Haul						
Wheel Loader	Caterpiller 950	1	8	250	0.37	
Worker Trips						3
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						250

Utility Trenching						
Excavator	Volvo EC360BLC 2005	1	8	265	0.3819	
Mini Excavator	CAT 304E2 8K 2019	1	8	41	0.3819	
Loader	Volvo L120H 2017	1	8	241	0.3685	
Loader	JD 210L 2020	1	8	93	0.3685	
Skid Steer	CAT 272C	1	8	90	0.3685	
Backhoe	CAT 430F 2015	1	8	109	0.3685	
Worker Trips						15
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Building Construction*						
Electric Self-Erecting Tower Crane	Potain MDT219	1	8			
Electric Material Hoist		1	8			
Worker Trips**						60
Vendor Trips						3
Hauling Trips (TOTAL TRIPS)						0

** equipment provided would use electricty and were not included in the model as it would not generate emissions from fuel use.*

***worker trips provided by applicant*

Equipment Electricity Use:

	Total Average kW [1]	Total Construction Days[2]	Hours[2]	Kwh (Total)
Electric Crane	52.00	435	8	180,960
Electric Materials Hoist	45.00	435	8	156,600
			Total Annual kWh	337,560

Calculation of GHGs from Electric Equipment Use

CO_2 [3]	CH_4 [4]	N_2O [4]	CO_2e	CO_2e
lbs/Mwh	lbs/Mwh	lbs/Mwh	lbs/Mwh	MT/Kwh
531.43634	0.02900	0.00617	531.47	0.000241
				MT (Total)
			CO_2e from Lighting	**81.38**

[1] *Based on the specifications of the Potain MDT 219 Crane and a standard Electric Hoist*
Potain MDT Crane: https://ccgroup-inc.com/wp-content/uploads/2020/12/Potain-MDT-219-J10.pdf
Electric Hoist: https://lfcyglobal.en.made-in-china.com/product/ZSrxOmgchyRQ/China-Competitive-Price-Building-Hoist-Construction-Lifer-Electric-Material-Hoist.html

[2] *Based on total number of building construction work days and assumes an 8 hour work day.*

[3] *Based on SCE 2019 Sustainability Report. See Const_LandUse Tab for calculations.*

[4] *California Air Pollution Control Officers Association (CAPCOA). 2016. California Emissions Estimator Model*

Paving*						
Cement and Mortar Mixers		2	6	9	0.56	
Pavers		1	8	130	0.42	
Paving Equipment		2	6	132	0.36	
Rollers		2	6	80	0.38	
Tractors/Loaders/Backhoes		1	8	97	0.37	
Worker Trips						20
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0

** CalEEMod default equipment mix*

Architectural Coating*						
Air Compressors		1	6	78	0.48	
Worker Trips**						12
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0

** CalEEMod default equipment mix*

*** Architectural coating worker trips are 20% of building construction trips based on CalEEMod methodology*

Finishing/Landscaping						
Excavator		1	8	158	0.3819	
Excavator		1	8	158	0.3819	
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0

Construction Trips Worksheet

Phase Name	Worker Trip Ends Per Day	Vendor Trip Ends Per Day	Haul Truck Trip Ends Per Day	Total Haul Truck Trip Ends	Start Date	End Date	Workdays
Building and Asphalt Demolition and Demolition Reprocessing	10	2	0	0	1/1/2022	3/4/2022	45
Building Demolition Debris Haul 2022	0	0	7	280	1/1/2022	3/4/2022	45
Asphalt Demolition Debris Haul 2022	0	0	8	330	1/1/2022	3/4/2022	45
Site Preparation	8	2	0	0	3/24/2022	4/6/2022	10
Rough Grading	15	2	0	0	4/7/2022	4/20/2022	10
Rough Grading Soil Haul	5	0	100	1,000	4/7/2022	4/20/2022	10
Ground/Soil Improvements	5	0	0	0	4/13/2022	6/7/2022	40
Fine Grading	8	2	0	0	5/31/2022	6/13/2022	10
Fine Grading Soil Haul	3	0	25	250	5/31/2022	6/13/2022	10
Utility Trenching	15	0	0	0	6/14/2022	7/12/2022	21
Building Construction	60	3	0	0	7/13/2022	3/12/2024	435
Paving	20	0	0	0	1/24/2024	3/12/2024	35
Architectural Coating	12	0	0	0	1/24/2024	3/12/2024	35
Finishing/Landscaping	0	0	0	0	1/10/2024	3/26/2024	55

Construction Activity (Overlapping)	Worker Trip Ends Per Day	Vendor Trip Ends Per Day	Haul Truck Trip Ends Per Day	Total Trip Ends Per Day	Start Date	End Date	Workdays
Building and Asphalt Demolition, Demolition Reprocessing, Building and Asphalt Debris Haul 2021	10	2	15	27	1/1/2022	3/4/2022	45
Site Preparation	8	2	0	10	3/24/2022	4/6/2022	10
Rough Grading and Soil Haul	20	2	100	122	4/7/2022	4/12/2022	4
Rough Grading and Soil Haul and Ground/Soil Improvement	25	2	100	127	4/13/2022	4/20/2022	6
Ground/Soil Improvement	5	0	0	5	4/21/2022	5/30/2022	28
Ground/Soil Improvement and Fine Grading and Soil Hau	16	2	25	43	5/31/2022	6/7/2022	6
Fine Grading and Soil Haul	11	2	25	38	6/8/2022	6/13/2022	4
Utility Trenching	15	0	0	15	6/14/2022	7/12/2022	21
Building Construction 2022	60	3	0	63	7/13/2022	12/31/2022	123
Building Construction 2023	60	3	0	63	1/1/2023	12/31/2023	260
Building Construction 2024	60	3	0	63	1/1/2024	1/9/2024	7
Building Construction 2024 and Finishing/Landscaping	60	3	0	63	1/10/2024	1/23/2024	10
Building Construction 2024, Finishing/Landscaping, Paving, and Architectural Coating	92	3	0	95	1/24/2024	3/12/2024	35
Finishing/Landscaping	8	2	0	10	3/13/2024	3/26/2024	10
Maximum Daily Trips	**92**	**3**	**100**	**127**			

CalEEMod Inputs - The Hub Fullerton Project, Existing Conditions

Name:	The Hub Fullerton
Project Number:	FUL-07
Project Location:	Northeast corner of East Chapman Avenue and Commonwealth Avenue
County/Air Basin:	Orange County
Climate Zone:	8
Land Use Setting:	Urban
Operational Year:	2024
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	South Coast AQMD
SRA:	16- North Orange County

Proiect Site Acreage	3.55
Disturbed Site Acreage	3.55

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Commercial	General Office Building	55.332	1000 sqft	0.64	55,332
Parking	Parking Lot	126.972	1000 sqft	2.91	126,972
				3.55	

Trips - Provided by Fehr & Peers

Land Use Type	Average Daily Trips	CalEEMod Trip	Saturday Trips	CalEEMod Trip	Sunday Trips	CalEEMod Trip
General Office Building	400	**7.23**	90	**1.63**	30	**0.54**
Total	**400**		**90**		**30**	

	Annual Vehicle Miles Traveled*	Daily Vehicle Miles Traveled**
Existing VMT	**975,755**	**2,681**

* CalEEMod Default

** Daily VMT is calculated based on weekday VMT / 364 days per year.

Water Use and Wastewater Generation

Wastewater is treated by the Orange County Sanitation District (OCSD), which provides tertiary treated wastewater throughout the County of Orange. Therefore, CalEEMod defaults reflect 100% aerobic treatment.

Land Use	Sewer Study (unadjusted)[1]	Indoor[2]	Outdoor[3]	Total
Total Water Use (gal/day)	8,030	8,922	16,513	25,435
Total Water Use (gal/year)	2,930,950	3,256,611	6,027,295	9,283,907

Notes:

1 Sewer generation coefficent and peak flow factor taken from the OCSD Engineering Design Guidelines dated 10/20/2014 (see Sewer Study in Appendix to the MND)

2 Indoor water use is adjusted to reflect the water purveyor losses in getting the potable water to the customers of 90%. The 90% factor for indoor water to wastewater is due to I/I – inflow and infiltration due to leaks in the sewer pipes that transport the wastewater to the sewage treatment plants.

3 Existing outdoor water use is based on CalEEMod defaults.

Solid Waste (CalEEMod Defaults)

Land Use	(tons/year)
General Office Building	51.46

Architectural Coating

Percent Interior Painted (%):	100%
Percent Exterior Painted (%):	100%
Interior Paint VOC content (grams/liter):	100
Exterior Paint VOC content (grams/liter):	100

Structures	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Non-Residential Structures					
General Office Building	55,332	2.0	110,664	82,998	27,666
				82,998	**27,666**
Parking					
Parking Lot	126,972	6%	7,618	-	7,618
					7,618

Notes

1 CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

2 The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

3 100% of the interior and exterior of buildings to be modernized will be painted

Electricity (Buildings)

Existing Energy

Existing land uses modeled using historic energy demand rates in CalEEMod. Modeling is conservative because the net increase in energy use due to the project is likely smaller than reflected due to improved building energy efficiency between the project and existing land uses.

Southern California Edison Carbon Intensity Factors

	lbs/MWH
CO_2e[1]	534
CO2:[2]	531.44
CH4:[3]	0.029
N2O:[3]	0.00617

Notes:

Based on CO2e intensity factor of 534 pounds per megawatt hour; Southern California Edison. 2020. 2019 Sustainability Report.

1 https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf.

2 CO_2 back-calculated from CO_2e based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O.

3 CalEEMod default values.

Global Warming Potentials (GWP)		
	AR4	**AR5**
CO_2	1	1
CH_4	25	28
N_2O	298	265
Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC).		

CalEEMod Inputs - The Hub Fullerton Project, Operations

Name:	The Hub Fullerton
Project Number:	FUL-07
Project Location:	Northeast corner of East Chapman Avenue and Commonwealth Avenue
County/Air Basin:	Orange County
Climate Zone:	8
Land Use Setting:	Urban
Operational Year:	2024
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	16- North Orange County

Proiect Site Acreage	3.55
Disturbed Site Acreage	3.55

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Residential	Apartments (Mid-Rise)	420	DU	1.21	471,522
Retail	Regional Shopping Center	12.438	1000 sqft	0.29	12,438
Parking	Enclosed Parking with Elevator	145.952	1000 sqft	0.44	145,952
Parking	Other Non-asphalt Surfaces	68.464	1000 sqft	1.57	68,464
				3.51	

Trips - Fehr & Peers

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips	CalEEMod Trip Rate
Apartments (Mid-Rise)	1,437	**3.42**	1,297	**3.09**	1,081	**2.57**
Regional Shopping Center	296	**23.80**	361	**29.02**	166	**13.35**
Total	**1,733**		**1,658**		**1,247**	

	Average Trip Rate (mi/trip)	Weekday VMT	Annual Vehicle Miles Traveled*
Project VMT	**5.94**	**10,296**	**3,572,705**

Source: Fehr and Peers. 2021. Hub Fullerton Transportation Impact Assessment.

* *From CalEEMod*

	Trip Type Percentages		
	Primary	**Diverted**	**Passby**
Apartments (Mid-Rise)	86%	11%	3%
Regional Shopping Center	86%	11%	3%
Adjusted Trip Type Percentages	**100%**	**0%**	**0%**

Water Use and Wastewater Generation

Wastewater is treated by the Orange County Sanitation District (OCSD), which provides tertiary treated wastewater throughout the County of Orange. Therefore, CalEEMod defaults reflect 100% aerobic treatment.

Land Use	Sewer Study (unadjusted)[1]	Indoor[2]	Outdoor[3]	Total
Total Water Use (gal/day)	93,650	104,056	426	104,481
Total Water Use (gal/year)	34,182,250	37,980,278	155,398	38,135,675

Notes:

1 Sewer generation coefficent and peak flow factor taken from the OCSD Engineering Design Guidelines dated 10/20/2014 (see Sewer Study in Appendix to the MND)

2 Indoor water use is adjusted to reflect the water purveyor losses in getting the potable water to the customers of 90%. The 90% factor for indoor water to wastewater is due to I/I – inflow and infiltration due to leaks in the sewer pipes that transport the wastewater to the sewage treatment plants.

3 Annual outdoor water use is based on calculations from the State Department of Water Resources Water Budget Worksheet for residential uses.

Solid Waste (CalEEMod Defaults)

Land Use	(tons/year)
Apartments Mid Rise	193.20
Enclosed Parking with Elevator	0.00
Other Non-Asphalt Surfaces	0.00
Regional Shopping Center	13.06
TOTAL	206.26

Architectural Coating

* See Architectural Coating for Construction Model

Fireplaces

**assuming no woodstoves*

Land Use	# Wood	# Gas	# Propane	# No Fireplace	Hours/Day	Days/Year[1]	BTU/hr/fireplace	KBTU
Grill[2]	0	3	0	414	3	104	60,000.00	56,160.00
Fire Pit[2]	0	3	0	414	3	104	60,000.00	56,160.00
Average Use	**0**	**6**	**0**	**414**	**3**	**104**	**60,000**	**112,320**

1 *assumes weekend use only*

2 *assumes grills and firepits will consume 60,000 BTU/hr (CalEEMod default BTU for fireplace)*

Boilers

Boilers would be permitted by the South Coast AQMD and would comply with Rule 1146.2, which requires Low-NOx efficient boilers. Pursuant to the CalEEMod User´s Guide, the 'Process Boilers´ option should not be used for boilers providing heating or building hot water as natural gas use from the boilers is accounted for in the energy rates in CalEEMod

Electricity (Buildings)

Additional Electricity Reductions[2]	**10.7%**	more efficient than 2016 Title 24 electricity rates
Additional Natural Gas Reductions[2]	**1%**	more efficient than 2016 Title 24 natural gas rates
Multifamily Residential Additional Electricity Reductions[2]	**2.0%**	more efficient than 2016 Title 24 electricity rates
Multifamily Residential Additional Natural Gas Reductions[2]	**5%**	more efficient than 2016 Title 24 natural gas rates

Sources:

[1] California Energy Commission (CEC). 2018. 2019 Building Energy and Efficiency Standards Frequently Asked Questions. Accessed on April 3, 2019. http://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf

[2] NORESCO. 2018. 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings

**Multi-family of 4 stories and higher are treated as non-residential for the Building and Energy Efficiency Standards.*

Default CalEEMod Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Lighting Energy Intensity (KWhr/size/year)	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
Apartments Mid Rise	**179.76**	3,054.10	741.44	**5,911.46**	5,516.00
Enclosed Parking with Elevator	**3.92**	0.19	1.75	**0.00**	0.00
Other Non-Asphalt Surfaces	**0.00**	0.00	0.00	**0.00**	0.00
Regional Shopping Center	**2.93**	2.80	5.71	**0.95**	1.05

Adjusted CalEEMod Energy Use ONLY NORESCO

Land Use Subtype	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Lighting Energy Intensity (KWhr/size/year)	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
Apartments Mid Rise	**176.16**	3,054.10	741.44	**5,615.89**	5,516.00
Enclosed Parking with Elevator	**3.50**	0.19	1.75	**0.00**	0.00
Other Non-Asphalt Surfaces	**0.00**	0.00	0.00	**0.00**	0.00
Regional Shopping Center	**2.62**	2.80	5.71	**0.94**	1.05

Southern California Edison Carbon Intensity Factors

	lbs/MWH
CO_2e[1]	534
CO2:[2]	531.44
CH4:[3]	0.029
N2O:[3]	0.00617

Notes:

1 Based on CO_2e intensity factor of 534 pounds per megawatt hour; Southern California Edison. 2019, May. 2018 Sustainability Report.
2 CO_2 back-calculated from CO_2e based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O.
3 CalEEMod default values.

Global Warming Potentials (GWP)		
	AR4	**AR5**
CO_2	1	1
CH_4	25	28
N_2O	298	265
Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC).		

Changes to the CalEEMod Defaults - Fleet Mix 2024

Weekday Trips 1,437

Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877	100%
Trips	812	62	301	156	21	8	38	26	3	2	7	1	1	1,437
Percent	82%			11%	7%									100%
without buses/MH	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0	0	0.004953	0.000602	0.000877	100%
Percent	82%			11%	7%									100%
Adjusted without buses/MH	0.565244	0.042904	0.209304	0.108392	0.015275	0.006062	0.027589	0.018724	0.000000	0.000000	0.005201	0.000632	0.000921	
Percent adjusted	82%			11%	7%									100%
Assumed Mix	97.0%			2.00%	1.00%									100%
adjusted with Assumed	0.666486	0.050589	0.246793	0.020000	0.002207	0.000876	0.003987	0.002706	0.000000	0.000000	0.006133	0.000091	0.000133	100%
Percent Check:	97%			2%	1%									
Trips	958	73	355	29	3	1	6	4	0	0	9	0	0	1,437
	1,394			*29*	*14*									

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

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

Season	Pollutant	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
Annual	CH4_IDLEX	0	0	0	0	0.0058183	0.00425282	0.004913457	0.029180728	0.00906	0	0	0.0714282	0
Annual	CH4_RUNEX	0.0026622	0.0062082	0.0040565	0.0056007	0.0050096	0.003663309	0.005611295	0.143488843	0.0093584	0.0012642	0.3521134	0.0114268	0.0096937
Annual	CH4_STREX	0.0511764	0.0727858	0.0690132	0.0837837	0.016229	0.011586755	0.01208686	8.15026E-07	0.0230147	0.0337336	0.2374018	0.0071319	0.0223705
Annual	CO_IDLEX	0	0	0	0	0.1898945	0.155572043	0.38643527	5.390923897	0.5515108	0	0	2.7963869	0
Annual	CO_RUNEX	0.6772983	1.2596582	0.9115226	1.116694	0.5725131	0.409306589	0.508562417	0.835157213	1.0077586	0.0909909	18.896761	1.0346099	1.1634717
Annual	CO_STREX	2.1133824	2.3237347	2.6897699	3.1190621	1.0861479	0.759714254	1.307966412	0.011132203	2.4359934	1.8117994	8.432182	1.0183561	1.9849567
Annual	CO2_NBIO_IDLEX	0	0	0	0	9.0516755	13.60684734	56.75144888	1057.870099	84.33171	0	0	356.18273	0
Annual	CO2_NBIO_RUNEX	266.12491	313.7664	341.79023	421.68217	667.71993	679.1017315	1086.342195	1517.437281	1422.0952	438.73091	214.48583	1128.8206	1462.9884
Annual	CO2_NBIO_STREX	54.351313	65.263011	71.476129	86.918885	12.4108	10.0115083	12.85582774	0.086566412	20.276829	22.756268	60.108064	5.7940876	18.140058
Annual	NOX_IDLEX	0	0	0	0	0.0605983	0.092760902	0.425018678	5.918100863	0.5205649	0	0	3.8198954	0
Annual	NOX_RUNEX	0.0383528	0.1007462	0.0735592	0.1026863	0.8116797	0.935087861	1.961193427	3.925745664	1.848041	0.0788058	1.120463	6.3320408	1.4399785
Annual	NOX_STREX[3]	0.1865516	0.263371	0.290118	0.3589188	0.3444016	0.248909147	1.103398402	1.993253306	0.6098473	0.2417472	0.2626822	0.550729	0.227852
Annual	PM10_IDLEX	0	0	0	0	0.0007559	0.001197431	0.001450524	0.008487913	0.0020433	0	0	0.0063356	0
Annual	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060168391	0.13034	0.0245273	0.01176	0.7448002	0.13034
Annual	PM10_PMTW	0.008	0.008	0.008	0.008	0.0096464	0.010448076	0.012000003	0.035070902	0.012	0.0022582	0.004	0.0106332	0.0132121
Annual	PM10_RUNEX	0.0016723	0.002306	0.0016369	0.001785	0.0072149	0.01011673	0.053042719	0.050099556	0.0359005	8.972E-05	0.0021162	0.0434156	0.0305379
Annual	PM10_STREX	0.0019248	0.0026454	0.001821	0.0019836	0.0002553	0.000149385	0.000119066	1.47834E-06	0.0001951	3.968E-05	0.0032682	6.512E-05	0.0002471
Annual	PM25_IDLEX	0	0	0	0	0.0007232	0.001145631	0.001387775	0.00812073	0.0019549	0	0	0.0060616	0
Annual	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025786453	0.05586	0.0105117	0.00504	0.3192001	0.05586
Annual	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024116	0.002612019	0.003000001	0.008767726	0.003	0.0005645	0.001	0.0026583	0.003303
Annual	PM25_RUNEX	0.0015403	0.0021217	0.0015065	0.0016466	0.0068769	0.009664063	0.050742199	0.047932232	0.0343322	8.249E-05	0.0019796	0.0415199	0.0291823
Annual	PM25_STREX	0.0017699	0.0024325	0.0016744	0.0018249	0.0002348	0.000137354	0.000109476	1.35928E-06	0.0001794	3.648E-05	0.0030806	5.987E-05	0.0002272
Annual	ROG_DIURN	0.0503149	0.1236128	0.0717127	0.0823805	0.0022568	0.00145685	0.000487315	5.80304E-06	0.0018494	0.0026629	1.1565654	0.0011352	0.803119
Annual	ROG_HTSK	0.0959653	0.1943433	0.1224889	0.1402908	0.0719889	0.049492839	0.019666527	0.000242728	0.0212384	0.032411	0.7153915	0.0103435	0.0557098
Annual	ROG_IDLEX	0	0	0	0	0.0229506	0.018888472	0.023638021	0.412676086	0.0592205	0	0	0.3358753	0
Annual	ROG_RESTL	0.0483637	0.106141	0.0755152	0.0901415	0.0014216	0.000933696	0.00032888	4.10628E-06	0.0009779	0.0018538	0.7240955	0.000575	0.3468891
Annual	ROG_RUNEX	0.0102921	0.0271312	0.0162632	0.0246358	0.0467663	0.047975622	0.094206648	0.116035103	0.1001765	0.0042691	2.4024984	0.1364137	0.0593193
Annual	ROG_RUNLS	0.0251129	0.0819097	0.0489726	0.0538385	0.168717	0.107019455	0.019647438	9.90157E-05	0.0649773	0.0075402	0.5752928	0.0193012	0.01321
Annual	ROG_STREX	0.2292047	0.3627361	0.3183315	0.410922	0.0788576	0.056226993	0.061400734	4.2665E-06	0.1188067	0.1464465	1.8179911	0.0418849	0.0913064
Annual	SO2_IDLEX	0	0	0	0	8.794E-05	0.000130569	0.000540325	0.009694121	0.0008033	0	0	0.0033995	0
Annual	SO2_RUNEX	0.0026267	0.0030978	0.0033737	0.0041596	0.0065213	0.006578388	0.01039974	0.013431586	0.0138022	0.0043416	0.0021225	0.0107991	0.0143459
Annual	SO2_STREX	0.0005366	0.0006443	0.0007057	0.0008582	0.0001228	9.9072E-05	0.000127219	8.56645E-07	0.0002007	0.0002252	0.0005948	5.734E-05	0.0001795
Annual	TOG_DIURN	0.0503149	0.1236128	0.0717127	0.0823805	0.0022568	0.00145685	0.000487315	5.80304E-06	0.0018494	0.0026629	1.1565654	0.0011352	0.803119
Annual	TOG_HTSK	0.0959653	0.1943433	0.1224889	0.1402908	0.0719889	0.049492839	0.019666527	0.000242728	0.0212384	0.032411	0.7153915	0.0103435	0.0557098
Annual	TOG_IDLEX	0	0	0	0	0.0325212	0.026056394	0.032381138	0.479881628	0.076582	0	0	0.4823253	0
Annual	TOG_RESTL	0.0483637	0.106141	0.0755152	0.0901415	0.0014216	0.000933696	0.00032888	4.10628E-06	0.0009779	0.0018538	0.7240955	0.000575	0.3468891
Annual	TOG_RUNEX	0.0149616	0.039542	0.0236825	0.0348608	0.0586731	0.057075185	0.109620566	0.271310933	0.1233614	0.0062295	2.9688012	0.165971	0.0795263
Annual	TOG_RUNLS	0.0251129	0.0819097	0.0489726	0.0538385	0.168717	0.107019455	0.019647438	9.90157E-05	0.0649773	0.0075402	0.5752928	0.0193012	0.01321
Annual	TOG_STREX	0.2509488	0.3971475	0.3485321	0.4498754	0.0863392	0.06156148	0.067226075	4.67128E-06	0.1300784	0.1603404	1.9783863	0.0458587	0.099969
Summer	CH4_IDLEX	0	0	0	0	0.0058302	0.004261536	0.004651502	0.030213878	0.0090787	0	0	0.071437	0
Summer	CH4_RUNEX	0.0028325	0.0065571	0.0043054	0.0059079	0.0050977	0.003700791	0.005647391	0.143490635	0.009494	0.0012927	0.3453667	0.0115597	0.0098982
Summer	CH4_STREX	0.0464351	0.0657139	0.0625838	0.0759224	0.0157155	0.011220824	0.011684026	7.82825E-07	0.0221876	0.0314866	0.2132976	0.0064082	0.021477
Summer	CO_IDLEX	0	0	0	0	0.1898945	0.155572043	0.306998009	5.250641928	0.5262973	0	0	2.7492343	0

Summer	CO_RUNEX	0.738223	1.3602007	0.9898505	1.2032454	0.5814664	0.413051631	0.512509636	0.835641687	1.0234144	0.0926823	18.172488	1.0499407	1.1903254
Summer	CO_STREX	1.8219035	1.9979302	2.3171433	2.6860249	1.0419007	0.728861372	1.246574526	0.010609711	2.311646	1.6059776	7.7377408	0.8411907	1.8830973
Summer	CO2_NBIO_IDLEX	0	0	0	0	9.0516755	13.60684734	57.73082646	1057.017712	84.934254	0	0	367.48083	0
Summer	CO2_NBIO_RUNEX	277.0349	324.92208	352.80887	433.25061	667.73607	679.1083559	1086.349145	1517.438097	1422.1229	438.73395	213.12379	1128.8479	1463.0357
Summer	CO2_NBIO_STREX	53.811201	64.618923	70.77693	86.091841	12.33165	9.956181018	12.75090126	0.085737692	20.064702	22.39574	58.356221	5.4989568	17.966999
Summer	NOX_IDLEX	0	0	0	0	0.0605983	0.092760902	0.428196473	5.778824464	0.5205055	0	0	3.9282039	0
Summer	NOX_RUNEX	0.0339295	0.0885966	0.0648912	0.0906285	0.7638127	0.883071004	1.85324123	3.718998106	1.7355231	0.0697721	0.9847034	5.9792455	1.3460302
Summer	NOX_STREX[3]	0.1734844	0.2449821	0.2698104	0.3338083	0.3307364	0.239033078	1.098777747	1.993196651	0.5998071	0.2317825	0.2496622	0.54766	0.218397
Summer	PM10_IDLEX	0	0	0	0	0.0007559	0.001197431	0.001224758	0.007807302	0.0017267	0	0	0.005346	0
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060168391	0.13034	0.0245273	0.01176	0.7448002	0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0096464	0.010448076	0.012000003	0.035070902	0.012	0.0022582	0.004	0.0106332	0.0132121
Summer	PM10_RUNEX	0.0016723	0.002306	0.0016369	0.001785	0.0072149	0.01011673	0.053042719	0.050099556	0.0359005	8.972E-05	0.0021162	0.0434156	0.0305379
Summer	PM10_STREX	0.0019248	0.0026454	0.001821	0.0019836	0.0002553	0.000149385	0.000119066	1.47834E-06	0.0001951	3.968E-05	0.0032682	6.512E-05	0.0002471
Summer	PM25_IDLEX	0	0	0	0	0.0007232	0.001145631	0.001171776	0.007469561	0.001652	0	0	0.0051148	0
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025786453	0.05586	0.0105117	0.00504	0.3192001	0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024116	0.002612019	0.003000001	0.008767726	0.003	0.0005645	0.001	0.0026583	0.003303
Summer	PM25_RUNEX	0.0015403	0.0021217	0.0015065	0.0016466	0.0068769	0.009664063	0.050742199	0.047932232	0.0343322	8.249E-05	0.0019796	0.0415199	0.0291823
Summer	PM25_STREX	0.0017699	0.0024325	0.0016744	0.0018249	0.0002348	0.000137354	0.000109476	1.35928E-06	0.0001794	3.648E-05	0.0030806	5.987E-05	0.0002272
Summer	ROG_DIURN	0.0739087	0.1813282	0.1053335	0.1209872	0.0031604	0.002040503	0.000689465	8.51979E-06	0.0025309	0.0036376	1.7396862	0.0015477	1.0783608
Summer	ROG_HTSK	0.0982598	0.2000683	0.1253615	0.1432665	0.0730327	0.050523824	0.02017116	0.000246164	0.0215333	0.0330443	0.7578991	0.0104269	0.055798
Summer	ROG_IDLEX	0	0	0	0	0.0229506	0.018888472	0.022512789	0.429090582	0.0592601	0	0	0.3350709	0
Summer	ROG_RESTL	0.0665299	0.1466542	0.1029879	0.1229141	0.001945	0.001276555	0.000456027	6.08571E-06	0.0013344	0.0024726	1.1382663	0.0007854	0.4662573
Summer	ROG_RUNEX	0.0108614	0.0284897	0.0171368	0.0256431	0.0472174	0.048135225	0.094367235	0.116046116	0.100848	0.0043508	2.3424882	0.1371051	0.0604015
Summer	ROG_RUNLS	0.0235989	0.0755458	0.0454329	0.0501419	0.1629153	0.103087395	0.018863252	9.72469E-05	0.0632405	0.0068077	0.5387149	0.0173921	0.0128906
Summer	ROG_STREX	0.2062335	0.3250569	0.2863729	0.3694684	0.0761719	0.054313389	0.05913185	4.10884E-06	0.11433	0.1362322	1.6220518	0.0376216	0.0878493
Summer	SO2_IDLEX	0	0	0	0	8.794E-05	0.000130569	0.000549754	0.009685096	0.000809	0	0	0.0035062	0
Summer	SO2_RUNEX	0.0027344	0.003208	0.0034825	0.0042738	0.0065214	0.006578454	0.010399809	0.013431594	0.0138025	0.0043416	0.002109	0.0107994	0.0143464
Summer	SO2_STREX	0.0005313	0.000638	0.0006988	0.00085	0.000122	9.85245E-05	0.000126181	8.48444E-07	0.0001986	0.0002216	0.0005775	5.442E-05	0.0001778
Summer	TOG_DIURN	0.0739087	0.1813282	0.1053335	0.1209872	0.0031604	0.002040503	0.000689465	8.51979E-06	0.0025309	0.0036376	1.7396862	0.0015477	1.0783608
Summer	TOG_HTSK	0.0982598	0.2000683	0.1253615	0.1432665	0.0730327	0.050523824	0.02017116	0.000246164	0.0215333	0.0330443	0.7578991	0.0104269	0.055798
Summer	TOG_IDLEX	0	0	0	0	0.0325212	0.026056394	0.030771904	0.498839249	0.076627	0	0	0.4814096	0
Summer	TOG_RESTL	0.0665299	0.1466542	0.1029879	0.1229141	0.001945	0.001276555	0.000456027	6.08571E-06	0.0013344	0.0024726	1.1382663	0.0007854	0.4662573
Summer	TOG_RUNEX	0.0157923	0.0415244	0.0249572	0.0363813	0.0593314	0.057308077	0.109854895	0.271327003	0.1243413	0.0063487	2.8968413	0.1669799	0.0811056
Summer	TOG_RUNLS	0.0235989	0.0755458	0.0454329	0.0501419	0.1629153	0.103087395	0.018863252	9.72469E-05	0.0632405	0.0068077	0.5387149	0.0173921	0.0128906
Summer	TOG_STREX	0.2257984	0.3558942	0.3135417	0.4044932	0.0833987	0.059466325	0.064741933	4.49866E-06	0.125177	0.1491571	1.7652286	0.0411909	0.0961839

Winter	CH4_IDLEX	0	0	0	0	0.0058161	0.004251174	0.005290456	0.018088907	0.0090542	0	0	0.0714766	0
Winter	CH4_RUNEX	0.0026083	0.0060953	0.0039776	0.0055001	0.0049859	0.003653327	0.005599216	0.005036142	0.0093186	0.0012576	0.3534373	0.0113893	0.0096321
Winter	CH4_STREX	0.0522025	0.0743172	0.0704044	0.0854827	0.0163345	0.011661969	0.012156186	8.22675E-07	0.0231971	0.0342054	0.2421179	0.0072358	0.0225693
Winter	CO_IDLEX	0	0	0	0	0.1898945	0.155572043	0.49740152	5.417119895	0.5863294	0	0	2.8615024	0
Winter	CO_RUNEX	0.6545061	1.2215436	0.8821253	1.0831327	0.5701406	0.408302138	0.507385586	0.459955504	1.003103	0.0905856	19.005068	1.0301974	1.1555486
Winter	CO_STREX	2.1772594	2.395117	2.7715626	3.2140513	1.0928188	0.764438278	1.319688181	0.011232219	2.4558962	1.8485389	8.5477794	1.0348692	2.000715
Winter	CO2_NBIO_IDLEX	0	0	0	0	9.0516755	13.60684734	55.39148043	1027.42313	83.499625	0	0	340.58058	0
Winter	CO2_NBIO_RUNEX	262.09948	309.64925	337.72445	417.41167	667.71564	679.0999518	1086.340122	1421.631547	1422.087	438.73019	214.69965	1128.8128	1462.9745
Winter	CO2_NBIO_STREX	54.46933	65.403476	71.629082	87.099573	12.42322	10.02031193	12.87617297	0.086725067	20.311668	22.821708	60.41943	5.822304	18.167523
Winter	NOX_IDLEX	0	0	0	0	0.0605983	0.092760902	0.420629275	5.916808043	0.520647	0	0	3.6703265	0
Winter	NOX_RUNEX	0.0371798	0.097822	0.0713481	0.099625	0.7971096	0.918535607	1.924443435	3.778199659	1.8137951	0.076774	1.0935445	6.222306	1.4119202
Winter	NOX_STREX[3]	0.1895455	0.2676021	0.2947739	0.3646814	0.3478185	0.251379846	1.104572503	1.993267702	0.6124416	0.2439934	0.2657706	0.5515208	0.2302951
Winter	PM10_IDLEX	0	0	0	0	0.0007559	0.001197431	0.001762295	0.008981556	0.0024806	0	0	0.0077023	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.058443069	0.13034	0.0245273	0.01176	0.7448002	0.13034
Winter	PM10_PMTW	0.008	0.008	0.008	0.008	0.0096464	0.010448076	0.012000003	0.034064883	0.012	0.0022582	0.004	0.0106332	0.0132121
Winter	PM10_RUNEX	0.0016723	0.002306	0.0016369	0.001785	0.0072149	0.01011673	0.053042719	0.049949536	0.0359005	8.972E-05	0.0021162	0.0434156	0.0305379
Winter	PM10_STREX	0.0019248	0.0026454	0.001821	0.0019836	0.0002553	0.000149385	0.000119066	1.47834E-06	0.0001951	3.968E-05	0.0032682	6.512E-05	0.0002471
Winter	PM25_IDLEX	0	0	0	0	0.0007232	0.001145631	0.001686059	0.008593018	0.0023733	0	0	0.0073691	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025047029	0.05586	0.0105117	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024116	0.002612019	0.003000001	0.008516221	0.003	0.0005645	0.001	0.0026583	0.003303
Winter	PM25_RUNEX	0.0015403	0.0021217	0.0015065	0.0016466	0.0068769	0.009664063	0.050742199	0.047788702	0.0343322	8.249E-05	0.0019796	0.0415199	0.0291823
Winter	PM25_STREX	0.0017699	0.0024325	0.0016744	0.0018249	0.0002348	0.000137354	0.000109476	1.35928E-06	0.0001794	3.648E-05	0.0030806	5.987E-05	0.0002272
Winter	ROG_DIURN	0.0500183	0.1261738	0.0694513	0.079104	0.0023614	0.001501557	0.000498498	6.05885E-06	0.0019065	0.0025391	1.2834672	0.0011729	0.8826119
Winter	ROG_HTSK	0.1035288	0.2175396	0.1315343	0.1494037	0.08193	0.055421142	0.021230999	0.000270177	0.0225292	0.0342366	0.917545	0.0112433	0.0666153
Winter	ROG_IDLEX	0	0	0	0	0.0229506	0.018888472	0.025211404	0.389449216	0.0591659	0	0	0.3369861	0
Winter	ROG_RESTL	0.0484021	0.1063707	0.0753015	0.0900122	0.0014457	0.000932936	0.000331178	4.29774E-06	0.0009818	0.0017546	0.7646011	0.0005683	0.3565712
Winter	ROG_RUNEX	0.0100992	0.0266602	0.015967	0.024262	0.046643	0.047932128	0.094158493	0.106892355	0.0999751	0.0042496	2.41436	0.1362141	0.0589941
Winter	ROG_RUNLS	0.0286025	0.096719	0.0571957	0.0624494	0.1829182	0.116677009	0.021602999	0.000105472	0.0694726	0.0092002	0.6596936	0.0234933	0.0139717
Winter	ROG_STREX	0.2341354	0.3707975	0.3251908	0.419798	0.0794077	0.05661897	0.061926669	4.30304E-06	0.1197873	0.1485929	1.8565479	0.0424932	0.0920473
Winter	SO2_IDLEX	0	0	0	0	8.794E-05	0.000130569	0.00052723	0.009706584	0.0007954	0	0	0.0032521	0
Winter	SO2_RUNEX	0.0025869	0.0030572	0.0033336	0.0041175	0.0065212	0.006578371	0.010399719	0.013431584	0.0138021	0.0043416	0.0021246	0.010799	0.0143458
Winter	SO2_STREX	0.0005378	0.0006457	0.0007072	0.0008599	0.0001229	9.91591E-05	0.00012742	8.58215E-07	0.000201	0.0002258	0.0005979	5.762E-05	0.0001798
Winter	TOG_DIURN	0.0500183	0.1261738	0.0694513	0.079104	0.0023614	0.001501557	0.000498498	6.05885E-06	0.0019065	0.0025391	1.2834672	0.0011729	0.8826119
Winter	TOG_HTSK	0.1035288	0.2175396	0.1315343	0.1494037	0.08193	0.055421142	0.021230999	0.000270177	0.0225292	0.0342366	0.917545	0.0112433	0.0666153
Winter	TOG_IDLEX	0	0	0	0	0.0325212	0.026056394	0.034631855	0.443358287	0.0765198	0	0	0.48359	0
Winter	TOG_RESTL	0.0484021	0.1063707	0.0753015	0.0900122	0.0014457	0.000932936	0.000331178	4.29774E-06	0.0009818	0.0017546	0.7646011	0.0005683	0.3565712
Winter	TOG_RUNEX	0.0146803	0.0388551	0.0232503	0.034307	0.0584933	0.05701172	0.1095503	0.121846151	0.1230676	0.006201	2.9829679	0.1656798	0.0790518
Winter	TOG_RUNLS	0.0286025	0.096719	0.0571957	0.0624494	0.1829182	0.116677009	0.021602999	0.000105472	0.0694726	0.0092002	0.6596936	0.0234933	0.0139717
Winter	TOG_STREX	0.2563472	0.4059737	0.3560422	0.4595926	0.0869414	0.061990646	0.067801908	4.71129E-06	0.1311521	0.1626905	2.0203338	0.0465247	0.1007802

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

2 Unless otherwise noted, per CalEEMod methodology, the calculated CalEEMod emission rates are derived from the emission rates obtained from EMFAC2017 Version 1.0.3.

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

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: Sub-Area
Region: Orange (SC)
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX, RESTLOSS and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips
Orange (SC)	2021	HHDT	Aggregate	Aggregate	Gasoline	9.817535344	1000.457735	196.4292472
Orange (SC)	2021	HHDT	Aggregate	Aggregate	Diesel	10769.38522	1223413.181	107670.4954
Orange (SC)	2021	HHDT	Aggregate	Aggregate	Natural Gas	864.7854825	35199.86136	3372.663382
Orange (SC)	2021	LDA	Aggregate	Aggregate	Gasoline	1272194.252	49395344.62	6031793.312
Orange (SC)	2021	LDA	Aggregate	Aggregate	Diesel	11968.50216	478206.5743	56894.24355
Orange (SC)	2021	LDA	Aggregate	Aggregate	Electricity	24402.3541	969374.2917	121670.9087
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Gasoline	138088.6679	5154285.362	639473.8437
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Diesel	52.53006429	1053.207272	175.5674352
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Electricity	736.4099521	29846.36824	3686.952909
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Gasoline	451361.7314	16989288.78	2116057.763
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Diesel	2682.916665	117528.5037	13243.22453
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Electricity	3387.284773	112687.7678	17148.89595
Orange (SC)	2021	LHDT1	Aggregate	Aggregate	Gasoline	36469.93186	1349254.713	543347.6444
Orange (SC)	2021	LHDT1	Aggregate	Aggregate	Diesel	22847.66428	943814.0687	287394.8743
Orange (SC)	2021	LHDT2	Aggregate	Aggregate	Gasoline	6432.280162	228273.1716	95831.39032
Orange (SC)	2021	LHDT2	Aggregate	Aggregate	Diesel	8869.193114	360087.5062	111563.2919
Orange (SC)	2021	MCY	Aggregate	Aggregate	Gasoline	57618.81526	414997.9139	115237.6305
Orange (SC)	2021	MDV	Aggregate	Aggregate	Gasoline	313061.5155	11280043.77	1450191.278
Orange (SC)	2021	MDV	Aggregate	Aggregate	Diesel	6526.199201	268374.8474	31964.49387
Orange (SC)	2021	MDV	Aggregate	Aggregate	Electricity	1390.884605	48350.43346	7141.914624
Orange (SC)	2021	MH	Aggregate	Aggregate	Gasoline	6951.392672	65646.83572	695.4173229
Orange (SC)	2021	MH	Aggregate	Aggregate	Diesel	2962.130067	28541.01333	296.2130067
Orange (SC)	2021	MHDT	Aggregate	Aggregate	Gasoline	7541.153449	404522.6567	150883.3982
Orange (SC)	2021	MHDT	Aggregate	Aggregate	Diesel	28151.45987	1820284.477	295512.1312
Orange (SC)	2021	OBUS	Aggregate	Aggregate	Gasoline	1004.319594	44567.4328	20094.42644
Orange (SC)	2021	OBUS	Aggregate	Aggregate	Diesel	626.2060636	46634.44185	6107.600707
Orange (SC)	2021	SBUS	Aggregate	Aggregate	Gasoline	502.9339776	21212.30254	2011.73591
Orange (SC)	2021	SBUS	Aggregate	Aggregate	Diesel	1306.944821	40864.66059	15081.96203
Orange (SC)	2021	UBUS	Aggregate	Aggregate	Gasoline	211.0170233	19935.56685	844.0680932
Orange (SC)	2021	UBUS	Aggregate	Aggregate	Diesel	0	0	0
Orange (SC)	2021	UBUS	Aggregate	Aggregate	Natural Gas	742.5582597	86003.65359	2970.233039

Vehicle Category	Fuel	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW
HHDT	Gasoline	4.688643662	0	0.749266522	0.001234357	0	0.000769774	0.005000001	0.026460008
HHDT	Diesel	3.952631075	59.16896451	2.057959313	0.049201741	0.080232352	0	0.008764124	0.025766523
HHDT	Natural Gas	2.969627858	24.41499107	0	0.005136173	0.04543729	0	0.009000003	0.026460008
LDA	Gasoline	0.03878996	0	0.192035855	0.001512751	0	0.00182068	0.002000001	0.015750005
LDA	Diesel	0.070138661	0	0	0.007372266	0	0	0.002000001	0.015750005
LDA	Electricity	0	0	0	0	0	0	0.002000001	0.015750005
LDT1	Gasoline	0.101116597	0	0.264908815	0.002099477	0	0.002445021	0.002000001	0.015750005
LDT1	Diesel	1.044294963	0	0	0.161880566	0	0	0.002000001	0.015750005
LDT1	Electricity	0	0	0	0	0	0	0.002000001	0.015750005
LDT2	Gasoline	0.074253328	0	0.294226043	0.001490486	0	0.001696933	0.002000001	0.015750005
LDT2	Diesel	0.041599181	0	0	0.005064984	0	0	0.002000001	0.015750005
LDT2	Electricity	0	0	0	0	0	0	0.002000001	0.015750005
LHDT1	Gasoline	0.190220249	0.039618653	0.526567201	0.001086009	0	0.00035893	0.002000001	0.032760009
LHDT1	Diesel	1.700103754	2.140117373	0	0.015155475	0.02629406	0	0.003000001	0.032760009
LHDT2	Gasoline	0.195408487	0.039913074	0.538679793	0.000954966	0	0.000297256	0.002000001	0.038220011
LHDT2	Diesel	1.403998761	2.140147975	0	0.015185091	0.026789104	0	0.003000001	0.038220011
MCY	Gasoline	1.120463031	0	0.26268224	0.001979605	0	0.00308058	0.001	0.005040001
MDV	Gasoline	0.104249204	0	0.36852383	0.001570703	0	0.001872411	0.002000001	0.015750005
MDV	Diesel	0.054621004	0	0	0.005074772	0	0	0.002000001	0.015750005
MDV	Electricity	0	0	0	0	0	0	0.002000001	0.015750005
MH	Gasoline	0.366560789	0	0.324905618	0.001224168	0	0.000323928	0.003000001	0.055860016
MH	Diesel	3.908933607	0	0	0.09348843	0	0	0.004000001	0.055860016
MHDT	Gasoline	0.307892376	0.089727843	0.329435472	0.000802519	0	0.000323891	0.003000001	0.055860016
MHDT	Diesel	2.328607281	6.715452322	1.498570528	0.061840317	0.022005835	0	0.003000001	0.055860016
OBUS	Gasoline	0.458167331	0.064999797	0.315495691	0.000773767	0	0.000233933	0.003000001	0.055860016
OBUS	Diesel	3.176310375	21.6774909	1.578284475	0.066403116	0.081798698	0	0.003000001	0.055860016
SBUS	Gasoline	0.6502523	0.923111492	0.54978786	0.001268218	0	0.000508738	0.002000001	0.319200087
SBUS	Diesel	9.28138169	49.60567079	0.550854587	0.062413993	0.079280059	0	0.003000001	0.319200091
UBUS	Gasoline	0.418780228	0	1.092443505	0.000438376	0	0.000164867	0.003000002	0.055860034
UBUS	Diesel	0	0	0	0	0	0	0	0
UBUS	Natural Gas	4.882131277	0	0	0.006130469	0	0	0.008648113	0.028184288

Vehicle Category	Fuel	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUNEX	CO2_IDLEX	CO2_STREX
HHDT	Gasoline	0.001342476	0	0.0008372	0.020000006	0.061740018	2004.975667	0	49.02331058
HHDT	Diesel	0.051426426	0.083860103	0	0.035056494	0.060121888	1462.057733	10598.87601	0
HHDT	Natural Gas	0.005368408	0.047491763	0	0.03600001	0.061740018	3428.362643	4086.163945	0
LDA	Gasoline	0.001645238	0	0.001980051	0.008000002	0.036750011	271.271294	0	55.83191546
LDA	Diesel	0.007705607	0	0	0.008000002	0.036750011	209.5563373	0	0
LDA	Electricity	0	0	0	0.008000002	0.036750011	0	0	0
LDT1	Gasoline	0.002283228	0	0.00265894	0.008000002	0.036750011	314.8389394	0	65.50654504
LDT1	Diesel	0.169200087	0	0	0.008000002	0.036750011	412.7288639	0	0
LDT1	Electricity	0	0	0	0.008000002	0.036750011	0	0	0
LDT2	Gasoline	0.001621004	0	0.001845509	0.008000002	0.036750011	343.6338272	0	72.33633976
LDT2	Diesel	0.005294	0	0	0.008000002	0.036750011	288.7517709	0	0
LDT2	Electricity	0	0	0	0.008000002	0.036750011	0	0	0
LHDT1	Gasoline	0.001181134	0	0.000390369	0.008000002	0.076440022	802.9000401	121.9799672	18.97528989
LHDT1	Diesel	0.015840738	0.027482961	0	0.012000003	0.076440022	474.4695752	134.4124528	0
LHDT2	Gasoline	0.001038613	0	0.000323293	0.008000002	0.089180026	923.435158	141.104104	21.66652885
LHDT2	Diesel	0.015871693	0.028000389	0	0.012000003	0.089180026	524.2094754	215.8445111	0
MCY	Gasoline	0.002116229	0	0.003268181	0.004000001	0.011760003	214.4858323	0	60.1080643
MDV	Gasoline	0.001707426	0	0.002035242	0.008000002	0.036750011	423.487891	0	89.05793987
MDV	Diesel	0.005304231	0	0	0.008000002	0.036750011	380.8172267	0	0
MDV	Electricity	0	0	0	0.008000002	0.036750011	0	0	0
MH	Gasoline	0.001331394	0	0.000352301	0.012000003	0.130340037	1672.309227	0	25.86681533
MH	Diesel	0.097715562	0	0	0.016000005	0.130340037	981.5322307	0	0
MHDT	Gasoline	0.000872812	0	0.000352261	0.012000003	0.130340037	1674.797632	550.0576995	38.03456243
MHDT	Diesel	0.064636462	0.023000841	0	0.012000003	0.130340037	955.5694731	752.5550593	0
OBUS	Gasoline	0.000841542	0	0.000254423	0.012000003	0.130340037	1674.957356	381.2507744	26.43986996
OBUS	Diesel	0.06940557	0.085497272	0	0.012000003	0.130340037	1180.440876	2917.193282	0
SBUS	Gasoline	0.001379303	0	0.000553299	0.008000002	0.744800204	878.3472875	2613.251667	49.23229903
SBUS	Diesel	0.065236077	0.082864752	0	0.012000003	0.744800213	1258.838033	3652.936838	0
UBUS	Gasoline	0.000476774	0	0.000179308	0.012000007	0.130340079	2331.45168	0	102.8344286
UBUS	Diesel	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0.006407661	0	0	0.034592453	0.065763339	1978.142485	0	0

Vehicle Category	Fuel	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX
HHDT	Gasoline	0.119092058	0	0.000461556	0.160415213	0	0.016915179
HHDT	Diesel	0.005088325	0.197732892	0	0.229815115	1.665995711	0
HHDT	Natural Gas	4.954457417	1.291176289	0	0.698894152	0.832991251	0
LDA	Gasoline	0.002732515	0	0.05269142	0.004519052	0	0.026285983
LDA	Diesel	0.000797487	0	0	0.032939338	0	0
LDA	Electricity	0	0	0	0	0	0
LDT1	Gasoline	0.006243338	0	0.073225412	0.007904645	0	0.029465933
LDT1	Diesel	0.009949751	0	0	0.06487523	0	0
LDT1	Electricity	0	0	0	0	0	0
LDT2	Gasoline	0.004105641	0	0.070004421	0.00648303	0	0.033471667
LDT2	Diesel	0.0008416	0	0	0.045387757	0	0
LDT2	Electricity	0	0	0	0	0	0
LHDT1	Gasoline	0.006159228	0.129339755	0.024813034	0.012030026	0.003376574	0.042985025
LHDT1	Diesel	0.003366186	0.005098128	0	0.07458001	0.021127766	0
LHDT2	Gasoline	0.00461589	0.13009321	0.025075619	0.013189425	0.003289352	0.042663985
LHDT2	Diesel	0.003059431	0.005098128	0	0.082398429	0.033927751	0
MCY	Gasoline	0.352113437	0	0.237401836	0.065014746	0	0.015045055
MDV	Gasoline	0.00574206	0	0.086043032	0.008374252	0	0.03694765
MDV	Diesel	0.000669874	0	0	0.059859165	0	0
MDV	Electricity	0	0	0	0	0	0
MH	Gasoline	0.012447131	0	0.031899144	0.023407991	0	0.035230331
MH	Diesel	0.003360465	0	0	0.154283198	0	0
MHDT	Gasoline	0.008685963	0.272752675	0.035759536	0.016974515	0.008352847	0.028748673
MHDT	Diesel	0.00492801	0.004847897	0	0.150202214	0.118291175	0
OBUS	Gasoline	0.012390247	0.19922466	0.030009842	0.022925166	0.00557727	0.025684813
OBUS	Diesel	0.006460956	0.059572116	0	0.185548867	0.45854216	0
SBUS	Gasoline	0.019421156	2.389394643	0.06059944	0.032817255	0.084290511	0.0492728
SBUS	Diesel	0.007277081	0.014739796	0	0.197871808	0.574190801	0
UBUS	Gasoline	0.006718066	0	0.15244035	0.032207301	0	0.084550209
UBUS	Diesel	0	0	0	0	0	0
UBUS	Natural Gas	8.972063114	0	0	0.403257286	0	0

Vehicle Category	Fuel	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN
HHDT	Gasoline	0.621725248	0	0.002416155	0.137459192	0.634943903	0.046527091	0.065752504
HHDT	Diesel	0.109550237	4.257134937	0	0	0	0	0
HHDT	Natural Gas	0.327051549	0.068446657	0	0	0	0	0
LDA	Gasoline	0.010425367	0	0.235942933	0.098697832	0.211659131	0.235918552	0.245150581
LDA	Diesel	0.017169429	0	0	0	0	0	0
LDA	Electricity	0	0	0	0.004888026	0	0.007848423	0.023069309
LDT1	Gasoline	0.027244641	0	0.364854066	0.195469458	0.664099832	0.49440514	0.575714648
LDT1	Diesel	0.214212283	0	0	0	0	0	0
LDT1	Electricity	0	0	0	0.004888026	0	0.007848423	0.023069309
LDT2	Gasoline	0.016355009	0	0.322838961	0.124196115	0.398476923	0.359017445	0.340822306
LDT2	Diesel	0.018119162	0	0	0	0	0	0
LDT2	Electricity	0	0	0	0.004888026	0	0.007848423	0.023069309
LHDT1	Gasoline	0.028784896	0.454025953	0.120568105	0.110066308	0.712029749	0.032381928	0.051408129
LHDT1	Diesel	0.072472007	0.109759705	0	0	0	0	0
LHDT2	Gasoline	0.019751844	0.457674185	0.121684339	0.107110537	0.657050251	0.030104963	0.046972925
LHDT2	Diesel	0.065867748	0.109759705	0	0	0	0	0
MCY	Gasoline	2.402498371	0	1.817991095	0.715391503	2.071765046	1.448191089	2.313130773
MDV	Gasoline	0.02497943	0	0.421918737	0.144035499	0.430487882	0.428744002	0.391759365
MDV	Diesel	0.014422	0	0	0	0	0	0
MDV	Electricity	0	0	0	0.004888026	0	0.007848423	0.023069309
MH	Gasoline	0.053654458	0	0.130198334	0.07943933	1.789177939	0.049484444	0.114566555
MH	Diesel	0.072348834	0	0	0	0	0	0
MHDT	Gasoline	0.040694361	1.009610711	0.181656918	0.058184333	0.289705567	0.019467919	0.028846413
MHDT	Diesel	0.106098708	0.104373895	0	0	0	0	0
OBUS	Gasoline	0.059445	0.7453241	0.154917446	0.027693664	0.29491014	0.025512406	0.04825039
OBUS	Diesel	0.139102619	1.282571312	0	0	0	0	0
SBUS	Gasoline	0.097383902	10.59105139	0.355895593	0.087888615	0.595585272	0.019542649	0.038582139
SBUS	Diesel	0.156673548	0.31734376	0	0	0	0	0
UBUS	Gasoline	0.022686378	0	0.661784187	0.146463835	0.946372893	0.033509348	0.040144988
UBUS	Diesel	0	0	0	0	0	0	0
UBUS	Natural Gas	0.128193079	0	0	0	0	0	0

Vehicle Category	Fuel	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN
HHDT	Gasoline	0.907220022	0	0.002645385	0.137459192	0.634943903	0.046527091	0.065752504
HHDT	Diesel	0.124714605	4.846424067	0	0	0	0	0
HHDT	Natural Gas	5.348367298	1.374707198	0	0	0	0	0
LDA	Gasoline	0.015207761	0	0.25832618	0.098697832	0.211659131	0.235918552	0.245150581
LDA	Diesel	0.019546253	0	0	0	0	0	0
LDA	Electricity	0	0	0	0.004888026	0	0.007848423	0.023069309
LDT1	Gasoline	0.039721227	0	0.399466445	0.195469458	0.664099832	0.49440514	0.575714648
LDT1	Diesel	0.243866442	0	0	0	0	0	0
LDT1	Electricity	0	0	0	0.004888026	0	0.007848423	0.023069309
LDT2	Gasoline	0.023855953	0	0.353467261	0.124196115	0.398476923	0.359017445	0.340822306
LDT2	Diesel	0.020627462	0	0	0	0	0	0
LDT2	Electricity	0	0	0	0.004888026	0	0.007848423	0.023069309
LHDT1	Gasoline	0.042002853	0.662513605	0.132006899	0.110066308	0.712029749	0.032381928	0.051408129
LHDT1	Diesel	0.082504562	0.124954127	0	0	0	0	0
LHDT2	Gasoline	0.028821844	0.667837097	0.133229035	0.107110537	0.657050251	0.030104963	0.046972925
LHDT2	Diesel	0.074986052	0.124954127	0	0	0	0	0
MCY	Gasoline	2.968801153	0	1.978386297	0.715391503	2.071765046	1.448191089	2.313130773
MDV	Gasoline	0.035441949	0	0.461914493	0.144035499	0.430487882	0.428744002	0.391759365
MDV	Diesel	0.016418489	0	0	0	0	0	0
MDV	Electricity	0	0	0	0.004888026	0	0.007848423	0.023069309
MH	Gasoline	0.07829246	0	0.142550788	0.07943933	1.789177939	0.049484444	0.114566555
MH	Diesel	0.082364337	0	0	0	0	0	0
MHDT	Gasoline	0.059381115	1.47322158	0.19889146	0.058184333	0.289705567	0.019467919	0.028846413
MHDT	Diesel	0.120785303	0.118821734	0	0	0	0	0
OBUS	Gasoline	0.086742005	1.087575177	0.169615104	0.027693664	0.29491014	0.025512406	0.04825039
OBUS	Diesel	0.158357743	1.460109807	0	0	0	0	0
SBUS	Gasoline	0.142102361	15.45443732	0.389660877	0.087888615	0.595585272	0.019542649	0.038582139
SBUS	Diesel	0.178360909	0.361271715	0	0	0	0	0
UBUS	Gasoline	0.03310391	0	0.724570385	0.146463835	0.946372893	0.033509348	0.040144988
UBUS	Diesel	0	0	0	0	0	0	0
UBUS	Natural Gas	9.156648486	0	0	0	0	0	0

Vehicle Category	Fuel	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
HHDT	Gasoline	29.41433969	0	6.30426348	0.01984086	0	0.000485125
HHDT	Diesel	0.449660143	54.05189492	0	0.013812797	0.100132925	0
HHDT	Natural Gas	13.4212844	20.3269773	0	0	0	0
LDA	Gasoline	0.694382806	0	2.174859492	0.002684449	0	0.000552502
LDA	Diesel	0.249677443	0	0	0.001981061	0	0
LDA	Electricity	0	0	0	0	0	0
LDT1	Gasoline	1.266339028	0	2.336602135	0.003115587	0	0.00064824
LDT1	Diesel	1.162528849	0	0	0.003901772	0	0
LDT1	Electricity	0	0	0	0	0	0
LDT2	Gasoline	0.922352115	0	2.727038508	0.003400535	0	0.000715827
LDT2	Diesel	0.153377826	0	0	0.002729743	0	0
LDT2	Electricity	0	0	0	0	0	0
LHDT1	Gasoline	0.696147088	3.755637931	1.660648041	0.007945347	0.001207091	0.000187776
LHDT1	Diesel	0.395768827	0.909745076	0	0.004485444	0.001270681	0
LHDT2	Gasoline	0.502339436	3.761669113	1.644144948	0.009138139	0.001396339	0.000214408
LHDT2	Diesel	0.350329528	0.909745076	0	0.004955665	0.002040507	0
MCY	Gasoline	18.89676147	0	8.432181977	0.002122511	0	0.000594818
MDV	Gasoline	1.1415969	0	3.201571142	0.004190756	0	0.000881301
MDV	Diesel	0.247195188	0	0	0.003600092	0	0
MDV	Electricity	0	0	0	0	0	0
MH	Gasoline	1.533725593	0	2.830449011	0.016548855	0	0.000255973
MH	Diesel	0.311855377	0	0	0.009279009	0	0
MHDT	Gasoline	1.06909026	14.43365023	3.869679275	0.01657348	0.005443267	0.000376383
MHDT	Diesel	0.383996056	2.26121863	0	0.009027747	0.007109767	0
OBUS	Gasoline	1.526084831	5.768988932	3.17640142	0.016575061	0.003772785	0.000261644
OBUS	Diesel	0.512406531	13.82418909	0	0.01115222	0.027560196	0
SBUS	Gasoline	2.219309911	81.93552533	8.652961002	0.008691958	0.025860244	0.000487194
SBUS	Diesel	0.419647789	5.044156265	0	0.011892878	0.034511136	0
UBUS	Gasoline	0.483533151	0	8.187430198	0.023071604	0	0.00101763
UBUS	Diesel	0	0	0	0	0	0
UBUS	Natural Gas	34.25126673	0	0	0	0	0

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: Sub-Area
Region: Orange (SC)
Calendar Year: 2021
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX, RESTLOSS and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW
Orange (SC)	2021	HHDT	Aggregate	Aggregate	Gasoline	9.817535344	1000.457735	196.4292472	4.124347087	0	0.717182702	0.001234357	0	0.000769774	0.005000001	0.026460008
Orange (SC)	2021	HHDT	Aggregate	Aggregate	Diesel	10769.38522	1223413.181	107670.4954	3.745034557	57.75893858	2.057959313	0.049201741	0.074057619	0	0.008764124	0.025766523
Orange (SC)	2021	HHDT	Aggregate	Aggregate	Natural Gas	864.7854825	35199.86136	3372.663382	2.802549262	24.05890629	0	0.005136173	0.038571297	0	0.009000003	0.026460008
Orange (SC)	2021	LDA	Aggregate	Aggregate	Gasoline	1272194.252	49395344.62	6031793.312	0.034273808	0	0.17858455	0.001512751	0	0.00182068	0.002000001	0.015750005
Orange (SC)	2021	LDA	Aggregate	Aggregate	Diesel	11968.50216	478206.5743	56894.24355	0.066434111	0	0	0.007372266	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDA	Aggregate	Aggregate	Electricity	24402.3541	969374.2917	121670.9087	0	0	0	0	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Gasoline	138088.6679	5154285.362	639473.8437	0.088907836	0	0.246412499	0.002099477	0	0.002445021	0.002000001	0.015750005
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Diesel	52.53006429	1053.207272	175.5674352	0.989165889	0	0	0.161880566	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Electricity	736.4099521	29846.36824	3686.952909	0	0	0	0	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Gasoline	451361.7314	16989288.78	2116057.763	0.065484855	0	0.273630885	0.001490486	0	0.001696933	0.002000001	0.015750005
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Diesel	2682.916665	117528.5037	13243.22453	0.039400937	0	0	0.005064984	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Electricity	3387.284773	112687.7678	17148.89595	0	0	0	0	0	0	0.002000001	0.015750005
Orange (SC)	2021	LHDT1	Aggregate	Aggregate	Gasoline	36469.93186	1349254.713	543347.6444	0.168882277	0.039618653	0.505674044	0.001086009	0	0.00035893	0.002000001	0.032760009
Orange (SC)	2021	LHDT1	Aggregate	Aggregate	Diesel	22847.66428	943814.0687	287394.8743	1.614311457	2.140117373	0	0.015155475	0.02629406	0	0.003000001	0.032760009
Orange (SC)	2021	LHDT2	Aggregate	Aggregate	Gasoline	6432.280162	228273.1716	95831.39032	0.17296547	0.039913074	0.517306376	0.000954966	0	0.000297256	0.002000001	0.038220011
Orange (SC)	2021	LHDT2	Aggregate	Aggregate	Diesel	8869.193114	360087.5062	111563.2919	1.333233921	2.140147975	0	0.015185091	0.026789104	0	0.003000001	0.038220011
Orange (SC)	2021	MCY	Aggregate	Aggregate	Gasoline	57618.81526	414997.9139	115237.6305	0.984703397	0	0.249662236	0.001979605	0	0.00308058	0.001	0.005040001
Orange (SC)	2021	MDV	Aggregate	Aggregate	Gasoline	313061.5155	11280043.77	1450191.278	0.09192396	0	0.342741387	0.001570703	0	0.001872411	0.002000001	0.015750005
Orange (SC)	2021	MDV	Aggregate	Aggregate	Diesel	6526.199201	268374.8474	31964.49387	0.051735558	0	0	0.005074772	0	0	0.002000001	0.015750005
Orange (SC)	2021	MDV	Aggregate	Aggregate	Electricity	1390.884605	48350.43346	7141.914624	0	0	0	0	0	0	0.002000001	0.015750005
Orange (SC)	2021	MH	Aggregate	Aggregate	Gasoline	6951.392672	65646.83572	695.4173229	0.322152747	0	0.311423216	0.001224168	0	0.000323928	0.003000001	0.055860016
Orange (SC)	2021	MH	Aggregate	Aggregate	Diesel	2962.130067	28541.01333	296.2130067	3.701038118	0	0	0.09348843	0	0	0.004000001	0.055860016
Orange (SC)	2021	MHDT	Aggregate	Aggregate	Gasoline	7541.153449	404522.6567	150883.3982	0.271103522	0.092897003	0.315765048	0.000802519	0	0.000323891	0.003000001	0.055860016
Orange (SC)	2021	MHDT	Aggregate	Aggregate	Diesel	28151.45987	1820284.477	295512.1312	2.204840421	6.764993423	1.498570528	0.061840317	0.018580757	0	0.003000001	0.055860016
Orange (SC)	2021	OBUS	Aggregate	Aggregate	Gasoline	1004.319594	44567.4328	20094.42644	0.403271645	0.064999797	0.302403817	0.000773767	0	0.000233933	0.003000001	0.055860016
Orange (SC)	2021	OBUS	Aggregate	Aggregate	Diesel	626.2060636	46634.44185	6107.600707	3.008724265	21.67500437	1.578284475	0.066403116	0.069123083	0	0.003000001	0.055860016
Orange (SC)	2021	SBUS	Aggregate	Aggregate	Gasoline	502.9339776	21212.30254	2011.73591	0.573099208	0.923111492	0.523710568	0.001268218	0	0.000508738	0.002000001	0.319200087
Orange (SC)	2021	SBUS	Aggregate	Aggregate	Diesel	1306.944821	40864.66059	15081.96203	8.785504234	51.02225158	0.550854587	0.062413993	0.066896508	0	0.003000001	0.319200091
Orange (SC)	2021	UBUS	Aggregate	Aggregate	Gasoline	211.0170233	19935.56685	844.0680932	0.37077448	0	1.047413455	0.000438376	0	0.000164867	0.003000002	0.055860034
Orange (SC)	2021	UBUS	Aggregate	Aggregate	Diesel	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2021	UBUS	Aggregate	Aggregate	Natural Gas	742.5582597	86003.65359	2970.233039	4.882131277	0	0	0.006130469	0	0	0.008648113	0.028184288

Vehicle Category	Fuel	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX
HHDT	Gasoline	0.001342476	0	0.0008372	0.020000006	0.061740018	2006.002311	0	48.55399924	0.121347343	0	0.00044332	0.146719859	0	0.01659586
HHDT	Diesel	0.051426426	0.077406176	0	0.035056494	0.060121888	1462.057733	10589.00868	0	0.005088325	0.205617441	0	0.229815115	1.664444704	0
HHDT	Natural Gas	0.005368408	0.04031532	0	0.03600001	0.061740018	3428.362643	4099.39944	0	4.954457417	1.325884836	0	0.698894152	0.835689393	0
LDA	Gasoline	0.001645238	0	0.001980051	0.008000002	0.036750011	282.4752366	0	55.27708998	0.002907761	0	0.047809774	0.004121909	0	0.02520093
LDA	Diesel	0.007705607	0	0	0.008000002	0.036750011	209.5563373	0	0	0.000797487	0	0	0.032939338	0	0
LDA	Electricity	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0	0
LDT1	Gasoline	0.002283228	0	0.00265894	0.008000002	0.036750011	326.0357446	0	64.8600531	0.006594394	0	0.066110815	0.007203179	0	0.028284485
LDT1	Diesel	0.169200087	0	0	0.008000002	0.036750011	412.7288639	0	0	0.009949751	0	0	0.06487523	0	0
LDT1	Electricity	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0	0
LDT2	Gasoline	0.001621004	0	0.001845509	0.008000002	0.036750011	354.7761528	0	71.62872593	0.004357889	0	0.063482692	0.005908996	0	0.032099541
LDT2	Diesel	0.005294	0	0	0.008000002	0.036750011	288.7517709	0	0	0.0008416	0	0	0.045387757	0	0
LDT2	Electricity	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0	0
LHDT1	Gasoline	0.001181134	0	0.000390369	0.008000002	0.076440022	802.9274653	121.9799672	18.85427519	0.006308883	0.12961034	0.024027986	0.01098806	0.003441091	0.042073002
LHDT1	Diesel	0.015840738	0.027482961	0	0.012000003	0.076440022	474.4695752	134.4124528	0	0.003366186	0.005098128	0	0.07458001	0.021127766	0
LHDT2	Gasoline	0.001038613	0	0.000323293	0.008000002	0.089180026	923.4522321	141.104104	21.54679163	0.004712498	0.130374222	0.024283683	0.011963342	0.003359976	0.04184201
LHDT2	Diesel	0.015871693	0.028000389	0	0.012000003	0.089180026	524.2094754	215.8445111	0	0.003059431	0.005098128	0	0.082398429	0.033927751	0
MCY	Gasoline	0.002116229	0	0.003268181	0.004000001	0.011760003	213.1237868	0	58.35622067	0.345366736	0	0.213297551	0.059329603	0	0.014846225
MDV	Gasoline	0.001707426	0	0.002035242	0.008000002	0.036750011	435.353863	0	88.21054212	0.006057874	0	0.077969727	0.007634559	0	0.035449745
MDV	Diesel	0.005304231	0	0	0.008000002	0.036750011	380.8172267	0	0	0.000669874	0	0	0.059859165	0	0
MDV	Electricity	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0	0
MH	Gasoline	0.001331394	0	0.000352301	0.012000003	0.130340037	1672.376994	0	25.62004194	0.012740656	0	0.030625162	0.021396121	0	0.035062599
MH	Diesel	0.097715562	0	0	0.016000005	0.130340037	981.5322307	0	0	0.003360465	0	0	0.154283198	0	0
MHDT	Gasoline	0.000872812	0	0.000352261	0.012000003	0.130340037	1674.835851	573.3489644	37.72413258	0.008884487	0.257526647	0.034567731	0.015405741	0.008862163	0.028250699
MHDT	Diesel	0.064636462	0.019420896	0	0.012000003	0.130340037	955.5694731	761.8457593	0	0.00492801	0.004772812	0	0.150202214	0.119751544	0
OBUS	Gasoline	0.000841542	0	0.000254423	0.012000003	0.130340037	1675.014063	381.2507744	26.16326868	0.012667756	0.199666288	0.028931359	0.020832875	0.005720053	0.025257124
OBUS	Diesel	0.06940557	0.072248522	0	0.012000003	0.130340037	1180.440876	2942.405234	0	0.006460956	0.059648988	0	0.185548867	0.462505127	0
SBUS	Gasoline	0.001379303	0	0.000553299	0.008000002	0.744800204	878.4271273	2613.251667	46.72457586	0.019810028	2.390963815	0.054450514	0.029934145	0.08671841	0.048296424
SBUS	Diesel	0.065236077	0.069921271	0	0.012000003	0.744800213	1258.838033	3800.706231	0	0.007277081	0.014251127	0	0.197871808	0.597418091	0
UBUS	Gasoline	0.000476774	0	0.000179308	0.012000007	0.130340079	2331.4678	0	101.2052203	0.006869533	0	0.142286252	0.029512184	0	0.083892493
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0.006407661	0	0	0.034592453	0.065763339	1978.142485	0	0	8.972063114	0	0	0.403257286	0	0

Vehicle Category	Fuel	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	TOG_RUNEX	TOG_IDLEX	TOG_STREX
HHDT	Gasoline	0.635590721	0	0.002326873	0.139404986	0.623601198	0.068955341	0.09653524	0.927452488	0	0.002547633
HHDT	Diesel	0.109550237	4.426887111	0	0	0	0	0	0.124714605	5.039673996	0
HHDT	Natural Gas	0.327051549	0.065920314	0	0	0	0	0	5.348367298	1.406686311	0
LDA	Gasoline	0.011011272	0	0.212296336	0.101060015	0.198898717	0.324427456	0.359984524	0.016062666	0	0.232436455
LDA	Diesel	0.017169429	0	0	0	0	0	0	0.019546253	0	0
LDA	Electricity	0	0	0	0.004888026	0	0.016337788	0.040293746	0	0	0
LDT1	Gasoline	0.028611039	0	0.326954952	0.20122848	0.612503022	0.683086706	0.844484041	0.041715197	0	0.357972254
LDT1	Diesel	0.214212283	0	0	0	0	0	0	0.243866442	0	0
LDT1	Electricity	0	0	0	0.004888026	0	0.016337788	0.040293746	0	0	0
LDT2	Gasoline	0.017240178	0	0.290427902	0.127109657	0.369675284	0.489586995	0.500560956	0.025147623	0	0.317981384
LDT2	Diesel	0.018119162	0	0	0	0	0	0	0.020627462	0	0
LDT2	Electricity	0	0	0	0.004888026	0	0.016337788	0.040293746	0	0	0
LHDT1	Gasoline	0.029551597	0.454025953	0.116461858	0.111662203	0.687544947	0.044305101	0.071990447	0.043121621	0.662513605	0.127511075
LHDT1	Diesel	0.072472007	0.109759705	0	0	0	0	0	0.082504562	0.124954127	0
LHDT2	Gasoline	0.020163211	0.457674185	0.117542989	0.109341756	0.632909211	0.041159706	0.065791512	0.02942211	0.667837097	0.128694778
LHDT2	Diesel	0.065867748	0.109759705	0	0	0	0	0	0.074986052	0.124954127	0
MCY	Gasoline	2.342488193	0	1.622051822	0.757899096	1.94003951	2.276532636	3.479372315	2.896841328	0	1.765228631
MDV	Gasoline	0.026014768	0	0.379355744	0.14709112	0.400930553	0.584596467	0.575324116	0.03700477	0	0.415317823
MDV	Diesel	0.014422	0	0	0	0	0	0	0.016418489	0	0
MDV	Electricity	0	0	0	0.004888026	0	0.016337788	0.040293746	0	0	0
MH	Gasoline	0.055207269	0	0.125268701	0.079565201	1.745910616	0.066512549	0.15383036	0.080558318	0	0.13715346
MH	Diesel	0.072348834	0	0	0	0	0	0	0.082364337	0	0
MHDT	Gasoline	0.041577563	0.949037796	0.174944321	0.059677313	0.278142573	0.026994308	0.040812601	0.060669882	1.384833725	0.191542011
MHDT	Diesel	0.106098708	0.102757325	0	0	0	0	0	0.120785303	0.116981392	0
OBUS	Gasoline	0.060819129	0.7453241	0.149080039	0.028078296	0.287027367	0.034814069	0.066030294	0.088747131	1.087575177	0.163223878
OBUS	Diesel	0.139102619	1.284226354	0	0	0	0	0	0.158357743	1.461993947	0
SBUS	Gasoline	0.099407243	10.59105139	0.31967043	0.088596938	0.536675159	0.02669313	0.052602867	0.145054816	15.45443732	0.349998883
SBUS	Diesel	0.156673548	0.30682286	0	0	0	0	0	0.178360909	0.34929447	0
UBUS	Gasoline	0.02312057	0	0.615626341	0.14932534	0.854433163	0.044694133	0.054840028	0.033737482	0	0.674033353
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0.128193079	0	0	0	0	0	0	9.156648486	0	0

Vehicle Category	Fuel	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
HHDT	Gasoline	0.139404986	0.623601198	0.068955341	0.09653524	30.02431095	0	6.00837152	0.019851019	0	0.000480481
HHDT	Diesel	0	0	0	0	0.449660143	52.67397025	0	0.013812797	0.100039704	0
HHDT	Natural Gas	0	0	0	0	13.4212844	19.44177884	0	0	0	0
LDA	Gasoline	0.101060015	0.198898717	0.324427456	0.359984524	0.757061651	0	1.874901639	0.002795321	0	0.000547012
LDA	Diesel	0	0	0	0	0.249677443	0	0	0.001981061	0	0
LDA	Electricity	0.004888026	0	0.016337788	0.040293746	0	0	0	0	0	0
LDT1	Gasoline	0.20122848	0.612503022	0.683086706	0.844484041	1.367433763	0	2.008993533	0.003226388	0	0.000641843
LDT1	Diesel	0	0	0	0	1.162528849	0	0	0.003901772	0	0
LDT1	Electricity	0.004888026	0	0.016337788	0.040293746	0	0	0	0	0	0
LDT2	Gasoline	0.127109657	0.369675284	0.489586995	0.500560956	1.001701707	0	2.349248917	0.003510798	0	0.000708824
LDT2	Diesel	0	0	0	0	0.153377826	0	0	0.002729743	0	0
LDT2	Electricity	0.004888026	0	0.016337788	0.040293746	0	0	0	0	0	0
LHDT1	Gasoline	0.111662203	0.687544947	0.044305101	0.071990447	0.711363357	3.755637931	1.592997118	0.007945618	0.001207091	0.000186578
LHDT1	Diesel	0	0	0	0	0.395768827	0.909745076	0	0.004485444	0.001270681	0
LHDT2	Gasoline	0.109341756	0.632909211	0.041159706	0.065791512	0.51199206	3.761669113	1.577374304	0.009138308	0.001396339	0.000213223
LHDT2	Diesel	0	0	0	0	0.350329528	0.909745076	0	0.004955665	0.002040507	0
MCY	Gasoline	0.757899096	1.94003951	2.276532636	3.479372315	18.17248756	0	7.737740844	0.002109033	0	0.000577482
MDV	Gasoline	0.14709112	0.400930553	0.584596467	0.575324116	1.230534029	0	2.757078684	0.004308179	0	0.000872915
MDV	Diesel	0	0	0	0	0.247195188	0	0	0.003600092	0	0
MDV	Electricity	0.004888026	0	0.016337788	0.040293746	0	0	0	0	0	0
MH	Gasoline	0.079565201	1.745910616	0.066512549	0.15383036	1.57225425	0	2.68520254	0.016549526	0	0.000253531
MH	Diesel	0	0	0	0	0.311855377	0	0	0.009279009	0	0
MHDT	Gasoline	0.059677313	0.278142573	0.026994308	0.040812601	1.090799305	10.49562653	3.688048533	0.016573858	0.005673753	0.000373311
MHDT	Diesel	0	0	0	0	0.383996056	2.056497557	0	0.009027747	0.007197541	0
OBUS	Gasoline	0.028078296	0.287027367	0.034814069	0.066030294	1.558122408	5.768988932	3.014259293	0.016575622	0.003772785	0.000258907
OBUS	Diesel	0	0	0	0	0.512406531	12.76919433	0	0.01115222	0.027798386	0
SBUS	Gasoline	0.088596938	0.536675159	0.02669313	0.052602867	2.264174976	81.93552533	7.14758838	0.008692749	0.025860244	0.000462378
SBUS	Diesel	0	0	0	0	0.419647789	4.427441381	0	0.011892878	0.035907188	0
UBUS	Gasoline	0.14932534	0.854433163	0.044694133	0.054840028	0.492521397	0	7.257331833	0.023071764	0	0.001001508
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0	0	0	0	34.25126673	0	0	0	0	0

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: Sub-Area
Region: Orange (SC)
Calendar Year: 2021
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX, RESTLOSS and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW
Orange (SC)	2021	HHDT	Aggregate	Aggregate	Gasoline	9.817535344	1000.457735	196.4292472	4.576598556	0	0.757419437	0.001234357	0	0.000769774	0.005000001	0.026460008
Orange (SC)	2021	HHDT	Aggregate	Aggregate	Diesel	10769.38522	1223413.181	107670.4954	3.886252558	61.11614316	2.057959313	0.049201741	0.088759363	0	0.008764124	0.025766523
Orange (SC)	2021	HHDT	Aggregate	Aggregate	Natural Gas	864.7854825	35199.86136	3372.663382	2.921680205	24.90672719	0	0.005136173	0.0549189	0	0.009000003	0.026460008
Orange (SC)	2021	LDA	Aggregate	Aggregate	Gasoline	1272194.252	49395344.62	6031793.312	0.037595598	0	0.195117752	0.001512751	0	0.00182068	0.002000001	0.015750005
Orange (SC)	2021	LDA	Aggregate	Aggregate	Diesel	11968.50216	478206.5743	56894.24355	0.068820409	0	0	0.007372266	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDA	Aggregate	Aggregate	Electricity	24402.3541	969374.2917	121670.9087	0	0	0	0	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Gasoline	138088.6679	5154285.362	639473.8437	0.098179387	0	0.269164642	0.002099477	0	0.002445021	0.002000001	0.015750005
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Diesel	52.53006429	1053.207272	175.5674352	1.02470457	0	0	0.161880566	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Electricity	736.4099521	29846.36824	3686.952909	0	0	0	0	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Gasoline	451361.7314	16989288.78	2116057.763	0.072018125	0	0.298947844	0.001490486	0	0.001696933	0.002000001	0.015750005
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Diesel	2682.916665	117528.5037	13243.22453	0.040815899	0	0	0.005064984	0	0	0.002000001	0.015750005
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Electricity	3387.284773	112687.7678	17148.89595	0	0	0	0	0	0	0.002000001	0.015750005
Orange (SC)	2021	LHDT1	Aggregate	Aggregate	Gasoline	36469.93186	1349254.713	543347.6444	0.185747668	0.039618653	0.53179145	0.001086009	0	0.00035893	0.002000001	0.032760009
Orange (SC)	2021	LHDT1	Aggregate	Aggregate	Diesel	22847.66428	943814.0687	287394.8743	1.671098505	2.140117373	0	0.015155475	0.02629406	0	0.003000001	0.032760009
Orange (SC)	2021	LHDT2	Aggregate	Aggregate	Gasoline	6432.280162	228273.1716	95831.39032	0.190495775	0.039913074	0.544026786	0.000954966	0	0.000297256	0.002000001	0.038220011
Orange (SC)	2021	LHDT2	Aggregate	Aggregate	Diesel	8869.193114	360087.5062	111563.2919	1.380067758	2.140147975	0	0.015185091	0.026789104	0	0.003000001	0.038220011
Orange (SC)	2021	MCY	Aggregate	Aggregate	Gasoline	57618.81526	414997.9139	115237.6305	1.093544501	0	0.265770576	0.001979605	0	0.00308058	0.001	0.005040001
Orange (SC)	2021	MDV	Aggregate	Aggregate	Gasoline	313061.5155	11280043.77	1450191.278	0.101126931	0	0.374440615	0.001570703	0	0.001872411	0.002000001	0.015750005
Orange (SC)	2021	MDV	Aggregate	Aggregate	Diesel	6526.199201	268374.8474	31964.49387	0.053593744	0	0	0.005074772	0	0	0.002000001	0.015750005
Orange (SC)	2021	MDV	Aggregate	Aggregate	Electricity	1390.884605	48350.43346	7141.914624	0	0	0	0	0	0	0.002000001	0.015750005
Orange (SC)	2021	MH	Aggregate	Aggregate	Gasoline	6951.392672	65646.83572	695.4173229	0.357885738	0	0.328389279	0.001224168	0	0.000323928	0.003000001	0.055860016
Orange (SC)	2021	MH	Aggregate	Aggregate	Diesel	2962.130067	28541.01333	296.2130067	3.836291874	0	0	0.09348843	0	0	0.004000001	0.055860016
Orange (SC)	2021	MHDT	Aggregate	Aggregate	Gasoline	7541.153449	404522.6567	150883.3982	0.300458667	0.08529102	0.332909102	0.000802519	0	0.000323891	0.003000001	0.055860016
Orange (SC)	2021	MHDT	Aggregate	Aggregate	Diesel	28151.45987	1820284.477	295512.1312	2.285342317	6.647038422	1.498570528	0.061840317	0.026735704	0	0.003000001	0.055860016
Orange (SC)	2021	OBUS	Aggregate	Aggregate	Gasoline	1004.319594	44567.4328	20094.42644	0.447148246	0.064999797	0.318878445	0.000773767	0	0.000233933	0.003000001	0.055860016
Orange (SC)	2021	OBUS	Aggregate	Aggregate	Diesel	626.2060636	46634.44185	6107.600707	3.11986707	21.68092467	1.578284475	0.066403116	0.099303119	0	0.003000001	0.055860016
Orange (SC)	2021	SBUS	Aggregate	Aggregate	Gasoline	502.9339776	21212.30254	2011.73591	0.636602082	0.923111492	0.556515134	0.001268218	0	0.000508738	0.002000001	0.319200087
Orange (SC)	2021	SBUS	Aggregate	Aggregate	Diesel	1306.944821	40864.66059	15081.96203	9.12177071	47.64944017	0.550854587	0.062413993	0.096381154	0	0.003000001	0.319200091
Orange (SC)	2021	UBUS	Aggregate	Aggregate	Gasoline	211.0170233	19935.56685	844.0680932	0.407983161	0	1.102593714	0.000438376	0	0.000164867	0.003000002	0.055860034
Orange (SC)	2021	UBUS	Aggregate	Aggregate	Diesel	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2021	UBUS	Aggregate	Aggregate	Natural Gas	742.5582597	86003.65359	2970.233039	4.882131277	0	0	0.006130469	0	0	0.008648113	0.028184288

Vehicle Category	Fuel	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX
HHDT	Gasoline	0.001342476	0	0.0008372	0.020000006	0.061740018	2004.669721	0	49.11315816	0.118414427	0	0.000465888	0.157703002	0	0.017106198
HHDT	Diesel	0.051426426	0.092772668	0	0.035056494	0.060121888	1462.057733	10612.50232	0	0.005088325	0.186844705	0	0.229815115	1.668137577	0
HHDT	Natural Gas	0.005368408	0.057402089	0	0.03600001	0.061740018	3428.362643	4067.886355	0	4.954457417	1.243245439	0	0.698894152	0.829265245	0
LDA	Gasoline	0.001645238	0	0.001980051	0.008000002	0.036750011	267.1373968	0	55.95314704	0.002677055	0	0.053747925	0.004394916	0	0.0267942
LDA	Diesel	0.007705607	0	0	0.008000002	0.036750011	209.5563373	0	0	0.000797487	0	0	0.032939338	0	0
LDA	Electricity	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0	0
LDT1	Gasoline	0.002283228	0	0.00265894	0.008000002	0.036750011	310.7066172	0	65.64753403	0.006129759	0	0.074766115	0.007708399	0	0.030053319
LDT1	Diesel	0.169200087	0	0	0.008000002	0.036750011	412.7288639	0	0	0.009949751	0	0	0.06487523	0	0
LDT1	Electricity	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0	0
LDT2	Gasoline	0.001621004	0	0.001845509	0.008000002	0.036750011	339.5224113	0	72.49113327	0.004025644	0	0.071415555	0.006311164	0	0.034118368
LDT2	Diesel	0.005294	0	0	0.008000002	0.036750011	288.7517709	0	0	0.0008416	0	0	0.045387757	0	0
LDT2	Electricity	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0	0
LHDT1	Gasoline	0.001181134	0	0.000390369	0.008000002	0.076440022	802.8927459	121.9799672	18.99427962	0.006118912	0.129289152	0.024974402	0.011786341	0.003376803	0.043418189
LHDT1	Diesel	0.015840738	0.027482961	0	0.012000003	0.076440022	474.4695752	134.4124528	0	0.003366186	0.005098128	0	0.07458001	0.021127766	0
LHDT2	Gasoline	0.001038613	0	0.000323293	0.008000002	0.089180026	923.430571	141.104104	21.68558133	0.004590164	0.130040133	0.025238394	0.012887435	0.003292611	0.04312758
LHDT2	Diesel	0.015871693	0.028000389	0	0.012000003	0.089180026	524.2094754	215.8445111	0	0.003059431	0.005098128	0	0.082398429	0.033927751	0
MCY	Gasoline	0.002116229	0	0.003268181	0.004000001	0.011760003	214.6996457	0	60.41943035	0.353437334	0	0.242117912	0.063879587	0	0.015319581
MDV	Gasoline	0.001707426	0	0.002035242	0.008000002	0.036750011	419.1075555	0	89.24307367	0.005638591	0	0.087787907	0.008156183	0	0.0376767
MDV	Diesel	0.005304231	0	0	0.008000002	0.036750011	380.8172267	0	0	0.000669874	0	0	0.059859165	0	0
MDV	Electricity	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0	0
MH	Gasoline	0.001331394	0	0.000352301	0.012000003	0.130340037	1672.289196	0	25.90597916	0.012358864	0	0.032182702	0.023012919	0	0.035860291
MH	Diesel	0.097715562	0	0	0.016000005	0.130340037	981.5322307	0	0	0.003360465	0	0	0.154283198	0	0
MHDT	Gasoline	0.000872812	0	0.000352261	0.012000003	0.130340037	1674.786231	517.4499287	38.09475474	0.00861953	0.294681887	0.035964639	0.016633198	0.007955102	0.029112534
MHDT	Diesel	0.064636462	0.027944574	0	0.012000003	0.130340037	955.5694731	739.725045	0	0.00492801	0.004951587	0	0.150202214	0.116274476	0
OBUS	Gasoline	0.000841542	0	0.000254423	0.012000003	0.130340037	1674.940477	381.2507744	26.48529806	0.012308701	0.199139705	0.030247757	0.022475839	0.005588658	0.026016565
OBUS	Diesel	0.06940557	0.103793165	0	0.012000003	0.130340037	1180.440876	2882.376775	0	0.006460956	0.059465958	0	0.185548867	0.45306949	0
SBUS	Gasoline	0.001379303	0	0.000553299	0.008000002	0.744800204	878.3243008	2613.251667	49.47205315	0.019311455	2.389285867	0.061482293	0.032295673	0.084572556	0.05004477
SBUS	Diesel	0.065236077	0.100739083	0	0.012000003	0.744800213	1258.838033	3448.874344	0	0.007277081	0.015414624	0	0.197871808	0.542115018	0
UBUS	Gasoline	0.000476774	0	0.000179308	0.012000007	0.130340079	2331.44782	0	103.1301463	0.006683011	0	0.154572684	0.031591711	0	0.085916988
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0.006407661	0	0	0.034592453	0.065763339	1978.142485	0	0	8.972063114	0	0	0.403257286	0	0

Vehicle Category	Fuel	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
HHDT	Gasoline	0.617567066	0	0.002436851	0.153003376	0.676344845	0.048696439	0.068651028	0.901152413	0	0.002668045	0.153003376	0.676344845	0.048696439	0.068651028	29.23263552	0	6.360903051	0.019837832	0	0.000486015
HHDT	Diesel	0.109550237	4.022715268	0	0	0	0	0	0.124714605	4.579555118	0	0	0	0	0	0.449660143	55.95474328	0	0.013812797	0.10026166	0
HHDT	Natural Gas	0.327051549	0.071935417	0	0	0	0	0	5.348367298	1.330545566	0	0	0	0	0	13.4212844	21.54939422	0	0	0	0
LDA	Gasoline	0.01022692	0	0.24101858	0.10648446	0.24107102	0.236145866	0.2438177	0.014918266	0	0.26388331	0.10648446	0.24107102	0.236145866	0.2438177	0.670934412	0	2.240594646	0.002643541	0	0.000553702
LDA	Diesel	0.017169429	0	0	0	0	0	0	0.019546253	0	0	0	0	0	0	0.249677443	0	0	0.001981061	0	0
LDA	Electricity	0	0	0	0.004888026	0	0.005776742	0.017098082	0	0	0	0.004888026	0	0.005776742	0.017098082	0	0	0	0	0	0
LDT1	Gasoline	0.026770921	0	0.3729626	0.218803517	0.784169455	0.49548623	0.58767684	0.039030377	0	0.408344158	0.218803517	0.784169455	0.49548623	0.58767684	1.228015067	0	2.408379673	0.003074694	0	0.000649636
LDT1	Diesel	0.214212283	0	0	0	0	0	0	0.243866442	0	0	0	0	0	0	1.162528849	0	0	0.003901772	0	0
LDT1	Electricity	0	0	0	0.004888026	0	0.005776742	0.017098082	0	0	0	0.004888026	0	0.005776742	0.017098082	0	0	0	0	0	0
LDT2	Gasoline	0.016054784	0	0.329795409	0.133370489	0.465385755	0.358017093	0.330114333	0.023417974	0	0.361083666	0.133370489	0.465385755	0.358017093	0.330114333	0.892571371	0	2.809964486	0.003359849	0	0.000717359
LDT2	Diesel	0.018119162	0	0	0	0	0	0	0.020627462	0	0	0	0	0	0	0.153377826	0	0	0.002729743	0	0
LDT2	Electricity	0	0	0	0.004888026	0	0.005776742	0.017098082	0	0	0	0.004888026	0	0.005776742	0.017098082	0	0	0	0	0	0
LHDT1	Gasoline	0.028575488	0.454025953	0.12140908	0.125265473	0.771962704	0.032932272	0.053789134	0.04169785	0.662513605	0.132927661	0.125265473	0.771962704	0.032932272	0.053789134	0.692115034	3.755637931	1.670847521	0.007945275	0.001207091	0.000187964
LHDT1	Diesel	0.072472007	0.109759705	0	0	0	0	0	0.082504562	0.124954127	0	0	0	0	0	0.395768827	0.909745076	0	0.004485444	0.001270681	0
LHDT2	Gasoline	0.019639743	0.457674185	0.122532641	0.119940346	0.716343191	0.030080464	0.048414385	0.028658267	0.667837097	0.134157819	0.119940346	0.716343191	0.030080464	0.048414385	0.499750522	3.761669113	1.654368503	0.009138094	0.001396339	0.000214596
LHDT2	Diesel	0.065867748	0.109759705	0	0	0	0	0	0.074986052	0.124954127	0	0	0	0	0	0.350329528	0.909745076	0	0.004955665	0.002040507	0
MCY	Gasoline	2.414359951	0	1.856547882	0.917545024	2.375712328	1.529202115	2.566934376	2.982967942	0	2.020333828	0.917545024	2.375712328	1.529202115	2.566934376	19.00506783	0	8.547779391	0.002124627	0	0.000597899
MDV	Gasoline	0.024595234	0	0.431032264	0.153393159	0.499340292	0.428138192	0.37620023	0.034872731	0	0.471891784	0.153393159	0.499340292	0.428138192	0.37620023	1.10711052	0	3.299073081	0.004147409	0	0.000883133
MDV	Diesel	0.014422	0	0	0	0	0	0	0.016418489	0	0	0	0	0	0	0.247195188	0	0	0.003600092	0	0
MDV	Electricity	0	0	0	0.004888026	0	0.005776742	0.017098082	0	0	0	0.004888026	0	0.005776742	0.017098082	0	0	0	0	0	0
MH	Gasoline	0.053187899	0	0.131254862	0.094990072	1.892337846	0.050865606	0.125906387	0.077611658	0	0.143707553	0.094990072	1.892337846	0.050865606	0.125906387	1.522357684	0	2.85291956	0.016548657	0	0.000256361
MH	Diesel	0.072348834	0	0	0	0	0	0	0.082364337	0	0	0	0	0	0	0.311855377	0	0	0.009279009	0	0
MHDT	Gasoline	0.04042952	1.094412793	0.183212923	0.062812894	0.318540723	0.019603972	0.029508359	0.05899466	1.596964578	0.200595089	0.062812894	0.318540723	0.019603972	0.029508359	1.062617886	19.94688341	3.904358672	0.016573367	0.005120587	0.000376978
MHDT	Diesel	0.106098708	0.106606301	0	0	0	0	0	0.120785303	0.121363159	0	0	0	0	0	0.383996056	2.543928682	0	0.009027747	0.006988555	0
OBUS	Gasoline	0.059032868	0.7453241	0.156196106	0.029376805	0.31531273	0.025613753	0.049739958	0.086140623	1.087575177	0.171015075	0.029376805	0.31531273	0.025613753	0.049739958	1.516557742	5.768988932	3.202353612	0.016574894	0.003772785	0.000262093
OBUS	Diesel	0.139102619	1.280285777	0	0	0	0	0	0.158357743	1.4575079	0	0	0	0	0	0.512406531	15.28108662	0	0.01115222	0.027231267	0
SBUS	Gasoline	0.096799823	10.59105139	0.361064519	0.095534581	0.724942892	0.019314768	0.039863117	0.141250075	15.45443732	0.3953202	0.095534581	0.724942892	0.019314768	0.039863117	2.206397014	81.93552533	8.793272408	0.008691731	0.025860244	0.000489566
SBUS	Diesel	0.156673548	0.331872623	0	0	0	0	0	0.178360909	0.377811719	0	0	0	0	0	0.419647789	5.895810151	0	0.011892878	0.032583255	0
UBUS	Gasoline	0.022582751	0	0.671483868	0.154713507	1.154723038	0.031715705	0.03827906	0.032952698	0	0.735190315	0.154713507	1.154723038	0.031715705	0.03827906	0.48137939	0	8.35345393	0.023071566	0	0.001020556
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0.128193079	0	0	0	0	0	0	9.156648486	0	0	0	0	0	0	34.25126673	0	0	0	0	0

EMFAC2017 Derived CalEEMod Annual Emission Rates: Year 2024[1,2]

Season	Pollutant	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
Annual	CH4_IDLEX	0	0	0	0	0.0051794	0.003711617	0.004604449	0.029583575	0.0086549	0	0	0.0859343	0
Annual	CH4_RUNEX	0.0018161	0.0041472	0.002981	0.0037207	0.0036571	0.002856565	0.001218983	0.14593139	0.0043817	0.0012913	0.3474174	0.0091574	0.0069351
Annual	CH4_STREX	0.0405883	0.0562346	0.0560526	0.0656744	0.0128844	0.009045488	0.010941558	7.24644E-07	0.0215233	0.0248517	0.2342184	0.0082302	0.0206319
Annual	CO_IDLEX	0	0	0	0	0.1832039	0.148683221	0.380265207	6.07383407	0.558015	0	0	3.339181	0
Annual	CO_RUNEX	0.5490508	0.9309465	0.7399746	0.8253101	0.4152353	0.312628766	0.167446192	0.643481547	0.5423233	0.0650294	18.156707	0.83551	0.7275493
Annual	CO_STREX	1.9257603	2.0956751	2.4459836	2.6984998	0.9596009	0.647629061	1.133930597	0.010098092	2.2569825	1.8117994	8.4980561	1.1162754	1.7515244
Annual	CO2_NBIO_IDLEX	0	0	0	0	8.8738413	13.45707094	52.64249846	1012.557005	78.181032	0	0	359.37366	0
Annual	CO2_NBIO_RUNEX	246.34953	293.90688	312.70607	387.65532	633.58173	642.3950474	993.2669111	1373.651772	1334.3301	385.94944	214.64231	1076.0623	1403.5064
Annual	CO2_NBIO_STREX	50.400165	61.090539	65.441412	79.610924	11.392286	8.944431846	11.92247774	0.077488632	19.405467	20.355859	59.143796	6.6553087	16.907635
Annual	NOX_IDLEX	0	0	0	0	0.0570844	0.084344237	0.245538424	5.26134621	0.2951177	0	0	3.465321	0
Annual	NOX_RUNEX	0.0267777	0.0676952	0.0509157	0.0659699	0.5838729	0.660258602	0.957563543	2.424212909	0.9803358	0.0472235	1.1164075	5.0933284	1.2661247
Annual	NOX_STREX[3]	0.1536693	0.2109582	0.2242368	0.2724634	0.2953565	0.209362684	1.550087922	2.475992843	0.7533751	0.1796417	0.2630615	0.7487952	0.226346
Annual	PM10_IDLEX	0	0	0	0	0.0008384	0.001280157	0.000174948	0.002953978	9.93E-05	0	0	0.0044776	0
Annual	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060135978	0.13034	0.0245273	0.01176	0.7448002	0.13034
Annual	PM10_PMTW	0.008	0.008	0.008	0.008	0.0098001	0.010583582	0.012000003	0.035049658	0.012	0.0022582	0.004	0.0104748	0.0132356
Annual	PM10_RUNEX	0.0014317	0.0018512	0.0014663	0.0015464	0.0063814	0.009604047	0.006047813	0.017931995	0.0065545	0.0003603	0.0022317	0.0313098	0.0267964
Annual	PM10_STREX	0.0016847	0.0021801	0.0016633	0.0017228	0.0002218	0.000128003	0.000110935	1.09017E-06	0.0002023	0.0001705	0.0029927	7.712E-05	0.0002165
Annual	PM25_IDLEX	0	0	0	0	0.0008021	0.001224778	0.00016738	0.00282619	9.5E-05	0	0	0.0042839	0
Annual	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025772562	0.05586	0.0105117	0.00504	0.3192001	0.05586
Annual	PM25_PMTW	0.002	0.002	0.002	0.002	0.00245	0.002645896	0.003000001	0.008762414	0.003	0.0005645	0.001	0.0026187	0.0033089
Annual	PM25_RUNEX	0.0013182	0.001703	0.0013496	0.0014259	0.0060816	0.009174932	0.005780834	0.017156222	0.0062545	0.0003313	0.0020841	0.0299374	0.0256058
Annual	PM25_STREX	0.001549	0.0020045	0.0015293	0.0015841	0.000204	0.000117694	0.000102	1.00237E-06	0.000186	0.0001567	0.0028105	7.09E-05	0.000199
Annual	ROG_DIURN	0.0401307	0.0968563	0.0659123	0.0762631	0.0018824	0.001205879	0.000468548	3.67101E-06	0.0017513	0.0011457	1.1461127	0.0011512	0.6194315
Annual	ROG_HTSK	0.0798613	0.1560489	0.1083631	0.1258503	0.0614712	0.041722743	0.019791746	0.000156022	0.0208698	0.0120904	0.6786807	0.0108187	0.0443599
Annual	ROG_IDLEX	0	0	0	0	0.0207335	0.017124893	0.02019854	0.40436447	0.0495767	0	0	0.3967175	0
Annual	ROG_RESTL	0.0398181	0.0869564	0.071458	0.0860035	0.0012383	0.000822543	0.000341218	2.63531E-06	0.00095	0.0007383	0.7049007	0.0006612	0.2840996
Annual	ROG_RUNEX	0.006589	0.01754	0.0115892	0.0150009	0.0383046	0.041535127	0.010329661	0.025140143	0.0251805	0.0042705	2.3503193	0.1081841	0.0450893
Annual	ROG_RUNLS	0.0232117	0.0697733	0.0477522	0.0523047	0.1482077	0.087701849	0.019622799	6.27846E-05	0.0649612	0.0027282	0.5344805	0.0166456	0.0101341
Annual	ROG_STREX	0.1740823	0.268504	0.2507788	0.3106548	0.0620754	0.043499508	0.054818777	3.79369E-06	0.1102001	0.1062956	1.7897045	0.0481005	0.0806662
Annual	SO2_IDLEX	0	0	0	0	8.606E-05	0.000128948	0.00050126	0.009246173	0.0007449	0	0	0.0034356	0
Annual	SO2_RUNEX	0.0023879	0.0028494	0.0030312	0.0037561	0.0061793	0.006213596	0.009499709	0.012002743	0.0129407	0.0038193	0.0021241	0.010312	0.0137591
Annual	SO2_STREX	0.0004886	0.0005923	0.0006345	0.0007718	0.0001127	8.85124E-05	0.000117983	7.66813E-07	0.000192	0.0002014	0.0005853	6.586E-05	0.0001673
Annual	TOG_DIURN	0.0401307	0.0968563	0.0659123	0.0762631	0.0018824	0.001205879	0.000468548	3.67101E-06	0.0017513	0.0011457	1.1461127	0.0011512	0.6194315
Annual	TOG_HTSK	0.0798613	0.1560489	0.1083631	0.1258503	0.0614712	0.041722743	0.019791746	0.000156022	0.0208698	0.0120904	0.6786807	0.0108187	0.0443599
Annual	TOG_IDLEX	0	0	0	0	0.0291769	0.0233728	0.028256281	0.471207149	0.0655891	0	0	0.5722361	0
Annual	TOG_RESTL	0.0398181	0.0869564	0.071458	0.0860035	0.0012383	0.000822543	0.000341218	2.63531E-06	0.00095	0.0007383	0.7049007	0.0006612	0.2840996
Annual	TOG_RUNEX	0.0095744	0.0255833	0.0168653	0.0217782	0.04706	0.048791781	0.013124501	0.174411278	0.0349038	0.0062315	2.9262901	0.1317719	0.0590487
Annual	TOG_RUNLS	0.0232117	0.0697733	0.0477522	0.0523047	0.1482077	0.087701849	0.019622799	6.27846E-05	0.0649612	0.0027282	0.5344805	0.0166456	0.0101341
Annual	TOG_STREX	0.1905982	0.2939779	0.2745711	0.3401272	0.0679647	0.047626486	0.060019661	4.15361E-06	0.1206552	0.1163803	1.9482705	0.052664	0.0883193
Summer	CH4_IDLEX	0	0	0	0	0.00519	0.003719241	0.004367492	0.031070346	0.0087318	0	0	0.0859807	0
Summer	CH4_RUNEX	0.001935	0.0043889	0.0031673	0.0039512	0.0037121	0.002880272	0.001240805	0.145932809	0.0044741	0.0013189	0.3415554	0.0092665	0.0070675
Summer	CH4_STREX	0.03688	0.0508788	0.050882	0.0595917	0.0124785	0.008761331	0.010582394	6.96013E-07	0.020755	0.0231775	0.2110523	0.0073961	0.019811
Summer	CO_IDLEX	0	0	0	0	0.1832039	0.148683221	0.313606302	5.984583234	0.5536254	0	0	3.3010861	0

Summer	CO_RUNEX	0.5988611	1.0076377	0.8043094	0.896093	0.420869	0.314928439	0.169621565	0.643994424	0.5523312	0.0662382	17.498764	0.847795	0.7430796
Summer	CO_STREX	1.6624362	1.806421	2.1089145	2.3242763	0.9210346	0.621668494	1.080708883	0.009624135	2.1418843	1.6059776	7.7781339	0.9220747	1.6619339
Summer	CO2_NBIO_IDLEX	0	0	0	0	8.8738413	13.45707094	52.57676065	1001.485806	77.318048	0	0	368.53942	0
Summer	CO2_NBIO_RUNEX	256.41061	304.24008	322.65371	397.98713	633.59181	642.3990949	993.2707438	1373.65262	1334.3479	385.95171	213.41139	1076.0842	1403.5339
Summer	CO2_NBIO_STREX	49.916869	60.530454	64.812753	78.901812	11.324084	8.898329582	11.83131798	0.076736905	19.209089	20.00473	57.378889	6.3310523	16.755404
Summer	NOX_IDLEX	0	0	0	0	0.0570844	0.084344237	0.237262712	5.036742708	0.2804631	0	0	3.5507892	0
Summer	NOX_RUNEX	0.0236957	0.0595773	0.0449321	0.058264	0.5502516	0.624008116	0.904423312	2.296151998	0.9183507	0.0418102	0.9815411	4.8080403	1.1866097
Summer	NOX_STREX[3]	0.1429048	0.1962177	0.2085389	0.2533835	0.2836354	0.201054365	1.545773536	2.475964683	0.7437098	0.172237	0.2501709	0.7450354	0.2169543
Summer	PM10_IDLEX	0	0	0	0	0.0008384	0.001280157	0.000149744	0.002569997	8.823E-05	0	0	0.0037807	0
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060135978	0.13034	0.0245273	0.01176	0.7448002	0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0098001	0.010583582	0.012000003	0.035049658	0.012	0.0022582	0.004	0.0104748	0.0132356
Summer	PM10_RUNEX	0.0014317	0.0018512	0.0014663	0.0015464	0.0063814	0.009604047	0.006047813	0.017931995	0.0065545	0.0003603	0.0022317	0.0313098	0.0267964
Summer	PM10_STREX	0.0016847	0.0021801	0.0016633	0.0017228	0.0002218	0.000128003	0.000110935	1.09017E-06	0.0002023	0.0001705	0.0029927	7.712E-05	0.0002165
Summer	PM25_IDLEX	0	0	0	0	0.0008021	0.001224778	0.000143266	0.00245882	8.442E-05	0	0	0.0036171	0
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025772562	0.05586	0.0105117	0.00504	0.3192001	0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.00245	0.002645896	0.003000001	0.008762414	0.003	0.0005645	0.001	0.0026187	0.0033089
Summer	PM25_RUNEX	0.0013182	0.001703	0.0013496	0.0014259	0.0060816	0.009174932	0.005780834	0.017156222	0.0062545	0.0003313	0.0020841	0.0299374	0.0256058
Summer	PM25_STREX	0.001549	0.0020045	0.0015293	0.0015841	0.000204	0.000117694	0.000102	1.00237E-06	0.000186	0.0001567	0.0028105	7.09E-05	0.000199
Summer	ROG_DIURN	0.0589683	0.1418818	0.0967391	0.111904	0.0026308	0.001688748	0.000660997	5.36173E-06	0.0023945	0.001581	1.7225126	0.0015802	0.8337813
Summer	ROG_HTSK	0.0815719	0.1602582	0.1107361	0.1284177	0.0623066	0.042565761	0.020220218	0.00015842	0.0211417	0.0124813	0.7238885	0.0109233	0.0445636
Summer	ROG_IDLEX	0	0	0	0	0.0207335	0.017124893	0.019406192	0.427652017	0.0508393	0	0	0.3963739	0
Summer	ROG_RESTL	0.0544238	0.1189259	0.0966901	0.1162807	0.001673	0.001113463	0.000464143	3.85275E-06	0.0012838	0.0010195	1.1072151	0.0008951	0.38076
Summer	ROG_RUNEX	0.0069574	0.0184463	0.0122167	0.0157941	0.0385695	0.041628418	0.010418837	0.025148123	0.0256172	0.0043522	2.2982851	0.108742	0.0457445
Summer	ROG_RUNLS	0.0217364	0.0643693	0.0442398	0.0486395	0.1430572	0.084445165	0.018816047	6.14856E-05	0.0631789	0.0024623	0.4988228	0.0149828	0.0098866
Summer	ROG_STREX	0.1568033	0.2409918	0.2257343	0.2795896	0.0599686	0.042023952	0.05279311	3.6535E-06	0.1060477	0.0988817	1.6020976	0.0432045	0.0776203
Summer	SO2_IDLEX	0	0	0	0	8.606E-05	0.000128948	0.000500804	0.009142083	0.0007368	0	0	0.0035222	0
Summer	SO2_RUNEX	0.0024854	0.0029496	0.0031277	0.0038563	0.0061794	0.006213636	0.009499747	0.012002751	0.0129409	0.0038193	0.0021119	0.0103122	0.0137594
Summer	SO2_STREX	0.000484	0.0005869	0.0006284	0.000765	0.0001121	8.80562E-05	0.00011708	7.59374E-07	0.0001901	0.000198	0.0005678	6.265E-05	0.0001658
Summer	TOG_DIURN	0.0589683	0.1418818	0.0967391	0.111904	0.0026308	0.001688748	0.000660997	5.36173E-06	0.0023945	0.001581	1.7225126	0.0015802	0.8337813
Summer	TOG_HTSK	0.0815719	0.1602582	0.1107361	0.1284177	0.0623066	0.042565761	0.020220218	0.00015842	0.0211417	0.0124813	0.7238885	0.0109233	0.0445636
Summer	TOG_IDLEX	0	0	0	0	0.0291769	0.0233728	0.027038566	0.498124582	0.0670265	0	0	0.5718449	0
Summer	TOG_RESTL	0.0544238	0.1189259	0.0966901	0.1162807	0.001673	0.001113463	0.000464143	3.85275E-06	0.0012838	0.0010195	1.1072151	0.0008951	0.38076
Summer	TOG_RUNEX	0.0101119	0.0269058	0.017781	0.0229356	0.0474466	0.048927912	0.013254626	0.174422923	0.0355411	0.0063508	2.8630386	0.1325859	0.0600048
Summer	TOG_RUNLS	0.0217364	0.0643693	0.0442398	0.0486395	0.1430572	0.084445165	0.018816047	6.14856E-05	0.0631789	0.0024623	0.4988228	0.0149828	0.0098866
Summer	TOG_STREX	0.1716798	0.2638555	0.2471506	0.3061149	0.0656581	0.046010937	0.057801811	4.00012E-06	0.1161088	0.1082631	1.7441018	0.0473035	0.0849845

Winter	CH4_IDLEX	0	0	0	0	0.0051774	0.003710162	0.004947236	0.017267061	0.0085703	0	0	0.0859507	0
Winter	CH4_RUNEX	0.0017787	0.0040701	0.0029223	0.0036475	0.0036424	0.002850271	0.001211457	0.0008883	0.0043547	0.0012849	0.3485462	0.0091267	0.0068954
Winter	CH4_STREX	0.0413908	0.0573943	0.057171	0.0669892	0.0129679	0.009103904	0.011000661	7.31445E-07	0.0216926	0.0252036	0.2387814	0.0083498	0.0208158
Winter	CO_IDLEX	0	0	0	0	0.1832039	0.148683221	0.47353601	6.006958421	0.5640769	0	0	3.3917882	0
Winter	CO_RUNEX	0.5304426	0.9020821	0.7158835	0.7987249	0.41374	0.31200965	0.166796983	0.206874225	0.5393474	0.0647397	18.253485	0.8319742	0.7229615
Winter	CO_STREX	1.9834517	2.1590617	2.5199497	2.7806525	0.9654654	0.651612956	1.144112353	0.010188816	2.2755183	1.8485389	8.6197711	1.1343762	1.7656784
Winter	CO2_NBIO_IDLEX	0	0	0	0	8.8738413	13.45707094	52.72627943	993.9043734	79.372773	0	0	346.71619	0
Winter	CO2_NBIO_RUNEX	242.63743	290.09391	309.03566	383.843	633.57905	642.3939564	993.2657668	1270.383634	1334.3249	385.9489	214.83212	1076.056	1403.4983
Winter	CO2_NBIO_STREX	50.505813	61.212827	65.578973	79.766067	11.403031	8.951761912	11.94019269	0.077632547	19.4379	20.419323	59.46017	6.6863449	16.932289
Winter	NOX_IDLEX	0	0	0	0	0.0570844	0.084344237	0.256965807	5.372731512	0.3153551	0	0	3.3472935	0
Winter	NOX_RUNEX	0.0259549	0.0657129	0.0493825	0.0639863	0.5735963	0.64869795	0.939533208	2.319660366	0.9619237	0.0460059	1.0894864	5.0049231	1.2416364
Winter	NOX_STREX[3]	0.1561344	0.2143458	0.2278327	0.2768381	0.2982976	0.211447609	1.551184199	2.475999999	0.7558725	0.1813108	0.2661212	0.7497651	0.2287726
Winter	PM10_IDLEX	0	0	0	0	0.0008384	0.001280157	0.000209754	0.003144255	0.0001146	0	0	0.0054399	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.058192217	0.13034	0.0245273	0.01176	0.7448002	0.13034
Winter	PM10_PMTW	0.008	0.008	0.008	0.008	0.0098001	0.010583582	0.012000003	0.03391627	0.012	0.0022582	0.004	0.0104748	0.0132356
Winter	PM10_RUNEX	0.0014317	0.0018512	0.0014663	0.0015464	0.0063814	0.009604047	0.006047813	0.017790635	0.0065545	0.0003603	0.0022317	0.0313098	0.0267964
Winter	PM10_STREX	0.0016847	0.0021801	0.0016633	0.0017228	0.0002218	0.000128003	0.000110935	1.09017E-06	0.0002023	0.0001705	0.0029927	7.712E-05	0.0002165
Winter	PM25_IDLEX	0	0	0	0	0.0008021	0.001224778	0.00020068	0.003008236	0.0001096	0	0	0.0052046	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.024939522	0.05586	0.0105117	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.00245	0.002645896	0.003000001	0.008479067	0.003	0.0005645	0.001	0.0026187	0.0033089
Winter	PM25_RUNEX	0.0013182	0.001703	0.0013496	0.0014259	0.0060816	0.009174932	0.005780834	0.017020977	0.0062545	0.0003313	0.0020841	0.0299374	0.0256058
Winter	PM25_STREX	0.001549	0.0020045	0.0015293	0.0015841	0.000204	0.000117694	0.000102	1.00237E-06	0.000186	0.0001567	0.0028105	7.09E-05	0.000199
Winter	ROG_DIURN	0.0394131	0.0975316	0.0630684	0.0722266	0.001932	0.001211491	0.000461971	3.786E-06	0.0017725	0.0011578	1.2722079	0.0011236	0.6640845
Winter	ROG_HTSK	0.0854976	0.1724701	0.1156786	0.1332774	0.0689649	0.045701476	0.021006651	0.00017191	0.0219507	0.0131717	0.8685215	0.0112129	0.0515594
Winter	ROG_IDLEX	0	0	0	0	0.0207335	0.017124893	0.02131148	0.37175508	0.0478331	0	0	0.3971921	0
Winter	ROG_RESTL	0.0397113	0.0867574	0.0710566	0.0855872	0.0012475	0.000813508	0.000338203	2.73135E-06	0.0009439	0.0007163	0.7419365	0.0006421	0.2870341
Winter	ROG_RUNEX	0.0064651	0.0172315	0.0113778	0.0147296	0.0382323	0.041509697	0.01030293	0.017840607	0.0250496	0.004251	2.3604327	0.1080231	0.0448925
Winter	ROG_RUNLS	0.0265988	0.0823365	0.0558992	0.0608212	0.1607463	0.095716408	0.021601249	6.71573E-05	0.0694984	0.0033316	0.6168803	0.0202969	0.0107274
Winter	ROG_STREX	0.177799	0.2744024	0.25616	0.3173205	0.0625072	0.043801988	0.055288334	3.82618E-06	0.1111097	0.1078536	1.826829	0.0487991	0.0813272
Winter	SO2_IDLEX	0	0	0	0	8.606E-05	0.000128948	0.000501821	0.009389916	0.0007562	0	0	0.003316	0
Winter	SO2_RUNEX	0.0023519	0.0028125	0.0029956	0.0037191	0.0061793	0.006213585	0.009499698	0.01200274	0.0129406	0.0038193	0.0021259	0.0103119	0.013759
Winter	SO2_STREX	0.0004897	0.0005935	0.0006358	0.0007733	0.0001128	8.85849E-05	0.000118158	7.68237E-07	0.0001924	0.0002021	0.0005884	6.617E-05	0.0001676
Winter	TOG_DIURN	0.0394131	0.0975316	0.0630684	0.0722266	0.001932	0.001211491	0.000461971	3.786E-06	0.0017725	0.0011578	1.2722079	0.0011236	0.6640845
Winter	TOG_HTSK	0.0854976	0.1724701	0.1156786	0.1332774	0.0689649	0.045701476	0.021006651	0.00017191	0.0219507	0.0131717	0.8685215	0.0112129	0.0515594
Winter	TOG_IDLEX	0	0	0	0	0.0291769	0.0233728	0.029965242	0.42321486	0.0636041	0	0	0.5727764	0
Winter	TOG_RESTL	0.0397113	0.0867574	0.0710566	0.0855872	0.0012475	0.000813508	0.000338203	2.73135E-06	0.0009439	0.0007163	0.7419365	0.0006421	0.2870341
Winter	TOG_RUNEX	0.0093936	0.0251331	0.0165568	0.0213825	0.0469546	0.048754673	0.013085495	0.020428108	0.0347128	0.006203	2.9385389	0.1315369	0.0587615
Winter	TOG_RUNLS	0.0265988	0.0823365	0.0558992	0.0608212	0.1607463	0.095716408	0.021601249	6.71573E-05	0.0694984	0.0033316	0.6168803	0.0202969	0.0107274
Winter	TOG_STREX	0.1946675	0.3004358	0.2804629	0.3474253	0.0684375	0.047957664	0.060533767	4.18919E-06	0.1216511	0.1180861	1.9886745	0.0534288	0.089043

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

2 Unless otherwise noted, per CalEEMod methodology, the calculated CalEEMod emission rates are derived from the emission rates obtained from EMFAC2017 Version 1.0.3.

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

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: Sub-Area
Region: Orange (SC)
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX, RESTLOSS and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX
Orange (SC)	2024	HHDT	Aggregate	Aggregate	Gasoline	10.12464296	1269.902073	202.5738563	3.346656414	0	0.390052624	0.001131733	0	0.0005924
Orange (SC)	2024	HHDT	Aggregate	Aggregate	Diesel	11429.28565	1306102.563	115449.2372	2.435240255	53.0973815	2.566922106	0.017590254	0.026775867	0
Orange (SC)	2024	HHDT	Aggregate	Aggregate	Natural Gas	1043.368776	42497.96197	4069.138227	2.0577422	22.07102905	0	0.004295805	0.030981533	0
Orange (SC)	2024	LDA	Aggregate	Aggregate	Gasoline	1337490.995	50207250.91	6343722.318	0.027455395	0	0.159690567	0.001319401	0	0.001603489
Orange (SC)	2024	LDA	Aggregate	Aggregate	Diesel	14052.74116	540279.7011	66848.46524	0.040669216	0	0	0.004515342	0	0
Orange (SC)	2024	LDA	Aggregate	Aggregate	Electricity	38213.64694	1612689.314	189628.5946	0	0	0	0	0	0
Orange (SC)	2024	LDT1	Aggregate	Aggregate	Gasoline	149731.2088	5404033.518	694761.265	0.068446725	0	0.213394867	0.00169818	0	0.002019825
Orange (SC)	2024	LDT1	Aggregate	Aggregate	Diesel	44.08303123	944.9735888	151.0016428	0.767813663	0	0	0.117039078	0	0
Orange (SC)	2024	LDT1	Aggregate	Aggregate	Electricity	1734.875988	76322.38505	8717.218595	0	0	0	0	0	0
Orange (SC)	2024	LDT2	Aggregate	Aggregate	Gasoline	462837.1411	16818805.72	2167762.981	0.05162106	0	0.22921109	0.001334726	0	0.001557175
Orange (SC)	2024	LDT2	Aggregate	Aggregate	Diesel	3391.132854	137673.4842	16547.13863	0.036253166	0	0	0.004425309	0	0
Orange (SC)	2024	LDT2	Aggregate	Aggregate	Electricity	6803.92639	213824.6052	34199.81692	0	0	0	0	0	0
Orange (SC)	2024	LHDT1	Aggregate	Aggregate	Gasoline	35500.27712	1269667.479	528901.2337	0.138944235	0.036704925	0.480206371	0.001064552	0	0.000331616
Orange (SC)	2024	LHDT1	Aggregate	Aggregate	Diesel	26315.39616	1038905.117	331014.5789	1.127629541	1.815845872	0	0.012213132	0.026210439	0
Orange (SC)	2024	LHDT2	Aggregate	Aggregate	Gasoline	6420.174666	219449.6556	95651.03647	0.145266851	0.03713422	0.495291471	0.000950724	0	0.000278429
Orange (SC)	2024	LHDT2	Aggregate	Aggregate	Diesel	10385.10939	400280.4391	130631.6116	0.942597561	1.814832031	0	0.01368377	0.026686871	0
Orange (SC)	2024	MCY	Aggregate	Aggregate	Gasoline	62471.01534	431035.3333	124942.0307	1.116407488	0	0.263061529	0.002084066	0	0.002810469
Orange (SC)	2024	MDV	Aggregate	Aggregate	Gasoline	313457.4392	10907785.12	1450691.697	0.06747844	0	0.283116979	0.001368458	0	0.001639613
Orange (SC)	2024	MDV	Aggregate	Aggregate	Diesel	7889.854795	304989.8796	38231.32539	0.037192789	0	0	0.003837538	0	0
Orange (SC)	2024	MDV	Aggregate	Aggregate	Electricity	3994.854671	129775.1768	20300.83382	0	0	0	0	0	0
Orange (SC)	2024	MH	Aggregate	Aggregate	Gasoline	6712.679833	63982.30387	671.5364905	0.261105658	0	0.331869299	0.00111993	0	0.000291811
Orange (SC)	2024	MH	Aggregate	Aggregate	Diesel	3130.727871	28597.15485	313.0727871	3.514720051	0	0	0.080389792	0	0
Orange (SC)	2024	MHDT	Aggregate	Aggregate	Gasoline	7456.463322	364690.4142	149188.9181	0.215333153	0.089902238	0.320652486	0.000835965	0	0.000314568
Orange (SC)	2024	MHDT	Aggregate	Aggregate	Diesel	29435.84207	1944223.33	310907.4133	1.096788448	3.815109993	2.140032499	0.006708375	0.002616229	0
Orange (SC)	2024	OBUS	Aggregate	Aggregate	Gasoline	1021.888238	43427.56638	20445.93986	0.329043378	0.06508263	0.304731132	0.000872688	0	0.000243338
Orange (SC)	2024	OBUS	Aggregate	Aggregate	Diesel	650.7090352	49907.5233	6300.321307	1.547064805	12.02809216	2.209324307	0.010937608	0.003904943	0
Orange (SC)	2024	SBUS	Aggregate	Aggregate	Gasoline	584.491221	23797.35365	2337.964884	0.531007187	0.925550215	0.560140918	0.001157461	0	0.00050104
Orange (SC)	2024	SBUS	Aggregate	Aggregate	Diesel	1229.046344	38613.77331	14183.02441	7.905049757	46.14110365	0.779893422	0.047674289	0.057584076	0
Orange (SC)	2024	UBUS	Aggregate	Aggregate	Gasoline	214.7743581	20290.53631	859.0974323	0.250949445	0	0.811791865	0.001760601	0	0.00070825
Orange (SC)	2024	UBUS	Aggregate	Aggregate	Diesel	0	0	0	0	0	0	0	0	0
Orange (SC)	2024	UBUS	Aggregate	Aggregate	Natural Gas	755.7801313	87535.02065	3023.120525	0.493404516	0	0	0.00319437	0	0

Vehicle Category	Fuel	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX
HHDT	Gasoline	0.005000001	0.026460008	0.001230863	0	0.000644289	0.020000006	0.061740018	1863.32703	0	45.79570527	0.082011144	0	0.000428264	0.132692205	0
HHDT	Diesel	0.008758342	0.025749525	0.018385607	0.027986553	0	0.035033368	0.060082226	1311.143125	10251.70188	0	0.000838769	0.196525147	0	0.206093441	1.611424772
HHDT	Natural Gas	0.009000003	0.026460008	0.004490042	0.03238238	0	0.03600001	0.061740018	3280.116469	3886.120426	0	4.607016296	1.241777241	0	0.6686732	0.792211071
LDA	Gasoline	0.002000001	0.015750005	0.001434969	0	0.001743941	0.008000002	0.036750011	249.6591802	0	51.37439613	0.001887833	0	0.04222928	0.003671844	0
LDA	Diesel	0.002000001	0.015750005	0.004719506	0	0	0.008000002	0.036750011	193.8735035	0	0	0.000566139	0	0	0.030474215	0
LDA	Electricity	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0
LDT1	Gasoline	0.002000001	0.015750005	0.001846908	0	0.002196714	0.008000002	0.036750011	291.9968552	0	60.61558089	0.004205218	0	0.056952362	0.005954214	0
LDT1	Diesel	0.002000001	0.015750005	0.122331066	0	0	0.008000002	0.036750011	388.8784126	0	0	0.007331375	0	0	0.061126271	0
LDT1	Electricity	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0
LDT2	Gasoline	0.002000001	0.015750005	0.001451632	0	0.001693562	0.008000002	0.036750011	310.6352728	0	65.61515099	0.003036713	0	0.057364792	0.005010088	0
LDT2	Diesel	0.002000001	0.015750005	0.004625402	0	0	0.008000002	0.036750011	265.8208852	0	0	0.000810021	0	0	0.041783341	0
LDT2	Electricity	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0
LHDT1	Gasoline	0.002000001	0.032760009	0.001157797	0	0.000360663	0.008000002	0.076440022	779.831712	119.0919282	18.52218622	0.0043237	0.121680355	0.020948177	0.009132892	0.003240492
LHDT1	Diesel	0.003000001	0.032760009	0.012765356	0.027395558	0	0.012000003	0.076440022	454.8466029	129.3144119	0	0.002842527	0.005098128	0	0.071495552	0.020326425
LHDT2	Gasoline	0.002000001	0.038220011	0.001033999	0	0.000302817	0.008000002	0.089180026	898.2173852	137.9369143	21.1599351	0.003234998	0.122571407	0.021399004	0.010180119	0.003165936
LHDT2	Diesel	0.003000001	0.038220011	0.014302489	0.027893532	0	0.012000003	0.089180026	502.143068	207.9441327	0	0.002649094	0.005098128	0	0.078929898	0.032685922
MCY	Gasoline	0.001	0.005040001	0.002231693	0	0.002992682	0.004000001	0.011760003	214.6423054	0	59.14379628	0.347417396	0	0.234218403	0.064797143	0
MDV	Gasoline	0.002000001	0.015750005	0.001488296	0	0.001783187	0.008000002	0.036750011	385.3372091	0	81.14337832	0.003853618	0	0.068324218	0.006143696	0
MDV	Diesel	0.002000001	0.015750005	0.004011055	0	0	0.008000002	0.036750011	350.2368937	0	0	0.000548855	0	0	0.055052362	0
MDV	Electricity	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011	0	0	0	0	0	0	0	0
MH	Gasoline	0.003000001	0.055860016	0.001218026	0	0.000317371	0.012000003	0.130340037	1606.289267	0	24.79003672	0.008621425	0	0.030250605	0.018836437	0
MH	Diesel	0.004000001	0.055860016	0.084024661	0	0	0.016000005	0.130340037	949.8069698	0	0	0.003162186	0	0	0.149296429	0
MHDT	Gasoline	0.003000001	0.055860016	0.000909188	0	0.000342121	0.012000003	0.130340037	1635.595415	539.539678	36.76873817	0.005931297	0.273237678	0.033743597	0.013240852	0.008434249
MHDT	Diesel	0.003000001	0.055860016	0.007011698	0.002734523	0	0.012000003	0.130340037	872.7812425	686.1554207	0	0.000335064	0.002755252	0	0.137189057	0.107854077
OBUS	Gasoline	0.003000001	0.055860016	0.000949128	0	0.000264652	0.012000003	0.130340037	1604.058228	369.5465091	25.38517083	0.008844756	0.2009348	0.028155607	0.017625716	0.005749465
OBUS	Diesel	0.003000001	0.055860016	0.011432158	0.004081507	0	0.012000003	0.130340037	1099.623342	2633.150894	0	0.000498136	0.040192295	0	0.172845476	0.413894652
SBUS	Gasoline	0.002000001	0.319200087	0.001258844	0	0.000544926	0.008000002	0.744800204	853.3655283	2547.197329	47.02905727	0.014108483	2.401753656	0.058157817	0.027892846	0.086229393
SBUS	Diesel	0.003000001	0.319200091	0.049829909	0.060187773	0	0.012000003	0.744800213	1213.308496	3619.386675	0	0.006106034	0.012949788	0	0.190715199	0.568917182
UBUS	Gasoline	0.003000002	0.055860034	0.001914814	0	0.000770287	0.012000007	0.130340079	2050.966665	0	91.98709813	0.006862044	0	0.112303381	0.021899995	0
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0.008648113	0.028184288	0.003338805	0	0	0.034592453	0.065763339	2031.509072	0	0	6.490731561	0	0	0.414136414	0

Vehicle Category	Fuel	N2O_STREX	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
HHDT	Gasoline	0.008856429	0.393353079	0	0.002242064	0.092208564	0.418371378	0.031161713	0.043408676	0.57397989	0	0.002454778	0.092208564	0.418371378	0.031161713	0.043408676	26.98674481	0	5.967962165	0.018439131	0	0.000453186
HHDT	Diesel	0	0.018058473	4.231132534	0	0	0	0	0	0.020558197	4.816822311	0	0	0	0	0	0.18772605	61.71647121	0	0.01238703	0.096852996	0
HHDT	Natural Gas	0	0.23178046	0.049911245	0	0	0	0	0	4.890884283	1.303977148	0	0	0	0	0	13.86317565	20.88427666	0	0	0	0
LDA	Gasoline	0.023444801	0.006733015	0	0.180921418	0.082861089	0.191394417	0.196072702	0.19717935	0.009824799	0	0.19808618	0.082861089	0.191394417	0.196072702	0.19717935	0.567723917	0	1.994841612	0.00247058	0	0.000508391
LDA	Diesel	0	0.012188642	0	0	0	0	0	0	0.013875958	0	0	0	0	0	0	0.220532161	0	0	0.001832802	0	0
LDA	Electricity	0	0	0	0	0.004888026	0	0.007848423	0.023069309	0	0	0	0.004888026	0	0.007848423	0.023069309	0	0	0	0	0	0
LDT1	Gasoline	0.026087526	0.017743687	0	0.271632503	0.157821663	0.549924547	0.408133957	0.454433709	0.02588922	0	0.297403193	0.157821663	0.549924547	0.408133957	0.454433709	0.939965409	0	2.113127391	0.002889546	0	0.00059984
LDT1	Diesel	0	0.157840193	0	0	0	0	0	0	0.179690566	0	0	0	0	0	0	0.892230988	0	0	0.003676299	0	0
LDT1	Electricity	0	0	0	0	0.004888026	0	0.007848423	0.023069309	0	0	0	0.004888026	0	0.007848423	0.023069309	0	0	0	0	0	0
LDT2	Gasoline	0.028619508	0.011675782	0	0.256367467	0.110712029	0.377854965	0.342061004	0.315282014	0.017036522	0	0.28069004	0.110712029	0.377854965	0.342061004	0.315282014	0.750821393	0	2.49227761	0.003073988	0	0.000649315
LDT2	Diesel	0	0.017439284	0	0	0	0	0	0	0.019853466	0	0	0	0	0	0	0.16057845	0	0	0.002512963	0	0
LDT2	Electricity	0	0	0	0	0.004888026	0	0.007848423	0.023069309	0	0	0	0.004888026	0	0.007848423	0.023069309	0	0	0	0	0	0
LHDT1	Gasoline	0.040062458	0.019572079	0.420862211	0.100925454	0.099943194	0.64690386	0.029994595	0.04559743	0.028559531	0.61412115	0.110500668	0.099943194	0.64690386	0.029994595	0.04559743	0.49052186	3.763340509	1.560170316	0.007717067	0.001178511	0.000183292
LHDT1	Diesel	0	0.061197927	0.109759705	0	0	0	0	0	0.069669771	0.124954127	0	0	0	0	0	0.323226002	0.909745076	0	0.004299936	0.001222486	0
LHDT2	Gasoline	0.039967148	0.013265929	0.426031963	0.102907237	0.098703925	0.568226724	0.028990982	0.042501888	0.019357612	0.62166484	0.112670471	0.098703925	0.568226724	0.028990982	0.042501888	0.34539102	3.768843079	1.532102781	0.008888589	0.001364998	0.000209395
LHDT2	Diesel	0	0.057033426	0.109759705	0	0	0	0	0	0.064928764	0.124954127	0	0	0	0	0	0.294667196	0.909745076	0	0.004747058	0.00196582	0
MCY	Gasoline	0.01506065	2.350319291	0	1.789704536	0.678680665	1.843894915	1.409801445	2.292225407	2.926290075	0	1.948270514	0.678680665	1.843894915	1.409801445	2.292225407	18.15670747	0	8.49805613	0.00212406	0	0.000585276
MDV	Gasoline	0.031328794	0.015251629	0	0.32283391	0.130728967	0.408547454	0.413572974	0.366528351	0.022245601	0	0.353461789	0.130728967	0.408547454	0.413572974	0.366528351	0.847938165	0	2.79507988	0.003813224	0	0.00080298
MDV	Diesel	0	0.011816517	0	0	0	0	0	0	0.013452319	0	0	0	0	0	0	0.233769757	0	0	0.003310998	0	0
MDV	Electricity	0	0	0	0	0.004888026	0	0.007848423	0.023069309	0	0	0	0.004888026	0	0.007848423	0.023069309	0	0	0	0	0	0
MH	Gasoline	0.03745493	0.034813457	0	0.118273012	0.065040652	1.397107359	0.041671453	0.090857601	0.050799714	0	0.12949406	0.065040652	1.397107359	0.041671453	0.090857601	0.927103473	0	2.568091547	0.015895534	0	0.000245318
MH	Diesel	0	0.06808001	0	0	0	0	0	0	0.077504565	0	0	0	0	0	0	0.281073629	0	0	0.008979092	0	0
MHDT	Gasoline	0.028626432	0.026940583	1.012161544	0.169060267	0.061037442	0.303691127	0.021054666	0.028911469	0.039311636	1.476943749	0.185099712	0.061037442	0.303691127	0.021054666	0.028911469	0.68849542	14.46205958	3.49702454	0.016185543	0.005339182	0.000363856
MHDT	Diesel	0	0.007213844	0.059319813	0	0	0	0	0	0.008212412	0.067531092	0	0	0	0	0	0.069709653	2.280308813	0	0.008245604	0.006482456	0
OBUS	Gasoline	0.025441966	0.041793247	0.746572763	0.144157739	0.027300744	0.296545687	0.024864671	0.04583852	0.060984608	1.089397224	0.157834579	0.027300744	0.296545687	0.024864671	0.04583852	1.037116198	5.776488301	2.952461118	0.015873457	0.003656962	0.000251207
OBUS	Diesel	0	0.010724729	0.865329093	0	0	0	0	0	0.012209287	0.985111303	0	0	0	0	0	0.111773946	13.86470805	0	0.010388696	0.024876704	0
SBUS	Gasoline	0.051063771	0.070414533	10.6271941	0.339897029	0.076448936	0.444347943	0.018689515	0.03254055	0.102748721	15.50717669	0.372144463	0.076448936	0.444347943	0.018689515	0.03254055	1.593737958	82.15389856	7.888045465	0.008444744	0.025206582	0.000465391
SBUS	Diesel	0	0.131461235	0.278805377	0	0	0	0	0	0.149658609	0.317398699	0	0	0	0	0	0.368220308	5.816168711	0	0.011462737	0.034194171	0
UBUS	Gasoline	0.072593087	0.022693785	0	0.480344459	0.054635996	0.342415162	0.013345975	0.017272334	0.033114718	0	0.525916721	0.054635996	0.342415162	0.013345975	0.017272334	0.345571439	0	8.187430198	0.020295978	0	0.000910287
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0	0.092739747	0	0	0	0	0	0	6.624267637	0	0	0	0	0	0	50.56920031	0	0	0	0	0

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: Sub-Area
Region: Orange (SC)
Calendar Year: 2024
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX, RESTLOSS and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX
Orange (SC)	2024	HHDT	Aggregate	Aggregate	Gasoline	10.12464296	1269.902073	202.5738563	2.945581216	0	0.373410147
Orange (SC)	2024	HHDT	Aggregate	Aggregate	Diesel	11429.28565	1306102.563	115449.2372	2.307044989	50.79346669	2.566922106
Orange (SC)	2024	HHDT	Aggregate	Aggregate	Natural Gas	1043.368776	42497.96197	4069.138227	1.941968543	21.5365641	0
Orange (SC)	2024	LDA	Aggregate	Aggregate	Gasoline	1337490.995	50207250.91	6343722.318	0.024268115	0	0.148504228
Orange (SC)	2024	LDA	Aggregate	Aggregate	Diesel	14052.74116	540279.7011	66848.46524	0.038520952	0	0
Orange (SC)	2024	LDA	Aggregate	Aggregate	Electricity	38213.64694	1612689.314	189628.5946	0	0	0
Orange (SC)	2024	LDT1	Aggregate	Aggregate	Gasoline	149731.2088	5404033.518	694761.265	0.060229669	0	0.198484094
Orange (SC)	2024	LDT1	Aggregate	Aggregate	Diesel	44.08303123	944.9735888	151.0016428	0.727278439	0	0
Orange (SC)	2024	LDT1	Aggregate	Aggregate	Electricity	1734.875988	76322.38505	8717.218595	0	0	0
Orange (SC)	2024	LDT2	Aggregate	Aggregate	Gasoline	462837.1411	16818805.72	2167762.981	0.045535402	0	0.213165011
Orange (SC)	2024	LDT2	Aggregate	Aggregate	Diesel	3391.132854	137673.4842	16547.13863	0.034337356	0	0
Orange (SC)	2024	LDT2	Aggregate	Aggregate	Electricity	6803.92639	213824.6052	34199.81692	0	0	0
Orange (SC)	2024	LHDT1	Aggregate	Aggregate	Gasoline	35500.27712	1269667.479	528901.2337	0.123939155	0.036704925	0.46114953
Orange (SC)	2024	LHDT1	Aggregate	Aggregate	Diesel	26315.39616	1038905.117	331014.5789	1.071256969	1.815845872	0
Orange (SC)	2024	LHDT2	Aggregate	Aggregate	Gasoline	6420.174666	219449.6556	95651.03647	0.128599225	0.03713422	0.475636394
Orange (SC)	2024	LHDT2	Aggregate	Aggregate	Diesel	10385.10939	400280.4391	130631.6116	0.895610972	1.814832031	0
Orange (SC)	2024	MCY	Aggregate	Aggregate	Gasoline	62471.01534	431035.3333	124942.0307	0.981541103	0	0.250170862
Orange (SC)	2024	MDV	Aggregate	Aggregate	Gasoline	313457.4392	10907785.12	1450691.697	0.059529902	0	0.263291049
Orange (SC)	2024	MDV	Aggregate	Aggregate	Diesel	7889.854795	304989.8796	38231.32539	0.03522795	0	0
Orange (SC)	2024	MDV	Aggregate	Aggregate	Electricity	3994.854671	129775.1768	20300.83382	0	0	0
Orange (SC)	2024	MH	Aggregate	Aggregate	Gasoline	6712.679833	63982.30387	671.5364905	0.229610798	0	0.318099252
Orange (SC)	2024	MH	Aggregate	Aggregate	Diesel	3130.727871	28597.15485	313.0727871	3.327766425	0	0
Orange (SC)	2024	MHDT	Aggregate	Aggregate	Gasoline	7456.463322	364690.4142	149188.9181	0.189628384	0.093077557	0.307346988
Orange (SC)	2024	MHDT	Aggregate	Aggregate	Diesel	29435.84207	1944223.33	310907.4133	1.038501971	3.684952303	2.140032499
Orange (SC)	2024	OBUS	Aggregate	Aggregate	Gasoline	1021.888238	43427.56638	20445.93986	0.289694539	0.06508263	0.292087549
Orange (SC)	2024	OBUS	Aggregate	Aggregate	Diesel	650.7090352	49907.5233	6300.321307	1.465382527	11.42573878	2.209324307
Orange (SC)	2024	SBUS	Aggregate	Aggregate	Gasoline	584.491221	23797.35365	2337.964884	0.468002648	0.925550215	0.533572565
Orange (SC)	2024	SBUS	Aggregate	Aggregate	Diesel	1229.046344	38613.77331	14183.02441	7.482770192	47.28997756	0.779893422
Orange (SC)	2024	UBUS	Aggregate	Aggregate	Gasoline	214.7743581	20290.53631	859.0974323	0.222182653	0	0.778330155
Orange (SC)	2024	UBUS	Aggregate	Aggregate	Diesel	0	0	0	0	0	0
Orange (SC)	2024	UBUS	Aggregate	Aggregate	Natural Gas	755.7801313	87535.02065	3023.120525	0.493404516	0	0

Vehicle Category	Fuel	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW
HHDT	Gasoline	0.001131733	0	0.0005924	0.005000001	0.026460008	0.001230863	0	0.000644289	0.020000006	0.061740018
HHDT	Diesel	0.017590254	0.023346934	0	0.008758342	0.025749525	0.018385607	0.024402579	0	0.035033368	0.060082226
HHDT	Natural Gas	0.004295805	0.026388986	0	0.009000003	0.026460008	0.004490042	0.027582178	0	0.03600001	0.061740018
LDA	Gasoline	0.001319401	0	0.001603489	0.002000001	0.015750005	0.001434969	0	0.001743941	0.008000002	0.036750011
LDA	Diesel	0.004515342	0	0	0.002000001	0.015750005	0.004719506	0	0	0.008000002	0.036750011
LDA	Electricity	0	0	0	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011
LDT1	Gasoline	0.00169818	0	0.002019825	0.002000001	0.015750005	0.001846908	0	0.002196714	0.008000002	0.036750011
LDT1	Diesel	0.117039078	0	0	0.002000001	0.015750005	0.122331066	0	0	0.008000002	0.036750011
LDT1	Electricity	0	0	0	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011
LDT2	Gasoline	0.001334726	0	0.001557175	0.002000001	0.015750005	0.001451632	0	0.001693562	0.008000002	0.036750011
LDT2	Diesel	0.004425309	0	0	0.002000001	0.015750005	0.004625402	0	0	0.008000002	0.036750011
LDT2	Electricity	0	0	0	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011
LHDT1	Gasoline	0.001064552	0	0.000331616	0.002000001	0.032760009	0.001157797	0	0.000360663	0.008000002	0.076440022
LHDT1	Diesel	0.012213132	0.026210439	0	0.003000001	0.032760009	0.012765356	0.027395558	0	0.012000003	0.076440022
LHDT2	Gasoline	0.000950724	0	0.000278429	0.002000001	0.038220011	0.001033999	0	0.000302817	0.008000002	0.089180026
LHDT2	Diesel	0.01368377	0.026686871	0	0.003000001	0.038220011	0.014302489	0.027893532	0	0.012000003	0.089180026
MCY	Gasoline	0.002084066	0	0.002810469	0.001	0.005040001	0.002231693	0	0.002992682	0.004000001	0.011760003
MDV	Gasoline	0.001368458	0	0.001639613	0.002000001	0.015750005	0.001488296	0	0.001783187	0.008000002	0.036750011
MDV	Diesel	0.003837538	0	0	0.002000001	0.015750005	0.004011055	0	0	0.008000002	0.036750011
MDV	Electricity	0	0	0	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011
MH	Gasoline	0.00111993	0	0.000291811	0.003000001	0.055860016	0.001218026	0	0.000317371	0.012000003	0.130340037
MH	Diesel	0.080389792	0	0	0.004000001	0.055860016	0.084024661	0	0	0.016000005	0.130340037
MHDT	Gasoline	0.000835965	0	0.000314568	0.003000001	0.055860016	0.000909188	0	0.000342121	0.012000003	0.130340037
MHDT	Diesel	0.006708375	0.002239322	0	0.003000001	0.055860016	0.007011698	0.002340574	0	0.012000003	0.130340037
OBUS	Gasoline	0.000872688	0	0.000243338	0.003000001	0.055860016	0.000949128	0	0.000264652	0.012000003	0.130340037
OBUS	Diesel	0.010937608	0.003469805	0	0.003000001	0.055860016	0.011432158	0.003626694	0	0.012000003	0.130340037
SBUS	Gasoline	0.001157461	0	0.00050104	0.002000001	0.319200087	0.001258844	0	0.000544926	0.008000002	0.744800204
SBUS	Diesel	0.047674289	0.048621846	0	0.003000001	0.319200091	0.049829909	0.05082031	0	0.012000003	0.744800213
UBUS	Gasoline	0.001760601	0	0.00070825	0.003000002	0.055860034	0.001914814	0	0.000770287	0.012000007	0.130340079
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0.00319437	0	0	0.008648113	0.028184288	0.003338805	0	0	0.034592453	0.065763339

Vehicle Category	Fuel	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNEX	ROG_IDLEX
HHDT	Gasoline	1864.227753	0	45.35143496	0.083518836	0	0.000411343	0.121406417	0	0.008682978	0.401835806	0
HHDT	Diesel	1311.143125	10136.29218	0	0.000838769	0.207860747	0	0.206093441	1.593283974	0	0.018058473	4.475184887
HHDT	Natural Gas	3280.116469	3879.982608	0	4.607016296	1.288203605	0	0.6686732	0.790959837	0	0.23178046	0.048630076
LDA	Gasoline	259.9389059	0	50.88175817	0.002011902	0	0.038371081	0.003347867	0	0.022468777	0.007116737	0
LDA	Diesel	193.8735035	0	0	0.000566139	0	0	0.030474215	0	0	0.012188642	0
LDA	Electricity	0	0	0	0	0	0	0	0	0	0	0
LDT1	Gasoline	302.2652363	0	60.05985119	0.004450375	0	0.051528201	0.005424976	0	0.025026225	0.018661919	0
LDT1	Diesel	388.8784126	0	0	0.007331375	0	0	0.061126271	0	0	0.157840193	0
LDT1	Electricity	0	0	0	0	0	0	0	0	0	0	0
LDT2	Gasoline	320.584853	0	64.98482243	0.003226877	0	0.052073149	0.004564821	0	0.027434315	0.012315721	0
LDT2	Diesel	265.8208852	0	0	0.000810021	0	0	0.041783341	0	0	0.017439284	0
LDT2	Electricity	0	0	0	0	0	0	0	0	0	0	0
LHDT1	Gasoline	779.850026	119.0919282	18.41129996	0.004423604	0.121938191	0.020288134	0.008391263	0.003296344	0.039148465	0.020053769	0.420862211
LHDT1	Diesel	454.8466029	129.3144119	0	0.002842527	0.005098128	0	0.071495552	0.020326425	0	0.061197927	0.109759705
LHDT2	Gasoline	898.2288153	137.9369143	21.0508705	0.003301945	0.122840117	0.020726771	0.009220545	0.003230316	0.039157875	0.013529385	0.426031963
LHDT2	Diesel	502.143068	207.9441327	0	0.002649094	0.005098128	0	0.078929898	0.032685922	0	0.057033426	0.109759705
MCY	Gasoline	213.4113881	0	57.37888883	0.341555387	0	0.211052264	0.059143695	0	0.014866453	2.298285115	0
MDV	Gasoline	395.8629402	0	80.42061655	0.004093332	0	0.061996049	0.005598589	0	0.030042208	0.016075499	0
MDV	Diesel	350.2368937	0	0	0.000548855	0	0	0.055052362	0	0	0.011816517	0
MDV	Electricity	0	0	0	0	0	0	0	0	0	0	0
MH	Gasoline	1606.328975	0	24.56683467	0.00881293	0	0.029047029	0.017220804	0	0.037270491	0.035761608	0
MH	Diesel	949.8069698	0	0	0.003162186	0	0	0.149296429	0	0	0.06808001	0
MHDT	Gasoline	1635.61968	562.2154075	36.48760288	0.006069455	0.258066736	0.03263594	0.011990382	0.008939499	0.028099338	0.027505171	0.951435589
MHDT	Diesel	872.7812425	679.3838642	0	0.000335064	0.002894494	0	0.137189057	0.106789682	0	0.007213844	0.062317671
OBUS	Gasoline	1604.09637	369.5465091	25.12828075	0.009043347	0.201411549	0.027150495	0.015991617	0.005891465	0.024994815	0.042731866	0.746572763
OBUS	Diesel	1099.623342	2597.679421	0	0.000498136	0.042602817	0	0.172845476	0.40831903	0	0.010724729	0.917226974
SBUS	Gasoline	853.4229062	2547.197329	44.73773235	0.014394735	2.403515027	0.052264077	0.025420362	0.08866593	0.050029098	0.071877533	10.6271941
SBUS	Diesel	1213.308496	3742.593881	0	0.006106034	0.012735221	0	0.190715199	0.588283639	0	0.131461235	0.274185816
UBUS	Gasoline	2050.97872	0	90.40036669	0.007008973	0	0.104737917	0.020056056	0	0.071984599	0.02312811	0
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	2031.509072	0	0	6.490731561	0	0	0.414136414	0	0	0.092739747	0

Vehicle Category	Fuel	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN
HHDT	Gasoline	0.002159215	0.093626161	0.409715205	0.045557604	0.063400841	0.586357865	0	0.002364069	0.093626161	0.409715205	0.045557604	0.063400841
HHDT	Diesel	0	0	0	0	0	0.020558197	5.094657337	0	0	0	0	0
HHDT	Natural Gas	0	0	0	0	0	4.890884283	1.349143121	0	0	0	0	0
LDA	Gasoline	0.162963566	0.084639101	0.179230168	0.267833679	0.289553895	0.010384725	0	0.178424592	0.084639101	0.179230168	0.267833679	0.289553895
LDA	Diesel	0	0	0	0	0	0.013875958	0	0	0	0	0	0
LDA	Electricity	0	0.004888026	0	0.016337788	0.040293746	0	0	0	0.004888026	0	0.016337788	0.040293746
LDT1	Gasoline	0.243799748	0.162080374	0.507332313	0.558119321	0.665610314	0.027229101	0	0.26692987	0.162080374	0.507332313	0.558119321	0.665610314
LDT1	Diesel	0	0	0	0	0	0.179690566	0	0	0	0	0	0
LDT1	Electricity	0	0.004888026	0	0.016337788	0.040293746	0	0	0	0.004888026	0	0.016337788	0.040293746
LDT2	Gasoline	0.230764869	0.113138116	0.35006217	0.462760042	0.462642884	0.01797032	0	0.252658432	0.113138116	0.35006217	0.462760042	0.462642884
LDT2	Diesel	0	0	0	0	0	0.019853466	0	0	0	0	0	0
LDT2	Electricity	0	0.004888026	0	0.016337788	0.040293746	0	0	0	0.004888026	0	0.016337788	0.040293746
LHDT1	Gasoline	0.097500207	0.101301333	0.624422727	0.040524887	0.063725821	0.029262412	0.61412115	0.106750455	0.101301333	0.624422727	0.040524887	0.063725821
LHDT1	Diesel	0	0	0	0	0	0.069669771	0.124954127	0	0	0	0	0
LHDT2	Gasoline	0.099416498	0.100698263	0.547126433	0.039244616	0.059520866	0.019742048	0.62166484	0.108848552	0.100698263	0.547126433	0.039244616	0.059520866
LHDT2	Diesel	0	0	0	0	0	0.064928764	0.124954127	0	0	0	0	0
MCY	Gasoline	1.602097554	0.723888548	1.720880099	2.214430281	3.445025146	2.863038568	0	1.744101818	0.723888548	1.720880099	2.214430281	3.445025146
MDV	Gasoline	0.290550818	0.133397274	0.379918676	0.559096685	0.537740166	0.023447818	0	0.31811601	0.133397274	0.379918676	0.559096685	0.537740166
MDV	Diesel	0	0	0	0	0	0.013452319	0	0	0	0	0	0
MDV	Electricity	0	0.004888026	0	0.016337788	0.040293746	0	0	0	0.004888026	0	0.016337788	0.040293746
MH	Gasoline	0.113807228	0.065339345	1.362983215	0.0558495	0.12229822	0.052183255	0	0.124604589	0.065339345	1.362983215	0.0558495	0.12229822
MH	Diesel	0	0	0	0	0	0.077504565	0	0	0	0	0	0
MHDT	Gasoline	0.162813141	0.062358841	0.291205478	0.028639678	0.040786381	0.040135481	1.388332577	0.178259896	0.062358841	0.291205478	0.028639678	0.040786381
MHDT	Diesel	0	0	0	0	0	0.008212412	0.070943925	0	0	0	0	0
OBUS	Gasoline	0.138725766	0.027656465	0.288409527	0.033600451	0.062672164	0.062354238	1.089397224	0.151887252	0.027656465	0.288409527	0.033600451	0.062672164
OBUS	Diesel	0	0	0	0	0	0.012209287	1.04419309	0	0	0	0	0
SBUS	Gasoline	0.305300295	0.077188668	0.399961698	0.025300853	0.044664648	0.104883527	15.50717669	0.334265394	0.077188668	0.399961698	0.025300853	0.044664648
SBUS	Diesel	0	0	0	0	0	0.149658609	0.31213968	0	0	0	0	0
UBUS	Gasoline	0.446841595	0.05640215	0.309038758	0.018428459	0.023834825	0.033748484	0	0.489235302	0.05640215	0.309038758	0.018428459	0.023834825
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0	0	0	0	0	6.624267637	0	0	0	0	0	0

Vehicle Category	Fuel	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
HHDT	Gasoline	27.53191875	0	5.687854578	0.018448045	0	0.000448789
HHDT	Diesel	0.18772605	60.84316926	0	0.01238703	0.095762662	0
HHDT	Natural Gas	13.86317565	20.2095608	0	0	0	0
LDA	Gasoline	0.619442593	0	1.72207146	0.002572306	0	0.000503516
LDA	Diesel	0.220532161	0	0	0.001832802	0	0
LDA	Electricity	0	0	0	0	0	0
LDT1	Gasoline	1.017412355	0	1.821464467	0.00299116	0	0.000594341
LDT1	Diesel	0.892230988	0	0	0.003676299	0	0
LDT1	Electricity	0	0	0	0	0	0
LDT2	Gasoline	0.816212983	0	2.148829004	0.003172447	0	0.000643077
LDT2	Diesel	0.16057845	0	0	0.002512963	0	0
LDT2	Electricity	0	0	0	0	0	0
LHDT1	Gasoline	0.500765398	3.763340509	1.497467195	0.007717248	0.001178511	0.000182195
LHDT1	Diesel	0.323226002	0.909745076	0	0.004299936	0.001222486	0
LHDT2	Gasoline	0.351885341	3.768843079	1.470687598	0.008888702	0.001364998	0.000208315
LHDT2	Diesel	0.294667196	0.909745076	0	0.004747058	0.00196582	0
MCY	Gasoline	17.49876361	0	7.778133877	0.002111879	0	0.000567811
MDV	Gasoline	0.921219932	0	2.407462753	0.003917385	0	0.000795827
MDV	Diesel	0.233769757	0	0	0.003310998	0	0
MDV	Electricity	0	0	0	0	0	0
MH	Gasoline	0.949575098	0	2.436733614	0.015895927	0	0.000243109
MH	Diesel	0.281073629	0	0	0.008979092	0	0
MHDT	Gasoline	0.702268057	10.51628478	3.332889592	0.016185783	0.005563577	0.000361074
MHDT	Diesel	0.069709653	2.237911761	0	0.008245604	0.006418482	0
OBUS	Gasoline	1.058625356	5.776488301	2.801895929	0.015873834	0.003656962	0.000248665
OBUS	Diesel	0.111773946	13.68428076	0	0.010388696	0.024541587	0
SBUS	Gasoline	1.625956602	82.15389856	6.515746701	0.008445311	0.025206582	0.000442716
SBUS	Diesel	0.368220308	5.30409231	0	0.011462737	0.035358171	0
UBUS	Gasoline	0.351995421	0	7.257331833	0.020296097	0	0.000894585
UBUS	Diesel	0	0	0	0	0	0
UBUS	Natural Gas	50.56920031	0	0	0	0	0

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: Sub-Area
Region: Orange (SC)
Calendar Year: 2024
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX, RESTLOSS and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX
Orange (SC)	2024	HHDT	Aggregate	Aggregate	Gasoline	10.12464296	1269.902073	202.5738563	3.266184433	0	0.394281666
Orange (SC)	2024	HHDT	Aggregate	Aggregate	Diesel	11429.28565	1306102.563	115449.2372	2.394217179	56.27897813	2.566922106
Orange (SC)	2024	HHDT	Aggregate	Aggregate	Natural Gas	1043.368776	42497.96197	4069.138227	2.024517866	22.80909969	0
Orange (SC)	2024	LDA	Aggregate	Aggregate	Gasoline	1337490.995	50207250.91	6343722.318	0.026606552	0	0.162252252
Orange (SC)	2024	LDA	Aggregate	Aggregate	Diesel	14052.74116	540279.7011	66848.46524	0.039904198	0	0
Orange (SC)	2024	LDA	Aggregate	Aggregate	Electricity	38213.64694	1612689.314	189628.5946	0	0	0
Orange (SC)	2024	LDT1	Aggregate	Aggregate	Gasoline	149731.2088	5404033.518	694761.265	0.066440957	0	0.216821623
Orange (SC)	2024	LDT1	Aggregate	Aggregate	Diesel	44.08303123	944.9735888	151.0016428	0.753409112	0	0
Orange (SC)	2024	LDT1	Aggregate	Aggregate	Electricity	1734.875988	76322.38505	8717.218595	0	0	0
Orange (SC)	2024	LDT2	Aggregate	Aggregate	Gasoline	462837.1411	16818805.72	2167762.981	0.050063357	0	0.232886782
Orange (SC)	2024	LDT2	Aggregate	Aggregate	Diesel	3391.132854	137673.4842	16547.13863	0.035569844	0	0
Orange (SC)	2024	LDT2	Aggregate	Aggregate	Electricity	6803.92639	213824.6052	34199.81692	0	0	0
Orange (SC)	2024	LHDT1	Aggregate	Aggregate	Gasoline	35500.27712	1269667.479	528901.2337	0.135856871	0.036704925	0.484988149
Orange (SC)	2024	LHDT1	Aggregate	Aggregate	Diesel	26315.39616	1038905.117	331014.5789	1.108566663	1.815845872	0
Orange (SC)	2024	LHDT2	Aggregate	Aggregate	Gasoline	6420.174666	219449.6556	95651.03647	0.141610036	0.03713422	0.500223799
Orange (SC)	2024	LHDT2	Aggregate	Aggregate	Diesel	10385.10939	400280.4391	130631.6116	0.926703712	1.814832031	0
Orange (SC)	2024	MCY	Aggregate	Aggregate	Gasoline	62471.01534	431035.3333	124942.0307	1.089486371	0	0.266121221
Orange (SC)	2024	MDV	Aggregate	Aggregate	Gasoline	313457.4392	10907785.12	1450691.697	0.065437839	0	0.28766275
Orange (SC)	2024	MDV	Aggregate	Aggregate	Diesel	7889.854795	304989.8796	38231.32539	0.036492811	0	0
Orange (SC)	2024	MDV	Aggregate	Aggregate	Electricity	3994.854671	129775.1768	20300.83382	0	0	0
Orange (SC)	2024	MH	Aggregate	Aggregate	Gasoline	6712.679833	63982.30387	671.5364905	0.25488606	0	0.33542728
Orange (SC)	2024	MH	Aggregate	Aggregate	Diesel	3130.727871	28597.15485	313.0727871	3.449358019	0	0
Orange (SC)	2024	MHDT	Aggregate	Aggregate	Gasoline	7456.463322	364690.4142	149188.9181	0.210126621	0.085456792	0.324033389
Orange (SC)	2024	MHDT	Aggregate	Aggregate	Diesel	29435.84207	1944223.33	310907.4133	1.07635267	3.994851565	2.140032499
Orange (SC)	2024	OBUS	Aggregate	Aggregate	Gasoline	1021.888238	43427.56638	20445.93986	0.321106953	0.06508263	0.307998051
Orange (SC)	2024	OBUS	Aggregate	Aggregate	Diesel	650.7090352	49907.5233	6300.321307	1.519537172	12.8599135	2.209324307
Orange (SC)	2024	SBUS	Aggregate	Aggregate	Gasoline	584.491221	23797.35365	2337.964884	0.519860184	0.925550215	0.566994874
Orange (SC)	2024	SBUS	Aggregate	Aggregate	Diesel	1229.046344	38613.77331	14183.02441	7.769030796	44.5545635	0.779893422
Orange (SC)	2024	UBUS	Aggregate	Aggregate	Gasoline	214.7743581	20290.53631	859.0974323	0.244479306	0	0.819334459
Orange (SC)	2024	UBUS	Aggregate	Aggregate	Diesel	0	0	0	0	0	0
Orange (SC)	2024	UBUS	Aggregate	Aggregate	Natural Gas	755.7801313	87535.02065	3023.120525	0.493404516	0	0

Vehicle Category	Fuel	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW
HHDT	Gasoline	0.001131733	0	0.0005924	0.005000001	0.026460008	0.001230863	0	0.000644289	0.020000006	0.061740018
HHDT	Diesel	0.017590254	0.031511061	0	0.008758342	0.025749525	0.018385607	0.032935851	0	0.035033368	0.060082226
HHDT	Natural Gas	0.004295805	0.037323621	0	0.009000003	0.026460008	0.004490042	0.03901123	0	0.03600001	0.061740018
LDA	Gasoline	0.001319401	0	0.001603489	0.002000001	0.015750005	0.001434969	0	0.001743941	0.008000002	0.036750011
LDA	Diesel	0.004515342	0	0	0.002000001	0.015750005	0.004719506	0	0	0.008000002	0.036750011
LDA	Electricity	0	0	0	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011
LDT1	Gasoline	0.00169818	0	0.002019825	0.002000001	0.015750005	0.001846908	0	0.002196714	0.008000002	0.036750011
LDT1	Diesel	0.117039078	0	0	0.002000001	0.015750005	0.122331066	0	0	0.008000002	0.036750011
LDT1	Electricity	0	0	0	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011
LDT2	Gasoline	0.001334726	0	0.001557175	0.002000001	0.015750005	0.001451632	0	0.001693562	0.008000002	0.036750011
LDT2	Diesel	0.004425309	0	0	0.002000001	0.015750005	0.004625402	0	0	0.008000002	0.036750011
LDT2	Electricity	0	0	0	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011
LHDT1	Gasoline	0.001064552	0	0.000331616	0.002000001	0.032760009	0.001157797	0	0.000360663	0.008000002	0.076440022
LHDT1	Diesel	0.012213132	0.026210439	0	0.003000001	0.032760009	0.012765356	0.027395558	0	0.012000003	0.076440022
LHDT2	Gasoline	0.000950724	0	0.000278429	0.002000001	0.038220011	0.001033999	0	0.000302817	0.008000002	0.089180026
LHDT2	Diesel	0.01368377	0.026686871	0	0.003000001	0.038220011	0.014302489	0.027893532	0	0.012000003	0.089180026
MCY	Gasoline	0.002084066	0	0.002810469	0.001	0.005040001	0.002231693	0	0.002992682	0.004000001	0.011760003
MDV	Gasoline	0.001368458	0	0.001639613	0.002000001	0.015750005	0.001488296	0	0.001783187	0.008000002	0.036750011
MDV	Diesel	0.003837538	0	0	0.002000001	0.015750005	0.004011055	0	0	0.008000002	0.036750011
MDV	Electricity	0	0	0	0.002000001	0.015750005	0	0	0	0.008000002	0.036750011
MH	Gasoline	0.00111993	0	0.000291811	0.003000001	0.055860016	0.001218026	0	0.000317371	0.012000003	0.130340037
MH	Diesel	0.080389792	0	0	0.004000001	0.055860016	0.084024661	0	0	0.016000005	0.130340037
MHDT	Gasoline	0.000835965	0	0.000314568	0.003000001	0.055860016	0.000909188	0	0.000342121	0.012000003	0.130340037
MHDT	Diesel	0.006708375	0.003136719	0	0.003000001	0.055860016	0.007011698	0.003278548	0	0.012000003	0.130340037
OBUS	Gasoline	0.000872688	0	0.000243338	0.003000001	0.055860016	0.000949128	0	0.000264652	0.012000003	0.130340037
OBUS	Diesel	0.010937608	0.004505847	0	0.003000001	0.055860016	0.011432158	0.004709582	0	0.012000003	0.130340037
SBUS	Gasoline	0.001157461	0	0.00050104	0.002000001	0.319200087	0.001258844	0	0.000544926	0.008000002	0.744800204
SBUS	Diesel	0.047674289	0.069960489	0	0.003000001	0.319200091	0.049829909	0.073123792	0	0.012000003	0.744800213
UBUS	Gasoline	0.001760601	0	0.00070825	0.003000002	0.055860034	0.001914814	0	0.000770287	0.012000007	0.130340079
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0.00319437	0	0	0.008648113	0.028184288	0.003338805	0	0	0.034592453	0.065763339

Vehicle Category	Fuel	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNEX	ROG_IDLEX	ROG_STREX
HHDT	Gasoline	1863.058186	0	45.88075861	0.081558271	0	0.000432284	0.130446202	0	0.008954276	0.390809747	0	0.002261269
HHDT	Diesel	1311.143125	10411.07719	0	0.000838769	0.180871224	0	0.206093441	1.636476351	0	0.018058473	3.894107857	0
HHDT	Natural Gas	3280.116469	3894.596459	0	4.607016296	1.177664644	0	0.6686732	0.793938966	0	0.23178046	0.051680478	0
LDA	Gasoline	245.866411	0	51.48208717	0.001848854	0	0.043064237	0.003568952	0	0.023889879	0.006603958	0	0.184784138
LDA	Diesel	193.8735035	0	0	0.000566139	0	0	0.030474215	0	0	0.012188642	0	0
LDA	Electricity	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Gasoline	288.2077976	0	60.73691891	0.004127027	0	0.058126901	0.00580177	0	0.026595018	0.017431056	0	0.277599588
LDT1	Diesel	388.8784126	0	0	0.007331375	0	0	0.061126271	0	0	0.157840193	0	0
LDT1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Gasoline	306.9641442	0	65.75307683	0.002976787	0	0.058509326	0.004874703	0	0.029160871	0.011460201	0	0.26186861
LDT2	Diesel	265.8208852	0	0	0.000810021	0	0	0.041783341	0	0	0.017439284	0	0
LDT2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0
LHDT1	Gasoline	779.8268361	119.0919282	18.53965607	0.004296907	0.121631529	0.02108391	0.008963418	0.003238337	0.040441026	0.019440708	0.420862211	0.101627527
LHDT1	Diesel	454.8466029	129.3144119	0	0.002842527	0.005098128	0	0.071495552	0.020326425	0	0.061197927	0.109759705	0
LHDT2	Gasoline	898.2143041	137.9369143	21.17727591	0.003217223	0.122520122	0.0215372	0.009940402	0.003167525	0.040384954	0.013194113	0.426031963	0.103622817
LHDT2	Diesel	502.143068	207.9441327	0	0.002649094	0.005098128	0	0.078929898	0.032685922	0	0.057033426	0.109759705	0
MCY	Gasoline	214.8321212	0	59.46017001	0.348546189	0	0.238781365	0.063660013	0	0.015333331	2.360432725	0	1.826828953
MDV	Gasoline	381.4533324	0	81.3015077	0.003777521	0	0.069692056	0.005979214	0	0.031931856	0.014969873	0	0.329760889
MDV	Diesel	350.2368937	0	0	0.000548855	0	0	0.055052362	0	0	0.011816517	0	0
MDV	Electricity	0	0	0	0	0	0	0	0	0	0	0	0
MH	Gasoline	1606.277517	0	24.82618443	0.008563914	0	0.030520179	0.018516044	0	0.03812223	0.034528724	0	0.119242201
MH	Diesel	949.8069698	0	0	0.003162186	0	0	0.149296429	0	0	0.06808001	0	0
MHDT	Gasoline	1635.58817	507.7936567	36.82337082	0.005883649	0.295148238	0.03392587	0.012962673	0.008029438	0.028976036	0.026771345	1.097177882	0.170508373
MHDT	Diesel	872.7812425	695.5066177	0	0.000335064	0.002562964	0	0.137189057	0.109323955	0	0.007213844	0.055179914	0
OBUS	Gasoline	1604.046877	369.5465091	25.42759879	0.008786679	0.200840803	0.028377013	0.017267708	0.005759167	0.025760729	0.041511897	0.746572763	0.145347591
OBUS	Diesel	1099.623342	2682.135309	0	0.000498136	0.036863479	0	0.172845476	0.42159432	0	0.010724729	0.793660592	0
SBUS	Gasoline	853.3490086	2547.197329	47.24837108	0.014027983	2.40159271	0.059002945	0.02744188	0.086504086	0.051855657	0.069992208	10.6271941	0.344833596
SBUS	Diesel	1213.308496	3449.243389	0	0.006106034	0.013246094	0	0.190715199	0.542173027	0	0.131461235	0.285184771	0
UBUS	Gasoline	2050.963777	0	92.27388975	0.006827841	0	0.113893848	0.0214761	0	0.073747011	0.022590122	0	0.487384803
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	2031.509072	0	0	6.490731561	0	0	0.414136414	0	0	0.092739747	0	0

Vehicle Category	Fuel	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN
HHDT	Gasoline	0.10159879	0.447508968	0.032297388	0.04476832	0.570268665	0	0.002475805	0.10159879	0.447508968	0.032297388	0.04476832
HHDT	Diesel	0	0	0	0	0.020558197	4.43314537	0	0	0	0	0
HHDT	Natural Gas	0	0	0	0	4.890884283	1.241605091	0	0	0	0	0
LDA	Gasoline	0.088719422	0.219323157	0.195605016	0.193811785	0.009636481	0	0.202315372	0.088719422	0.219323157	0.195605016	0.193811785
LDA	Diesel	0	0	0	0	0.013875958	0	0	0	0	0	0
LDA	Electricity	0.004888026	0	0.005776742	0.017098082	0	0	0	0.004888026	0	0.005776742	0.017098082
LDT1	Gasoline	0.174435835	0.648942549	0.407223556	0.457672772	0.025433058	0	0.303936392	0.174435835	0.648942549	0.407223556	0.457672772
LDT1	Diesel	0	0	0	0	0.179690566	0	0	0	0	0	0
LDT1	Electricity	0.004888026	0	0.005776742	0.017098082	0	0	0	0.004888026	0	0.005776742	0.017098082
LDT2	Gasoline	0.118191295	0.442321432	0.340169605	0.301751451	0.016721956	0	0.286713097	0.118191295	0.442321432	0.340169605	0.301751451
LDT2	Diesel	0	0	0	0	0.019853466	0	0	0	0	0	0
LDT2	Electricity	0.004888026	0	0.005776742	0.017098082	0	0	0	0.004888026	0	0.005776742	0.017098082
LHDT1	Gasoline	0.112126801	0.701632702	0.030217644	0.046797548	0.028367835	0.61412115	0.111269349	0.112126801	0.701632702	0.030217644	0.046797548
LHDT1	Diesel	0	0	0	0	0.069669771	0.124954127	0	0	0	0	0
LHDT2	Gasoline	0.108116455	0.620153639	0.028672549	0.042699669	0.019252818	0.62166484	0.113453942	0.108116455	0.620153639	0.028672549	0.042699669
LHDT2	Diesel	0	0	0	0	0.064928764	0.124954127	0	0	0	0	0
MCY	Gasoline	0.868521527	2.128164436	1.483872985	2.544415755	2.938538938	0	1.988674522	0.868521527	2.128164436	1.483872985	2.544415755
MDV	Gasoline	0.138447949	0.475068852	0.41159685	0.347188774	0.021834579	0	0.361045931	0.138447949	0.475068852	0.41159685	0.347188774
MDV	Diesel	0	0	0	0	0.013452319	0	0	0	0	0	0
MDV	Electricity	0.004888026	0	0.005776742	0.017098082	0	0	0	0.004888026	0	0.005776742	0.017098082
MH	Gasoline	0.075596569	1.478903501	0.042101879	0.09740726	0.050384233	0	0.1305552	0.075596569	1.478903501	0.042101879	0.09740726
MH	Diesel	0	0	0	0	0.077504565	0	0	0	0	0	0
MHDT	Gasoline	0.064784188	0.334310491	0.020868627	0.028505634	0.039064683	1.60099939	0.186685206	0.064784188	0.334310491	0.020868627	0.028505634
MHDT	Diesel	0	0	0	0	0.008212412	0.062818132	0	0	0	0	0
OBUS	Gasoline	0.028714739	0.317258228	0.024704728	0.046392376	0.060574063	1.089397224	0.159137316	0.028714739	0.317258228	0.024704728	0.046392376
OBUS	Diesel	0	0	0	0	0.012209287	0.903522169	0	0	0	0	0
SBUS	Gasoline	0.079234889	0.541817401	0.018150351	0.031758312	0.102132466	15.50717669	0.377549383	0.079234889	0.541817401	0.018150351	0.031758312
SBUS	Diesel	0	0	0	0	0.149658609	0.324661153	0	0	0	0	0
UBUS	Gasoline	0.059522442	0.41814952	0.012948094	0.017455452	0.032963452	0	0.533625011	0.059522442	0.41814952	0.012948094	0.017455452
UBUS	Diesel	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Gas	0	0	0	0	6.624267637	0	0	0	0	0	0

Vehicle Category	Fuel	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
HHDT	Gasoline	26.82405466	0	6.021580295	0.018436471	0	0.000454027
HHDT	Diesel	0.18772605	62.92245961	0	0.01238703	0.098358695	0
HHDT	Natural Gas	13.86317565	21.81602715	0	0	0	0
LDA	Gasoline	0.548402751	0	2.054602537	0.002433047	0	0.000509457
LDA	Diesel	0.220532161	0	0	0.001832802	0	0
LDA	Electricity	0	0	0	0	0	0
LDT1	Gasoline	0.910816519	0	2.177041829	0.00285205	0	0.000601041
LDT1	Diesel	0.892230988	0	0	0.003676299	0	0
LDT1	Electricity	0	0	0	0	0	0
LDT2	Gasoline	0.72633449	0	2.567643696	0.003037659	0	0.00065068
LDT2	Diesel	0.16057845	0	0	0.002512963	0	0
LDT2	Electricity	0	0	0	0	0	0
LHDT1	Gasoline	0.487803133	3.763340509	1.56970507	0.007717019	0.001178511	0.000183465
LHDT1	Diesel	0.323226002	0.909745076	0	0.004299936	0.001222486	0
LHDT2	Gasoline	0.343642623	3.768843079	1.541527521	0.008888559	0.001364998	0.000209566
LHDT2	Diesel	0.294667196	0.909745076	0	0.004747058	0.00196582	0
MCY	Gasoline	18.2534847	0	8.61977111	0.002125938	0	0.000588407
MDV	Gasoline	0.820414419	0	2.880172809	0.00377479	0	0.000804544
MDV	Diesel	0.233769757	0	0	0.003310998	0	0
MDV	Electricity	0	0	0	0	0	0
MH	Gasoline	0.920465121	0	2.588844217	0.015895418	0	0.000245675
MH	Diesel	0.281073629	0	0	0.008979092	0	0
MHDT	Gasoline	0.684385174	19.9861443	3.528424919	0.016185471	0.00502503	0.000364397
MHDT	Diesel	0.069709653	2.338857122	0	0.008245604	0.006570802	0
OBUS	Gasoline	1.03072032	5.776488301	2.976708629	0.015873344	0.003656962	0.000251627
OBUS	Diesel	0.111773946	14.11386955	0	0.010388696	0.025339484	0
SBUS	Gasoline	1.584464907	82.15389856	8.015953444	0.00844458	0.025206582	0.000467561
SBUS	Diesel	0.368220308	6.523321836	0	0.011462737	0.032586741	0
UBUS	Gasoline	0.344032051	0	8.35345393	0.020295949	0	0.000913125
UBUS	Diesel	0	0	0	0	0	0
UBUS	Natural Gas	50.56920031	0	0	0	0	0

CalEEMod Construction Model

The Hub Fullerton Construction Run - Orange County, Summer

The Hub Fullerton Construction Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	68.46	1000sqft	1.57	68,464.00	0
Parking Lot	145.95	1000sqft	0.44	145,952.00	0
Apartments Mid Rise	420.00	Dwelling Unit	1.21	471,522.00	1201
Regional Shopping Center	12.44	1000sqft	0.29	12,438.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - based on info from applicant

Construction Phase - based on info from applicant

Off-road Equipment -

Off-road Equipment - No additional equipment for Demolition Debris Haul

Off-road Equipment - no additional equipment for debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - provided equipment from applicant would be electric

Off-road Equipment - no additional equipment for demo debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - proxy for geopier equipment

Off-road Equipment -

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Trips and VMT - 2 water trucks/vt/day, based on soil haul and demo info from applicant

Demolition -

Grading -

Architectural Coating - based on info from applicant, see assumptions file for calculations

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	6,219.00	36,799.00
tblArchitecturalCoating	ConstArea_Parking	12,865.00	8,757.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	318,277.00	15,914.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	100.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	230.00	435.00
tblConstructionPhase	NumDays	20.00	45.00

tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	NumDays	5.00	10.00
tblGrading	MaterialExported	0.00	8,000.00
tblGrading	MaterialExported	0.00	2,000.00
tblLandUse	LandUseSquareFeet	68,460.00	68,464.00
tblLandUse	LandUseSquareFeet	145,950.00	145,952.00
tblLandUse	LandUseSquareFeet	420,000.00	471,522.00
tblLandUse	LandUseSquareFeet	12,440.00	12,438.00
tblLandUse	LotAcreage	3.35	0.44
tblLandUse	LotAcreage	11.05	1.21
tblOffRoadEquipment	HorsePower	158.00	307.00
tblOffRoadEquipment	HorsePower	158.00	424.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	247.00	405.00
tblOffRoadEquipment	HorsePower	247.00	215.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	158.00	265.00
tblOffRoadEquipment	HorsePower	158.00	41.00
tblOffRoadEquipment	HorsePower	8.00	157.00
tblOffRoadEquipment	HorsePower	8.00	157.00

tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	65.00	90.00
tblOffRoadEquipment	HorsePower	65.00	73.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	HorsePower	97.00	241.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	109.00
tblOffRoadEquipment	HorsePower	97.00	197.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	HaulingTripNumber	277.00	280.00
tblTripsAndVMT	HaulingTripNumber	326.00	330.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.1309	79.9125	47.0056	0.1731	10.7970	2.3686	13.1656	4.1646	2.1817	6.3462	0.0000	17,902.5640	17,902.5640	3.8735	0.0000	17,999.4020
2023	1.4358	6.2044	12.3491	0.0580	4.9502	0.0342	4.9845	1.3247	0.0317	1.3564	0.0000	5,974.1736	5,974.1736	0.2292	0.0000	5,979.9023
2024	140.0136	17.1338	31.3924	0.0930	6.0903	0.5693	6.6596	1.6270	0.5306	2.1576	0.0000	9,346.1721	9,346.1721	0.9822	0.0000	9,370.7274
Maximum	**140.0136**	**79.9125**	**47.0056**	**0.1731**	**10.7970**	**2.3686**	**13.1656**	**4.1646**	**2.1817**	**6.3462**	**0.0000**	**17,902.5640**	**17,902.5640**	**3.8735**	**0.0000**	**17,999.4020**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.1309	79.9125	47.0056	0.1731	5.6380	2.3686	8.0067	2.0630	2.1817	4.2446	0.0000	17,902.5640	17,902.5640	3.8735	0.0000	17,999.4020
2023	1.4358	6.2044	12.3491	0.0580	4.5702	0.0342	4.6045	1.2314	0.0317	1.2631	0.0000	5,974.1736	5,974.1736	0.2292	0.0000	5,979.9023
2024	140.0136	17.1338	31.3924	0.0930	5.6211	0.5693	6.1904	1.5118	0.5306	2.0424	0.0000	9,346.1721	9,346.1721	0.9822	0.0000	9,370.7274
Maximum	**140.0136**	**79.9125**	**47.0056**	**0.1731**	**5.6380**	**2.3686**	**8.0067**	**2.0630**	**2.1817**	**4.2446**	**0.0000**	**17,902.5640**	**17,902.5640**	**3.8735**	**0.0000**	**17,999.4020**

	ROG	NOx	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**	**27.51**	**0.00**	**24.22**	**32.46**	**0.00**	**23.43**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building and Asphalt Demolition and Demolition Reprocessing	Demolition	1/1/2022	3/4/2022	5	45	a
2	Building Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	b
3	Asphalt Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	c
4	Site Preparation	Site Preparation	3/24/2022	4/6/2022	5	10	d
5	Rough Grading	Grading	4/7/2022	4/20/2022	5	10	e
6	Rough Grading Soil Haul	Grading	4/7/2022	4/20/2022	5	10	f
7	Ground/Soil Improvement	Site Preparation	4/13/2022	6/7/2022	5	40	g
8	Fine Grading	Grading	5/31/2022	6/13/2022	5	10	h
9	Fine Grading Soil Haul	Grading	5/31/2022	6/13/2022	5	10	i
10	Utility Trenching	Trenching	6/14/2022	7/12/2022	5	21	j
11	Building Construction	Building Construction	7/13/2022	3/12/2024	5	435	k

12	Finishing/Landscaping	Trenching	1/10/2024	3/26/2024	5	55	l
13	Paving	Paving	1/24/2024	3/12/2024	5	35	m
14	Architectural Coating	Architectural Coating	1/24/2024	3/12/2024	5	35	n

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.01

Residential Indoor: 954,832; Residential Outdoor: 15,914; Non-Residential Indoor: 18,657; Non-Residential Outdoor: 36,799; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building and Asphalt Demolition and Demolition Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building and Asphalt Demolition and Demolition Reprocessing	Excavators	2	8.00	307	0.38
Building and Asphalt Demolition and Demolition Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Building and Asphalt Demolition and Demolition Reprocessing	Skid Steer Loaders	1	8.00	73	0.37
Building and Asphalt Demolition and Demolition Reprocessing	Tractors/Loaders/Backhoes	1	8.00	197	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Skid Steer Loaders	1	8.00	74	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	179	0.41
Rough Grading	Plate Compactors	1	8.00	157	0.43

Rough Grading	Rubber Tired Dozers	1	8.00	405	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	215	0.40
Rough Grading	Scrapers	2	8.00	407	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	424	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Ground/Soil Improvement	Bore/Drill Rigs	1	8.00	221	0.50
Ground/Soil Improvement	Rubber Tired Dozers	0	8.00	247	0.40
Ground/Soil Improvement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	1	8.00	179	0.41
Fine Grading	Plate Compactors	1	8.00	157	0.43
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	407	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Fine Grading Soil Haul	Excavators	0	8.00	158	0.38
Fine Grading Soil Haul	Graders	0	8.00	187	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Utility Trenching	Excavators	1	8.00	265	0.38
Utility Trenching	Excavators	1	8.00	41	0.38
Utility Trenching	Skid Steer Loaders	1	8.00	90	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	241	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	109	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20

Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Finishing/Landscaping	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building and Asphalt Demolition and	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	330.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	2	5.00	0.00	1,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ground/Soil Improvement	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	1	3.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	396.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	79.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building and Asphalt Demolition and Demolition

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8451	7.8193	7.4195	0.0286		0.2686	0.2686		0.2471	0.2471		2,762.3138	2,762.3138	0.8934		2,784.6485
Total	**0.8451**	**7.8193**	**7.4195**	**0.0286**		**0.2686**	**0.2686**		**0.2471**	**0.2471**		**2,762.3138**	**2,762.3138**	**0.8934**		**2,784.6485**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0200e-003	0.1775	0.0491	4.9000e-004	0.0128	3.4000e-004	0.0131	3.6800e-003	3.2000e-004	4.0000e-003		53.2305	53.2305	4.0800e-003		53.3326
Worker	0.0341	0.0198	0.2835	1.0200e-003	0.1118	7.1000e-004	0.1125	0.0296	6.5000e-004	0.0303		101.3201	101.3201	2.0500e-003		101.3713

Total	**0.0391**	**0.1973**	**0.3326**	**1.5100e-003**	**0.1246**	**1.0500e-003**	**0.1256**	**0.0333**	**9.7000e-004**	**0.0343**		**154.5506**	**154.5506**	**6.1300e-003**		**154.7039**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8451	7.8193	7.4195	0.0286		0.2686	0.2686		0.2471	0.2471	0.0000	2,762.3138	2,762.3138	0.8934		2,784.6485
Total	**0.8451**	**7.8193**	**7.4195**	**0.0286**		**0.2686**	**0.2686**		**0.2471**	**0.2471**	**0.0000**	**2,762.3138**	**2,762.3138**	**0.8934**		**2,784.6485**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0200e-003	0.1775	0.0491	4.9000e-004	0.0120	3.4000e-004	0.0123	3.4800e-003	3.2000e-004	3.8000e-003		53.2305	53.2305	4.0800e-003		53.3326
Worker	0.0341	0.0198	0.2835	1.0200e-003	0.1030	7.1000e-004	0.1037	0.0275	6.5000e-004	0.0282		101.3201	101.3201	2.0500e-003		101.3713
Total	**0.0391**	**0.1973**	**0.3326**	**1.5100e-003**	**0.1150**	**1.0500e-003**	**0.1160**	**0.0310**	**9.7000e-004**	**0.0320**		**154.5506**	**154.5506**	**6.1300e-003**		**154.7039**

3.3 Building Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3315	0.0000	1.3315	0.2016	0.0000	0.2016			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.3315**	**0.0000**	**1.3315**	**0.2016**	**0.0000**	**0.2016**		**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	lb/day										lb/day					
Hauling	0.0425	1.4535	0.4368	4.6200e-003	0.1083	4.3000e-003	0.1126	0.0297	4.1100e-003	0.0338		517.3901	517.3901	0.0537		518.7321
Vendor	0.0000	0.0000	0.0000	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
Total	**0.0425**	**1.4535**	**0.4368**	**4.6200e-003**	**0.1083**	**4.3000e-003**	**0.1126**	**0.0297**	**4.1100e-003**	**0.0338**		**517.3901**	**517.3901**	**0.0537**		**518.7321**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Fugitive Dust					0.5692	0.0000	0.5692	0.0862	0.0000	0.0862			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.5692**	**0.0000**	**0.5692**	**0.0862**	**0.0000**	**0.0862**	**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	lb/day										lb/day					
Hauling	0.0425	1.4535	0.4368	4.6200e-003	0.1009	4.3000e-003	0.1052	0.0278	4.1100e-003	0.0320		517.3901	517.3901	0.0537		518.7321
Vendor	0.0000	0.0000	0.0000	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
Total	**0.0425**	**1.4535**	**0.4368**	**4.6200e-003**	**0.1009**	**4.3000e-003**	**0.1052**	**0.0278**	**4.1100e-003**	**0.0320**		**517.3901**	**517.3901**	**0.0537**		**518.7321**

3.4 Asphalt Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5655	0.0000	1.5655	0.2370	0.0000	0.2370			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

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.5655**	**0.0000**	**1.5655**	**0.2370**	**0.0000**	**0.2370**		**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	lb/day										lb/day					
Hauling	0.0501	1.7130	0.5148	5.4500e-003	0.1277	5.0600e-003	0.1327	0.0350	4.8400e-003	0.0398		609.7812	609.7812	0.0633		611.3628
Vendor	0.0000	0.0000	0.0000	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
Total	**0.0501**	**1.7130**	**0.5148**	**5.4500e-003**	**0.1277**	**5.0600e-003**	**0.1327**	**0.0350**	**4.8400e-003**	**0.0398**		**609.7812**	**609.7812**	**0.0633**		**611.3628**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6692	0.0000	0.6692	0.1013	0.0000	0.1013			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.6692**	**0.0000**	**0.6692**	**0.1013**	**0.0000**	**0.1013**	**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	lb/day										lb/day					
Hauling	0.0501	1.7130	0.5148	5.4500e-003	0.1189	5.0600e-003	0.1240	0.0328	4.8400e-003	0.0377		609.7812	609.7812	0.0633		611.3628
Vendor	0.0000	0.0000	0.0000	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
Total	**0.0501**	**1.7130**	**0.5148**	**5.4500e-003**	**0.1189**	**5.0600e-003**	**0.1240**	**0.0328**	**4.8400e-003**	**0.0377**		**609.7812**	**609.7812**	**0.0633**		**611.3628**

3.5 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4841	4.6111	8.0895	0.0127		0.2111	0.2111		0.1942	0.1942		1,228.1683	1,228.1683	0.3972		1,238.0987
Total	**0.4841**	**4.6111**	**8.0895**	**0.0127**	**0.0000**	**0.2111**	**0.2111**	**0.0000**	**0.1942**	**0.1942**		**1,228.1683**	**1,228.1683**	**0.3972**		**1,238.0987**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0200e-003	0.1775	0.0491	4.9000e-004	0.0128	3.4000e-004	0.0131	3.6800e-003	3.2000e-004	4.0000e-003		53.2305	53.2305	4.0800e-003		53.3326
Worker	0.0273	0.0158	0.2268	8.1000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.2000e-004	0.0242		81.0561	81.0561	1.6400e-003		81.0970
Total	**0.0323**	**0.1933**	**0.2759**	**1.3000e-003**	**0.1022**	**9.1000e-004**	**0.1031**	**0.0274**	**8.4000e-004**	**0.0282**		**134.2866**	**134.2866**	**5.7200e-003**		**134.4296**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4841	4.6111	8.0895	0.0127		0.2111	0.2111		0.1942	0.1942	0.0000	1,228.1683	1,228.1683	0.3972		1,238.0987
Total	**0.4841**	**4.6111**	**8.0895**	**0.0127**	**0.0000**	**0.2111**	**0.2111**	**0.0000**	**0.1942**	**0.1942**	**0.0000**	**1,228.1683**	**1,228.1683**	**0.3972**		**1,238.0987**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0200e-003	0.1775	0.0491	4.9000e-004	0.0120	3.4000e-004	0.0123	3.4800e-003	3.2000e-004	3.8000e-003		53.2305	53.2305	4.0800e-003		53.3326

Worker	0.0273	0.0158	0.2268	8.1000e-004	0.0824	5.7000e-004	0.0830	0.0220	5.2000e-004	0.0225		81.0561	81.0561	1.6400e-003		81.0970
Total	**0.0323**	**0.1933**	**0.2759**	**1.3000e-003**	**0.0944**	**9.1000e-004**	**0.0953**	**0.0255**	**8.4000e-004**	**0.0263**		**134.2866**	**134.2866**	**5.7200e-003**		**134.4296**

3.6 Rough Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.2995	46.2603	30.0359	0.0616		1.9260	1.9260		1.7720	1.7720		5,964.3035	5,964.3035	1.9290		6,012.5279
Total	**4.2995**	**46.2603**	**30.0359**	**0.0616**	**8.6733**	**1.9260**	**10.5994**	**3.5965**	**1.7720**	**5.3685**		**5,964.3035**	**5,964.3035**	**1.9290**		**6,012.5279**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0200e-003	0.1775	0.0491	4.9000e-004	0.0128	3.4000e-004	0.0131	3.6800e-003	3.2000e-004	4.0000e-003		53.2305	53.2305	4.0800e-003		53.3326
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	**0.0562**	**0.2072**	**0.4744**	**2.0100e-003**	**0.1804**	**1.4000e-003**	**0.1819**	**0.0482**	**1.3000e-003**	**0.0495**		**205.2107**	**205.2107**	**7.1500e-003**		**205.3895**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7079	0.0000	3.7079	1.5375	0.0000	1.5375			0.0000			0.0000
Off-Road	4.2995	46.2603	30.0359	0.0616		1.9260	1.9260		1.7720	1.7720	0.0000	5,964.3035	5,964.3035	1.9290		6,012.5279
Total	**4.2995**	**46.2603**	**30.0359**	**0.0616**	**3.7079**	**1.9260**	**5.6339**	**1.5375**	**1.7720**	**3.3095**	**0.0000**	**5,964.3035**	**5,964.3035**	**1.9290**		**6,012.5279**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0200e-003	0.1775	0.0491	4.9000e-004	0.0120	3.4000e-004	0.0123	3.4800e-003	3.2000e-004	3.8000e-003		53.2305	53.2305	4.0800e-003		53.3326
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1546	1.0600e-003	0.1556	0.0413	9.8000e-004	0.0422		151.9802	151.9802	3.0700e-003		152.0569
Total	**0.0562**	**0.2072**	**0.4744**	**2.0100e-003**	**0.1665**	**1.4000e-003**	**0.1679**	**0.0447**	**1.3000e-003**	**0.0460**		**205.2107**	**205.2107**	**7.1500e-003**		**205.3895**

3.7 Rough Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0905	0.0000	0.0905	0.0137	0.0000	0.0137			0.0000			0.0000
Off-Road	0.6686	6.1241	4.9122	0.0217		0.2086	0.2086		0.1919	0.1919		2,101.7318	2,101.7318	0.6797		2,118.7254
Total	**0.6686**	**6.1241**	**4.9122**	**0.0217**	**0.0905**	**0.2086**	**0.2990**	**0.0137**	**0.1919**	**0.2056**		**2,101.7318**	**2,101.7318**	**0.6797**		**2,118.7254**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6836	23.3591	7.0205	0.0743	1.7409	0.0690	1.8100	0.4766	0.0661	0.5426		8,315.1981	8,315.1981	0.8627		8,336.7659
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	9.8900e-003	0.1417	5.1000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.3000e-004	0.0152		50.6601	50.6601	1.0200e-003		50.6856
Total	**0.7007**	**23.3690**	**7.1623**	**0.0748**	**1.7968**	**0.0694**	**1.8662**	**0.4914**	**0.0664**	**0.5578**		**8,365.8582**	**8,365.8582**	**0.8637**		**8,387.4515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					0.0387	0.0000	0.0387	5.8600e-003	0.0000	5.8600e-003			0.0000			0.0000
Off-Road	0.6686	6.1241	4.9122	0.0217		0.2086	0.2086		0.1919	0.1919	0.0000	2,101.7318	2,101.7318	0.6797		2,118.7254
Total	**0.6686**	**6.1241**	**4.9122**	**0.0217**	**0.0387**	**0.2086**	**0.2473**	**5.8600e-003**	**0.1919**	**0.1978**	**0.0000**	**2,101.7318**	**2,101.7318**	**0.6797**		**2,118.7254**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6836	23.3591	7.0205	0.0743	1.6220	0.0690	1.6910	0.4474	0.0661	0.5134		8,315.1981	8,315.1981	0.8627		8,336.7659
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	9.8900e-003	0.1417	5.1000e-004	0.0515	3.5000e-004	0.0519	0.0138	3.3000e-004	0.0141		50.6601	50.6601	1.0200e-003		50.6856
Total	**0.7007**	**23.3690**	**7.1623**	**0.0748**	**1.6735**	**0.0694**	**1.7429**	**0.4611**	**0.0664**	**0.5275**		**8,365.8582**	**8,365.8582**	**0.8637**		**8,387.4515**

3.8 Ground/Soil Improvement - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498		1,214.7998	1,214.7998	0.3929		1,224.6220
Total	**0.3888**	**3.9421**	**4.2791**	**0.0126**	**0.0000**	**0.1629**	**0.1629**	**0.0000**	**0.1498**	**0.1498**		**1,214.7998**	**1,214.7998**	**0.3929**		**1,224.6220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	9.8900e-003	0.1417	5.1000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.3000e-004	0.0152		50.6601	50.6601	1.0200e-003		50.6856
Total	**0.0171**	**9.8900e-003**	**0.1417**	**5.1000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.3000e-004**	**0.0152**		**50.6601**	**50.6601**	**1.0200e-003**		**50.6856**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498	0.0000	1,214.7998	1,214.7998	0.3929		1,224.6220
Total	**0.3888**	**3.9421**	**4.2791**	**0.0126**	**0.0000**	**0.1629**	**0.1629**	**0.0000**	**0.1498**	**0.1498**	**0.0000**	**1,214.7998**	**1,214.7998**	**0.3929**		**1,224.6220**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	9.8900e-003	0.1417	5.1000e-004	0.0515	3.5000e-004	0.0519	0.0138	3.3000e-004	0.0141		50.6601	50.6601	1.0200e-003		50.6856
Total	**0.0171**	**9.8900e-003**	**0.1417**	**5.1000e-004**	**0.0515**	**3.5000e-004**	**0.0519**	**0.0138**	**3.3000e-004**	**0.0141**		**50.6601**	**50.6601**	**1.0200e-003**		**50.6856**

3.9 Fine Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3058	14.9509	8.7188	0.0232		0.5472	0.5472		0.5035	0.5035		2,244.3885	2,244.3885	0.7259		2,262.5355
Total	**1.3058**	**14.9509**	**8.7188**	**0.0232**	**1.5908**	**0.5472**	**2.1380**	**0.1718**	**0.5035**	**0.6752**		**2,244.3885**	**2,244.3885**	**0.7259**		**2,262.5355**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0200e-003	0.1775	0.0491	4.9000e-004	0.0128	3.4000e-004	0.0131	3.6800e-003	3.2000e-004	4.0000e-003		53.2305	53.2305	4.0800e-003		53.3326
Worker	0.0273	0.0158	0.2268	8.1000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.2000e-004	0.0242		81.0561	81.0561	1.6400e-003		81.0970
Total	**0.0323**	**0.1933**	**0.2759**	**1.3000e-003**	**0.1022**	**9.1000e-004**	**0.1031**	**0.0274**	**8.4000e-004**	**0.0282**		**134.2866**	**134.2866**	**5.7200e-003**		**134.4296**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6801	0.0000	0.6801	0.0734	0.0000	0.0734			0.0000			0.0000
Off-Road	1.3058	14.9509	8.7188	0.0232		0.5472	0.5472		0.5035	0.5035	0.0000	2,244.3885	2,244.3885	0.7259		2,262.5355
Total	**1.3058**	**14.9509**	**8.7188**	**0.0232**	**0.6801**	**0.5472**	**1.2273**	**0.0734**	**0.5035**	**0.5769**	**0.0000**	**2,244.3885**	**2,244.3885**	**0.7259**		**2,262.5355**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0200e-003	0.1775	0.0491	4.9000e-004	0.0120	3.4000e-004	0.0123	3.4800e-003	3.2000e-004	3.8000e-003		53.2305	53.2305	4.0800e-003		53.3326

Worker	0.0273	0.0158	0.2268	8.1000e-004	0.0824	5.7000e-004	0.0830	0.0220	5.2000e-004	0.0225		81.0561	81.0561	1.6400e-003		81.0970
Total	**0.0323**	**0.1933**	**0.2759**	**1.3000e-003**	**0.0944**	**9.1000e-004**	**0.0953**	**0.0255**	**8.4000e-004**	**0.0263**		**134.2866**	**134.2866**	**5.7200e-003**		**134.4296**

3.10 Fine Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0226	0.0000	0.0226	3.4200e-003	0.0000	3.4200e-003			0.0000			0.0000
Off-Road	0.3050	3.1691	1.8965	7.9200e-003		0.1093	0.1093		0.1006	0.1006		766.9693	766.9693	0.2481		773.1707
Total	**0.3050**	**3.1691**	**1.8965**	**7.9200e-003**	**0.0226**	**0.1093**	**0.1320**	**3.4200e-003**	**0.1006**	**0.1040**		**766.9693**	**766.9693**	**0.2481**		**773.1707**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1709	5.8398	1.7551	0.0186	0.4352	0.0173	0.4525	0.1191	0.0165	0.1357		2,078.7995	2,078.7995	0.2157		2,084.1915
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0102	5.9400e-003	0.0850	3.0000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		30.3960	30.3960	6.1000e-004		30.4114
Total	**0.1811**	**5.8457**	**1.8402**	**0.0189**	**0.4688**	**0.0175**	**0.4862**	**0.1280**	**0.0167**	**0.1447**		**2,109.1956**	**2,109.1956**	**0.2163**		**2,114.6029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.6700e-003	0.0000	9.6700e-003	1.4600e-003	0.0000	1.4600e-003			0.0000			0.0000
Off-Road	0.3050	3.1691	1.8965	7.9200e-003		0.1093	0.1093		0.1006	0.1006	0.0000	766.9693	766.9693	0.2481		773.1707
Total	**0.3050**	**3.1691**	**1.8965**	**7.9200e-003**	**9.6700e-003**	**0.1093**	**0.1190**	**1.4600e-003**	**0.1006**	**0.1021**	**0.0000**	**766.9693**	**766.9693**	**0.2481**		**773.1707**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1709	5.8398	1.7551	0.0186	0.4055	0.0173	0.4228	0.1118	0.0165	0.1284		2,078.7995	2,078.7995	0.2157		2,084.1915
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0102	5.9400e-003	0.0850	3.0000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		30.3960	30.3960	6.1000e-004		30.4114
Total	**0.1811**	**5.8457**	**1.8402**	**0.0189**	**0.4364**	**0.0175**	**0.4539**	**0.1201**	**0.0167**	**0.1368**		**2,109.1956**	**2,109.1956**	**0.2163**		**2,114.6029**

3.11 Utility Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0920	10.6939	11.4685	0.0271		0.4468	0.4468		0.4110	0.4110		2,622.7566	2,622.7566	0.8483		2,643.9629
Total	**1.0920**	**10.6939**	**11.4685**	**0.0271**		**0.4468**	**0.4468**		**0.4110**	**0.4110**		**2,622.7566**	**2,622.7566**	**0.8483**		**2,643.9629**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	**0.0512**	**0.0297**	**0.4252**	**1.5200e-003**	**0.1677**	**1.0600e-003**	**0.1687**	**0.0445**	**9.8000e-004**	**0.0455**		**151.9802**	**151.9802**	**3.0700e-003**		**152.0569**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.0920	10.6939	11.4685	0.0271		0.4468	0.4468		0.4110	0.4110	0.0000	2,622.7566	2,622.7566	0.8483		2,643.9629
Total	**1.0920**	**10.6939**	**11.4685**	**0.0271**		**0.4468**	**0.4468**		**0.4110**	**0.4110**	**0.0000**	**2,622.7566**	**2,622.7566**	**0.8483**		**2,643.9629**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1546	1.0600e-003	0.1556	0.0413	9.8000e-004	0.0422		151.9802	151.9802	3.0700e-003		152.0569
Total	**0.0512**	**0.0297**	**0.4252**	**1.5200e-003**	**0.1546**	**1.0600e-003**	**0.1556**	**0.0413**	**9.8000e-004**	**0.0422**		**151.9802**	**151.9802**	**3.0700e-003**		**152.0569**

3.12 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2057	7.2779	2.0145	0.0200	0.5239	0.0139	0.5378	0.1508	0.0133	0.1641		2,182.4514	2,182.4514	0.1674		2,186.6369
Worker	1.3508	0.7835	11.2257	0.0402	4.4264	0.0281	4.4544	1.1739	0.0259	1.1998		4,012.2769	4,012.2769	0.0810		4,014.3028
Total	**1.5565**	**8.0614**	**13.2402**	**0.0602**	**4.9502**	**0.0420**	**4.9922**	**1.3247**	**0.0392**	**1.3638**		**6,194.7283**	**6,194.7283**	**0.2485**		**6,200.9397**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2057	7.2779	2.0145	0.0200	0.4902	0.0139	0.5041	0.1425	0.0133	0.1558		2,182.4514	2,182.4514	0.1674		2,186.6369
Worker	1.3508	0.7835	11.2257	0.0402	4.0800	0.0281	4.1081	1.0889	0.0259	1.1147		4,012.2769	4,012.2769	0.0810		4,014.3028
Total	**1.5565**	**8.0614**	**13.2402**	**0.0602**	**4.5702**	**0.0420**	**4.6122**	**1.2314**	**0.0392**	**1.2705**		**6,194.7283**	**6,194.7283**	**0.2485**		**6,200.9397**

3.12 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1566	5.4931	1.8802	0.0193	0.5239	6.6100e-003	0.5305	0.1508	6.3200e-003	0.1571		2,116.1457	2,116.1457	0.1556		2,120.0367
Worker	1.2792	0.7114	10.4689	0.0387	4.4264	0.0276	4.4540	1.1739	0.0254	1.1993		3,858.0279	3,858.0279	0.0735		3,859.8655
Total	**1.4358**	**6.2044**	**12.3491**	**0.0580**	**4.9502**	**0.0342**	**4.9845**	**1.3247**	**0.0317**	**1.3564**		**5,974.1736**	**5,974.1736**	**0.2292**		**5,979.9023**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1566	5.4931	1.8802	0.0193	0.4902	6.6100e-003	0.4968	0.1425	6.3200e-003	0.1488		2,116.1457	2,116.1457	0.1556		2,120.0367

Worker	1.2792	0.7114	10.4689	0.0387	4.0800	0.0276	4.1076	1.0889	0.0254	1.1143		3,858.0279	3,858.0279	0.0735		3,859.8655
Total	**1.4358**	**6.2044**	**12.3491**	**0.0580**	**4.5702**	**0.0342**	**4.6045**	**1.2314**	**0.0317**	**1.2631**		**5,974.1736**	**5,974.1736**	**0.2292**		**5,979.9023**

3.12 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1513	5.4245	1.8412	0.0192	0.5239	6.4700e-003	0.5304	0.1508	6.1900e-003	0.1569		2,099.3358	2,099.3358	0.1533		2,103.1683
Worker	1.2157	0.6478	9.7450	0.0371	4.4264	0.0271	4.4535	1.1739	0.0250	1.1989		3,705.1464	3,705.1464	0.0667		3,706.8150
Total	**1.3670**	**6.0723**	**11.5862**	**0.0563**	**4.9502**	**0.0336**	**4.9838**	**1.3246**	**0.0312**	**1.3558**		**5,804.4822**	**5,804.4822**	**0.2200**		**5,809.9833**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1513	5.4245	1.8412	0.0192	0.4902	6.4700e-003	0.4967	0.1425	6.1900e-003	0.1487		2,099.3358	2,099.3358	0.1533		2,103.1683
Worker	1.2157	0.6478	9.7450	0.0371	4.0800	0.0271	4.1072	1.0889	0.0250	1.1139		3,705.1464	3,705.1464	0.0667		3,706.8150
Total	**1.3670**	**6.0723**	**11.5862**	**0.0563**	**4.5702**	**0.0336**	**4.6038**	**1.2314**	**0.0312**	**1.2625**		**5,804.4822**	**5,804.4822**	**0.2200**		**5,809.9833**

3.13 Finishing/Landscaping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636		500.2654	500.2654	0.1618		504.3103
Total	**0.1803**	**1.4029**	**3.2650**	**5.1700e-003**		**0.0691**	**0.0691**		**0.0636**	**0.0636**		**500.2654**	**500.2654**	**0.1618**		**504.3103**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.2100e-003	4.9100e-003	0.0738	2.8000e-004	0.0335	2.1000e-004	0.0337	8.8900e-003	1.9000e-004	9.0800e-003		28.0693	28.0693	5.1000e-004		28.0819
Total	**9.2100e-003**	**4.9100e-003**	**0.0738**	**2.8000e-004**	**0.0335**	**2.1000e-004**	**0.0337**	**8.8900e-003**	**1.9000e-004**	**9.0800e-003**		**28.0693**	**28.0693**	**5.1000e-004**		**28.0819**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636	0.0000	500.2654	500.2654	0.1618		504.3103
Total	**0.1803**	**1.4029**	**3.2650**	**5.1700e-003**		**0.0691**	**0.0691**		**0.0636**	**0.0636**	**0.0000**	**500.2654**	**500.2654**	**0.1618**		**504.3103**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.2100e-003	4.9100e-003	0.0738	2.8000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	1.9000e-004	8.4400e-003		28.0693	28.0693	5.1000e-004		28.0819
Total	**9.2100e-003**	**4.9100e-003**	**0.0738**	**2.8000e-004**	**0.0309**	**2.1000e-004**	**0.0311**	**8.2500e-003**	**1.9000e-004**	**8.4400e-003**		**28.0693**	**28.0693**	**5.1000e-004**		**28.0819**

3.14 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9143**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**		**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0614	0.0327	0.4922	1.8800e-003	0.2236	1.3700e-003	0.2249	0.0593	1.2600e-003	0.0606		187.1286	187.1286	3.3700e-003		187.2129
Total	**0.0614**	**0.0327**	**0.4922**	**1.8800e-003**	**0.2236**	**1.3700e-003**	**0.2249**	**0.0593**	**1.2600e-003**	**0.0606**		**187.1286**	**187.1286**	**3.3700e-003**		**187.2129**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9143**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**	**0.0000**	**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0614	0.0327	0.4922	1.8800e-003	0.2061	1.3700e-003	0.2074	0.0550	1.2600e-003	0.0563		187.1286	187.1286	3.3700e-003		187.2129
Total	**0.0614**	**0.0327**	**0.4922**	**1.8800e-003**	**0.2061**	**1.3700e-003**	**0.2074**	**0.0550**	**1.2600e-003**	**0.0563**		**187.1286**	**187.1286**	**3.3700e-003**		**187.2129**

3.15 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	137.0581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**137.2389**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2425	0.1292	1.9441	7.4100e-003	0.8830	5.4100e-003	0.8885	0.2342	4.9800e-003	0.2392		739.1580	739.1580	0.0133		739.4909
Total	**0.2425**	**0.1292**	**1.9441**	**7.4100e-003**	**0.8830**	**5.4100e-003**	**0.8885**	**0.2342**	**4.9800e-003**	**0.2392**		**739.1580**	**739.1580**	**0.0133**		**739.4909**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	137.0581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**137.2389**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.2425	0.1292	1.9441	7.4100e-003	0.8139	5.4100e-003	0.8194	0.2172	4.9800e-003	0.2222		739.1580	739.1580	0.0133		739.4909
Total	**0.2425**	**0.1292**	**1.9441**	**7.4100e-003**	**0.8139**	**5.4100e-003**	**0.8194**	**0.2172**	**4.9800e-003**	**0.2222**		**739.1580**	**739.1580**	**0.0133**		**739.4909**

The Hub Fullerton Construction Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	68.46	1000sqft	1.57	68,464.00	0
Parking Lot	145.95	1000sqft	0.44	145,952.00	0
Apartments Mid Rise	420.00	Dwelling Unit	1.21	471,522.00	1201
Regional Shopping Center	12.44	1000sqft	0.29	12,438.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - based on info from applicant

Construction Phase - based on info from applicant

Off-road Equipment -

Off-road Equipment - No additional equipment for Demolition Debris Haul

Off-road Equipment - no additional equipment for debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - provided equipment from applicant would be electric

Off-road Equipment - no additional equipment for demo debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - proxy for geopier equipment

Off-road Equipment -

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Trips and VMT - 2 water trucks/vt/day, based on soil haul and demo info from applicant

Demolition -

Grading -

Architectural Coating - based on info from applicant, see assumptions file for calculations

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	6,219.00	36,799.00
tblArchitecturalCoating	ConstArea_Parking	12,865.00	8,757.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	318,277.00	15,914.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	100.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	230.00	435.00
tblConstructionPhase	NumDays	20.00	45.00

tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	NumDays	5.00	10.00
tblGrading	MaterialExported	0.00	8,000.00
tblGrading	MaterialExported	0.00	2,000.00
tblLandUse	LandUseSquareFeet	68,460.00	68,464.00
tblLandUse	LandUseSquareFeet	145,950.00	145,952.00
tblLandUse	LandUseSquareFeet	420,000.00	471,522.00
tblLandUse	LandUseSquareFeet	12,440.00	12,438.00
tblLandUse	LotAcreage	3.35	0.44
tblLandUse	LotAcreage	11.05	1.21
tblOffRoadEquipment	HorsePower	158.00	307.00
tblOffRoadEquipment	HorsePower	158.00	424.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	247.00	405.00
tblOffRoadEquipment	HorsePower	247.00	215.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	158.00	265.00
tblOffRoadEquipment	HorsePower	158.00	41.00
tblOffRoadEquipment	HorsePower	8.00	157.00
tblOffRoadEquipment	HorsePower	8.00	157.00

tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	65.00	90.00
tblOffRoadEquipment	HorsePower	65.00	73.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	HorsePower	97.00	241.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	109.00
tblOffRoadEquipment	HorsePower	97.00	197.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	HaulingTripNumber	277.00	280.00
tblTripsAndVMT	HaulingTripNumber	326.00	330.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.1594	80.1702	47.2849	0.1719	10.7970	2.3699	13.1669	4.1646	2.1829	6.3475	0.0000	17,760.8923	17,760.8923	3.8916	0.0000	17,858.1810
2023	1.6209	6.2430	11.6583	0.0555	4.9502	0.0346	4.9849	1.3247	0.0321	1.3568	0.0000	5,716.5830	5,716.5830	0.2315	0.0000	5,722.3705
2024	140.2388	17.1833	30.5427	0.0900	6.0903	0.5696	6.6600	1.6270	0.5309	2.1579	0.0000	9,046.4393	9,046.4393	0.9836	0.0000	9,071.0280
Maximum	**140.2388**	**80.1702**	**47.2849**	**0.1719**	**10.7970**	**2.3699**	**13.1669**	**4.1646**	**2.1829**	**6.3475**	**0.0000**	**17,760.8923**	**17,760.8923**	**3.8916**	**0.0000**	**17,858.1810**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.1594	80.1702	47.2849	0.1719	5.6380	2.3699	8.0079	2.0630	2.1829	4.2459	0.0000	17,760.8923	17,760.8923	3.8916	0.0000	17,858.1810
2023	1.6209	6.2430	11.6583	0.0555	4.5702	0.0346	4.6049	1.2314	0.0321	1.2635	0.0000	5,716.5830	5,716.5830	0.2315	0.0000	5,722.3705
2024	140.2388	17.1833	30.5427	0.0900	5.6211	0.5696	6.1908	1.5118	0.5309	2.0428	0.0000	9,046.4393	9,046.4393	0.9836	0.0000	9,071.0280
Maximum	**140.2388**	**80.1702**	**47.2849**	**0.1719**	**5.6380**	**2.3699**	**8.0079**	**2.0630**	**2.1829**	**4.2459**	**0.0000**	**17,760.8923**	**17,760.8923**	**3.8916**	**0.0000**	**17,858.1810**

	ROG	NOx	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**	**27.51**	**0.00**	**24.21**	**32.46**	**0.00**	**23.42**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building and Asphalt Demolition and Demolition Reprocessing	Demolition	1/1/2022	3/4/2022	5	45	a
2	Building Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	b
3	Asphalt Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	c
4	Site Preparation	Site Preparation	3/24/2022	4/6/2022	5	10	d
5	Rough Grading	Grading	4/7/2022	4/20/2022	5	10	e
6	Rough Grading Soil Haul	Grading	4/7/2022	4/20/2022	5	10	f
7	Ground/Soil Improvement	Site Preparation	4/13/2022	6/7/2022	5	40	g
8	Fine Grading	Grading	5/31/2022	6/13/2022	5	10	h
9	Fine Grading Soil Haul	Grading	5/31/2022	6/13/2022	5	10	i
10	Utility Trenching	Trenching	6/14/2022	7/12/2022	5	21	j

11	Building Construction	Building Construction	7/13/2022	3/12/2024	5	435	k
12	Finishing/Landscaping	Trenching	1/10/2024	3/26/2024	5	55	l
13	Paving	Paving	1/24/2024	3/12/2024	5	35	m
14	Architectural Coating	Architectural Coating	1/24/2024	3/12/2024	5	35	n

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.01

Residential Indoor: 954,832; Residential Outdoor: 15,914; Non-Residential Indoor: 18,657; Non-Residential Outdoor: 36,799; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building and Asphalt Demolition and Demolition Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building and Asphalt Demolition and Demolition Reprocessing	Excavators	2	8.00	307	0.38
Building and Asphalt Demolition and Demolition Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Building and Asphalt Demolition and Demolition Reprocessing	Skid Steer Loaders	1	8.00	73	0.37
Building and Asphalt Demolition and Demolition Reprocessing	Tractors/Loaders/Backhoes	1	8.00	197	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Skid Steer Loaders	1	8.00	74	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	179	0.41

Rough Grading	Plate Compactors	1	8.00	157	0.43
Rough Grading	Rubber Tired Dozers	1	8.00	405	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	215	0.40
Rough Grading	Scrapers	2	8.00	407	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	424	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Ground/Soil Improvement	Bore/Drill Rigs	1	8.00	221	0.50
Ground/Soil Improvement	Rubber Tired Dozers	0	8.00	247	0.40
Ground/Soil Improvement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	1	8.00	179	0.41
Fine Grading	Plate Compactors	1	8.00	157	0.43
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	407	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Fine Grading Soil Haul	Excavators	0	8.00	158	0.38
Fine Grading Soil Haul	Graders	0	8.00	187	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Utility Trenching	Excavators	1	8.00	265	0.38
Utility Trenching	Excavators	1	8.00	41	0.38
Utility Trenching	Skid Steer Loaders	1	8.00	90	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	241	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	109	0.37
Building Construction	Cranes	0	7.00	231	0.29

Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Finishing/Landscaping	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building and Asphalt Demolition and	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	330.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	2	5.00	0.00	1,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ground/Soil Improvement	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	1	3.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	396.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	79.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building and Asphalt Demolition and Demolition

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8451	7.8193	7.4195	0.0286		0.2686	0.2686		0.2471	0.2471		2,762.3138	2,762.3138	0.8934		2,784.6485
Total	**0.8451**	**7.8193**	**7.4195**	**0.0286**		**0.2686**	**0.2686**		**0.2471**	**0.2471**		**2,762.3138**	**2,762.3138**	**0.8934**		**2,784.6485**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2700e-003	0.1770	0.0538	4.8000e-004	0.0128	3.5000e-004	0.0131	3.6800e-003	3.4000e-004	4.0100e-003		51.9179	51.9179	4.2700e-003		52.0247

Worker	0.0387	0.0217	0.2612	9.6000e-004	0.1118	7.1000e-004	0.1125	0.0296	6.5000e-004	0.0303		95.8979	95.8979	1.9400e-003		95.9463
Total	**0.0440**	**0.1987**	**0.3150**	**1.4400e-003**	**0.1246**	**1.0600e-003**	**0.1256**	**0.0333**	**9.9000e-004**	**0.0343**		**147.8157**	**147.8157**	**6.2100e-003**		**147.9710**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8451	7.8193	7.4195	0.0286		0.2686	0.2686		0.2471	0.2471	0.0000	2,762.3138	2,762.3138	0.8934		2,784.6485
Total	**0.8451**	**7.8193**	**7.4195**	**0.0286**		**0.2686**	**0.2686**		**0.2471**	**0.2471**	**0.0000**	**2,762.3138**	**2,762.3138**	**0.8934**		**2,784.6485**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2700e-003	0.1770	0.0538	4.8000e-004	0.0120	3.5000e-004	0.0123	3.4800e-003	3.4000e-004	3.8100e-003		51.9179	51.9179	4.2700e-003		52.0247
Worker	0.0387	0.0217	0.2612	9.6000e-004	0.1030	7.1000e-004	0.1037	0.0275	6.5000e-004	0.0282		95.8979	95.8979	1.9400e-003		95.9463
Total	**0.0440**	**0.1987**	**0.3150**	**1.4400e-003**	**0.1150**	**1.0600e-003**	**0.1161**	**0.0310**	**9.9000e-004**	**0.0320**		**147.8157**	**147.8157**	**6.2100e-003**		**147.9710**

3.3 Building Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3315	0.0000	1.3315	0.2016	0.0000	0.2016			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.3315**	**0.0000**	**1.3315**	**0.2016**	**0.0000**	**0.2016**		**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	lb/day										lb/day					
Hauling	0.0436	1.4692	0.4574	4.5500e-003	0.1083	4.3800e-003	0.1127	0.0297	4.1900e-003	0.0338		509.5001	509.5001	0.0548		510.8703
Vendor	0.0000	0.0000	0.0000	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
Total	**0.0436**	**1.4692**	**0.4574**	**4.5500e-003**	**0.1083**	**4.3800e-003**	**0.1127**	**0.0297**	**4.1900e-003**	**0.0338**		**509.5001**	**509.5001**	**0.0548**		**510.8703**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5692	0.0000	0.5692	0.0862	0.0000	0.0862			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.5692**	**0.0000**	**0.5692**	**0.0862**	**0.0000**	**0.0862**	**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	lb/day										lb/day					
Hauling	0.0436	1.4692	0.4574	4.5500e-003	0.1009	4.3800e-003	0.1053	0.0278	4.1900e-003	0.0320		509.5001	509.5001	0.0548		510.8703
Vendor	0.0000	0.0000	0.0000	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
Total	**0.0436**	**1.4692**	**0.4574**	**4.5500e-003**	**0.1009**	**4.3800e-003**	**0.1053**	**0.0278**	**4.1900e-003**	**0.0320**		**509.5001**	**509.5001**	**0.0548**		**510.8703**

3.4 Asphalt Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					1.5655	0.0000	1.5655	0.2370	0.0000	0.2370			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.5655**	**0.0000**	**1.5655**	**0.2370**	**0.0000**	**0.2370**		**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	lb/day										lb/day					
Hauling	0.0514	1.7316	0.5391	5.3600e-003	0.1277	5.1600e-003	0.1328	0.0350	4.9300e-003	0.0399		600.4823	600.4823	0.0646		602.0971
Vendor	0.0000	0.0000	0.0000	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
Total	**0.0514**	**1.7316**	**0.5391**	**5.3600e-003**	**0.1277**	**5.1600e-003**	**0.1328**	**0.0350**	**4.9300e-003**	**0.0399**		**600.4823**	**600.4823**	**0.0646**		**602.0971**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6692	0.0000	0.6692	0.1013	0.0000	0.1013			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.6692**	**0.0000**	**0.6692**	**0.1013**	**0.0000**	**0.1013**	**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	lb/day										lb/day					
Hauling	0.0514	1.7316	0.5391	5.3600e-003	0.1189	5.1600e-003	0.1241	0.0328	4.9300e-003	0.0377		600.4823	600.4823	0.0646		602.0971
Vendor	0.0000	0.0000	0.0000	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
Total	**0.0514**	**1.7316**	**0.5391**	**5.3600e-003**	**0.1189**	**5.1600e-003**	**0.1241**	**0.0328**	**4.9300e-003**	**0.0377**		**600.4823**	**600.4823**	**0.0646**		**602.0971**

3.5 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4841	4.6111	8.0895	0.0127		0.2111	0.2111		0.1942	0.1942		1,228.1683	1,228.1683	0.3972		1,238.0987
Total	**0.4841**	**4.6111**	**8.0895**	**0.0127**	**0.0000**	**0.2111**	**0.2111**	**0.0000**	**0.1942**	**0.1942**		**1,228.1683**	**1,228.1683**	**0.3972**		**1,238.0987**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2700e-003	0.1770	0.0538	4.8000e-004	0.0128	3.5000e-004	0.0131	3.6800e-003	3.4000e-004	4.0100e-003		51.9179	51.9179	4.2700e-003		52.0247
Worker	0.0310	0.0174	0.2089	7.7000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.2000e-004	0.0242		76.7183	76.7183	1.5500e-003		76.7570
Total	**0.0363**	**0.1944**	**0.2628**	**1.2500e-003**	**0.1022**	**9.2000e-004**	**0.1031**	**0.0274**	**8.6000e-004**	**0.0283**		**128.6362**	**128.6362**	**5.8200e-003**		**128.7817**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4841	4.6111	8.0895	0.0127		0.2111	0.2111		0.1942	0.1942	0.0000	1,228.1683	1,228.1683	0.3972		1,238.0987
Total	**0.4841**	**4.6111**	**8.0895**	**0.0127**	**0.0000**	**0.2111**	**0.2111**	**0.0000**	**0.1942**	**0.1942**	**0.0000**	**1,228.1683**	**1,228.1683**	**0.3972**		**1,238.0987**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2700e-003	0.1770	0.0538	4.8000e-004	0.0120	3.5000e-004	0.0123	3.4800e-003	3.4000e-004	3.8100e-003		51.9179	51.9179	4.2700e-003		52.0247
Worker	0.0310	0.0174	0.2089	7.7000e-004	0.0824	5.7000e-004	0.0830	0.0220	5.2000e-004	0.0225		76.7183	76.7183	1.5500e-003		76.7570
Total	**0.0363**	**0.1944**	**0.2628**	**1.2500e-003**	**0.0944**	**9.2000e-004**	**0.0953**	**0.0255**	**8.6000e-004**	**0.0263**		**128.6362**	**128.6362**	**5.8200e-003**		**128.7817**

3.6 Rough Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.2995	46.2603	30.0359	0.0616		1.9260	1.9260		1.7720	1.7720		5,964.3035	5,964.3035	1.9290		6,012.5279
Total	**4.2995**	**46.2603**	**30.0359**	**0.0616**	**8.6733**	**1.9260**	**10.5994**	**3.5965**	**1.7720**	**5.3685**		**5,964.3035**	**5,964.3035**	**1.9290**		**6,012.5279**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2700e-003	0.1770	0.0538	4.8000e-004	0.0128	3.5000e-004	0.0131	3.6800e-003	3.4000e-004	4.0100e-003		51.9179	51.9179	4.2700e-003		52.0247

Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.0634**	**0.2096**	**0.4456**	**1.9200e-003**	**0.1804**	**1.4100e-003**	**0.1819**	**0.0482**	**1.3200e-003**	**0.0495**		**195.7647**	**195.7647**	**7.1700e-003**		**195.9441**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7079	0.0000	3.7079	1.5375	0.0000	1.5375			0.0000			0.0000
Off-Road	4.2995	46.2603	30.0359	0.0616		1.9260	1.9260		1.7720	1.7720	0.0000	5,964.3035	5,964.3035	1.9290		6,012.5279
Total	**4.2995**	**46.2603**	**30.0359**	**0.0616**	**3.7079**	**1.9260**	**5.6339**	**1.5375**	**1.7720**	**3.3095**	**0.0000**	**5,964.3035**	**5,964.3035**	**1.9290**		**6,012.5279**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2700e-003	0.1770	0.0538	4.8000e-004	0.0120	3.5000e-004	0.0123	3.4800e-003	3.4000e-004	3.8100e-003		51.9179	51.9179	4.2700e-003		52.0247
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1546	1.0600e-003	0.1556	0.0413	9.8000e-004	0.0422		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.0634**	**0.2096**	**0.4456**	**1.9200e-003**	**0.1665**	**1.4100e-003**	**0.1679**	**0.0447**	**1.3200e-003**	**0.0460**		**195.7647**	**195.7647**	**7.1700e-003**		**195.9441**

3.7 Rough Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0905	0.0000	0.0905	0.0137	0.0000	0.0137			0.0000			0.0000
Off-Road	0.6686	6.1241	4.9122	0.0217		0.2086	0.2086		0.1919	0.1919		2,101.7318	2,101.7318	0.6797		2,118.7254
Total	**0.6686**	**6.1241**	**4.9122**	**0.0217**	**0.0905**	**0.2086**	**0.2990**	**0.0137**	**0.1919**	**0.2056**		**2,101.7318**	**2,101.7318**	**0.6797**		**2,118.7254**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7004	23.6126	7.3509	0.0731	1.7409	0.0703	1.8113	0.4766	0.0673	0.5438		8,188.3946	8,188.3946	0.8808		8,210.4153
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0194	0.0109	0.1306	4.8000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.3000e-004	0.0152		47.9489	47.9489	9.7000e-004		47.9731
Total	**0.7198**	**23.6234**	**7.4815**	**0.0736**	**1.7968**	**0.0707**	**1.8675**	**0.4914**	**0.0676**	**0.5590**		**8,236.3436**	**8,236.3436**	**0.8818**		**8,258.3884**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0387	0.0000	0.0387	5.8600e-003	0.0000	5.8600e-003			0.0000			0.0000
Off-Road	0.6686	6.1241	4.9122	0.0217		0.2086	0.2086		0.1919	0.1919	0.0000	2,101.7318	2,101.7318	0.6797		2,118.7254
Total	**0.6686**	**6.1241**	**4.9122**	**0.0217**	**0.0387**	**0.2086**	**0.2473**	**5.8600e-003**	**0.1919**	**0.1978**	**0.0000**	**2,101.7318**	**2,101.7318**	**0.6797**		**2,118.7254**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7004	23.6126	7.3509	0.0731	1.6220	0.0703	1.6923	0.4474	0.0673	0.5146		8,188.3946	8,188.3946	0.8808		8,210.4153
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0194	0.0109	0.1306	4.8000e-004	0.0515	3.5000e-004	0.0519	0.0138	3.3000e-004	0.0141		47.9489	47.9489	9.7000e-004		47.9731
Total	**0.7198**	**23.6234**	**7.4815**	**0.0736**	**1.6735**	**0.0707**	**1.7441**	**0.4611**	**0.0676**	**0.5287**		**8,236.3436**	**8,236.3436**	**0.8818**		**8,258.3884**

3.8 Ground/Soil Improvement - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498		1,214.7998	1,214.7998	0.3929		1,224.6220
Total	**0.3888**	**3.9421**	**4.2791**	**0.0126**	**0.0000**	**0.1629**	**0.1629**	**0.0000**	**0.1498**	**0.1498**		**1,214.7998**	**1,214.7998**	**0.3929**		**1,224.6220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0194	0.0109	0.1306	4.8000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.3000e-004	0.0152		47.9489	47.9489	9.7000e-004		47.9731
Total	**0.0194**	**0.0109**	**0.1306**	**4.8000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.3000e-004**	**0.0152**		**47.9489**	**47.9489**	**9.7000e-004**		**47.9731**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498	0.0000	1,214.7998	1,214.7998	0.3929		1,224.6220
Total	**0.3888**	**3.9421**	**4.2791**	**0.0126**	**0.0000**	**0.1629**	**0.1629**	**0.0000**	**0.1498**	**0.1498**	**0.0000**	**1,214.7998**	**1,214.7998**	**0.3929**		**1,224.6220**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0194	0.0109	0.1306	4.8000e-004	0.0515	3.5000e-004	0.0519	0.0138	3.3000e-004	0.0141		47.9489	47.9489	9.7000e-004		47.9731
Total	**0.0194**	**0.0109**	**0.1306**	**4.8000e-004**	**0.0515**	**3.5000e-004**	**0.0519**	**0.0138**	**3.3000e-004**	**0.0141**		**47.9489**	**47.9489**	**9.7000e-004**		**47.9731**

3.9 Fine Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3058	14.9509	8.7188	0.0232		0.5472	0.5472		0.5035	0.5035		2,244.3885	2,244.3885	0.7259		2,262.5355
Total	**1.3058**	**14.9509**	**8.7188**	**0.0232**	**1.5908**	**0.5472**	**2.1380**	**0.1718**	**0.5035**	**0.6752**		**2,244.3885**	**2,244.3885**	**0.7259**		**2,262.5355**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2700e-003	0.1770	0.0538	4.8000e-004	0.0128	3.5000e-004	0.0131	3.6800e-003	3.4000e-004	4.0100e-003		51.9179	51.9179	4.2700e-003		52.0247
Worker	0.0310	0.0174	0.2089	7.7000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.2000e-004	0.0242		76.7183	76.7183	1.5500e-003		76.7570
Total	**0.0363**	**0.1944**	**0.2628**	**1.2500e-003**	**0.1022**	**9.2000e-004**	**0.1031**	**0.0274**	**8.6000e-004**	**0.0283**		**128.6362**	**128.6362**	**5.8200e-003**		**128.7817**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6801	0.0000	0.6801	0.0734	0.0000	0.0734			0.0000			0.0000
Off-Road	1.3058	14.9509	8.7188	0.0232		0.5472	0.5472		0.5035	0.5035	0.0000	2,244.3885	2,244.3885	0.7259		2,262.5355
Total	**1.3058**	**14.9509**	**8.7188**	**0.0232**	**0.6801**	**0.5472**	**1.2273**	**0.0734**	**0.5035**	**0.5769**	**0.0000**	**2,244.3885**	**2,244.3885**	**0.7259**		**2,262.5355**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2700e-003	0.1770	0.0538	4.8000e-004	0.0120	3.5000e-004	0.0123	3.4800e-003	3.4000e-004	3.8100e-003		51.9179	51.9179	4.2700e-003		52.0247
Worker	0.0310	0.0174	0.2089	7.7000e-004	0.0824	5.7000e-004	0.0830	0.0220	5.2000e-004	0.0225		76.7183	76.7183	1.5500e-003		76.7570
Total	**0.0363**	**0.1944**	**0.2628**	**1.2500e-003**	**0.0944**	**9.2000e-004**	**0.0953**	**0.0255**	**8.6000e-004**	**0.0263**		**128.6362**	**128.6362**	**5.8200e-003**		**128.7817**

3.10 Fine Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0226	0.0000	0.0226	3.4200e-003	0.0000	3.4200e-003			0.0000			0.0000
Off-Road	0.3050	3.1691	1.8965	7.9200e-003		0.1093	0.1093		0.1006	0.1006		766.9693	766.9693	0.2481		773.1707
Total	**0.3050**	**3.1691**	**1.8965**	**7.9200e-003**	**0.0226**	**0.1093**	**0.1320**	**3.4200e-003**	**0.1006**	**0.1040**		**766.9693**	**766.9693**	**0.2481**		**773.1707**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1751	5.9031	1.8377	0.0183	0.4352	0.0176	0.4528	0.1191	0.0168	0.1360		2,047.0987	2,047.0987	0.2202		2,052.6038
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0116	6.5200e-003	0.0784	2.9000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		28.7694	28.7694	5.8000e-004		28.7839
Total	**0.1867**	**5.9097**	**1.9161**	**0.0186**	**0.4688**	**0.0178**	**0.4866**	**0.1280**	**0.0170**	**0.1451**		**2,075.8680**	**2,075.8680**	**0.2208**		**2,081.3877**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.6700e-003	0.0000	9.6700e-003	1.4600e-003	0.0000	1.4600e-003			0.0000			0.0000
Off-Road	0.3050	3.1691	1.8965	7.9200e-003		0.1093	0.1093		0.1006	0.1006	0.0000	766.9693	766.9693	0.2481		773.1707
Total	**0.3050**	**3.1691**	**1.8965**	**7.9200e-003**	**9.6700e-003**	**0.1093**	**0.1190**	**1.4600e-003**	**0.1006**	**0.1021**	**0.0000**	**766.9693**	**766.9693**	**0.2481**		**773.1707**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1751	5.9031	1.8377	0.0183	0.4055	0.0176	0.4231	0.1118	0.0168	0.1287		2,047.0987	2,047.0987	0.2202		2,052.6038
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0116	6.5200e-003	0.0784	2.9000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		28.7694	28.7694	5.8000e-004		28.7839
Total	**0.1867**	**5.9097**	**1.9161**	**0.0186**	**0.4364**	**0.0178**	**0.4542**	**0.1201**	**0.0170**	**0.1371**		**2,075.8680**	**2,075.8680**	**0.2208**		**2,081.3877**

3.11 Utility Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0920	10.6939	11.4685	0.0271		0.4468	0.4468		0.4110	0.4110		2,622.7566	2,622.7566	0.8483		2,643.9629
Total	**1.0920**	**10.6939**	**11.4685**	**0.0271**		**0.4468**	**0.4468**		**0.4110**	**0.4110**		**2,622.7566**	**2,622.7566**	**0.8483**		**2,643.9629**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.0581**	**0.0326**	**0.3918**	**1.4400e-003**	**0.1677**	**1.0600e-003**	**0.1687**	**0.0445**	**9.8000e-004**	**0.0455**		**143.8468**	**143.8468**	**2.9000e-003**		**143.9194**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0920	10.6939	11.4685	0.0271		0.4468	0.4468		0.4110	0.4110	0.0000	2,622.7566	2,622.7566	0.8483		2,643.9629
Total	**1.0920**	**10.6939**	**11.4685**	**0.0271**		**0.4468**	**0.4468**		**0.4110**	**0.4110**	**0.0000**	**2,622.7566**	**2,622.7566**	**0.8483**		**2,643.9629**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1546	1.0600e-003	0.1556	0.0413	9.8000e-004	0.0422		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.0581**	**0.0326**	**0.3918**	**1.4400e-003**	**0.1546**	**1.0600e-003**	**0.1556**	**0.0413**	**9.8000e-004**	**0.0422**		**143.8468**	**143.8468**	**2.9000e-003**		**143.9194**

3.12 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.0000	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2160	7.2558	2.2069	0.0195	0.5239	0.0144	0.5383	0.1508	0.0138	0.1646		2,128.6322	2,128.6322	0.1753		2,133.0139
Worker	1.5333	0.8608	10.3427	0.0381	4.4264	0.0281	4.4544	1.1739	0.0259	1.1998		3,797.5560	3,797.5560	0.0766		3,799.4718
Total	**1.7493**	**8.1166**	**12.5496**	**0.0576**	**4.9502**	**0.0425**	**4.9928**	**1.3247**	**0.0397**	**1.3643**		**5,926.1881**	**5,926.1881**	**0.2519**		**5,932.4857**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2160	7.2558	2.2069	0.0195	0.4902	0.0144	0.5047	0.1425	0.0138	0.1563		2,128.6322	2,128.6322	0.1753		2,133.0139
Worker	1.5333	0.8608	10.3427	0.0381	4.0800	0.0281	4.1081	1.0889	0.0259	1.1147		3,797.5560	3,797.5560	0.0766		3,799.4718
Total	**1.7493**	**8.1166**	**12.5496**	**0.0576**	**4.5702**	**0.0425**	**4.6128**	**1.2314**	**0.0397**	**1.2710**		**5,926.1881**	**5,926.1881**	**0.2519**		**5,932.4857**

3.12 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1645	5.4616	2.0280	0.0189	0.5239	7.0200e-003	0.5309	0.1508	6.7100e-003	0.1575		2,064.8359	2,064.8359	0.1621		2,068.8873
Worker	1.4564	0.7814	9.6304	0.0366	4.4264	0.0276	4.4540	1.1739	0.0254	1.1993		3,651.7472	3,651.7472	0.0694		3,653.4832
Total	**1.6209**	**6.2430**	**11.6583**	**0.0555**	**4.9502**	**0.0346**	**4.9849**	**1.3247**	**0.0321**	**1.3568**		**5,716.5830**	**5,716.5830**	**0.2315**		**5,722.3705**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1645	5.4616	2.0280	0.0189	0.4902	7.0200e-003	0.4972	0.1425	6.7100e-003	0.1492		2,064.8359	2,064.8359	0.1621		2,068.8873
Worker	1.4564	0.7814	9.6304	0.0366	4.0800	0.0276	4.1076	1.0889	0.0254	1.1143		3,651.7472	3,651.7472	0.0694		3,653.4832
Total	**1.6209**	**6.2430**	**11.6583**	**0.0555**	**4.5702**	**0.0346**	**4.6049**	**1.2314**	**0.0321**	**1.2635**		**5,716.5830**	**5,716.5830**	**0.2315**		**5,722.3705**

3.12 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1589	5.3939	1.9845	0.0187	0.5239	6.8400e-003	0.5307	0.1508	6.5300e-003	0.1573		2,048.6875	2,048.6875	0.1593		2,052.6712

Worker	1.3887	0.7115	8.9554	0.0352	4.4264	0.0271	4.4535	1.1739	0.0250	1.1989		3,507.0793	3,507.0793	0.0630		3,508.6542
Total	**1.5476**	**6.1053**	**10.9398**	**0.0539**	**4.9502**	**0.0340**	**4.9842**	**1.3246**	**0.0315**	**1.3562**		**5,555.7668**	**5,555.7668**	**0.2223**		**5,561.3254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1589	5.3939	1.9845	0.0187	0.4902	6.8400e-003	0.4971	0.1425	6.5300e-003	0.1490		2,048.6875	2,048.6875	0.1593		2,052.6712
Worker	1.3887	0.7115	8.9554	0.0352	4.0800	0.0271	4.1072	1.0889	0.0250	1.1139		3,507.0793	3,507.0793	0.0630		3,508.6542
Total	**1.5476**	**6.1053**	**10.9398**	**0.0539**	**4.5702**	**0.0340**	**4.6042**	**1.2314**	**0.0315**	**1.2629**		**5,555.7668**	**5,555.7668**	**0.2223**		**5,561.3254**

3.13 Finishing/Landscaping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636		500.2654	500.2654	0.1618		504.3103
Total	**0.1803**	**1.4029**	**3.2650**	**5.1700e-003**		**0.0691**	**0.0691**		**0.0636**	**0.0636**		**500.2654**	**500.2654**	**0.1618**		**504.3103**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0105	5.3900e-003	0.0678	2.7000e-004	0.0335	2.1000e-004	0.0337	8.8900e-003	1.9000e-004	9.0800e-003		26.5688	26.5688	4.8000e-004		26.5807
Total	**0.0105**	**5.3900e-003**	**0.0678**	**2.7000e-004**	**0.0335**	**2.1000e-004**	**0.0337**	**8.8900e-003**	**1.9000e-004**	**9.0800e-003**		**26.5688**	**26.5688**	**4.8000e-004**		**26.5807**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636	0.0000	500.2654	500.2654	0.1618		504.3103
Total	**0.1803**	**1.4029**	**3.2650**	**5.1700e-003**		**0.0691**	**0.0691**		**0.0636**	**0.0636**	**0.0000**	**500.2654**	**500.2654**	**0.1618**		**504.3103**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0105	5.3900e-003	0.0678	2.7000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	1.9000e-004	8.4400e-003		26.5688	26.5688	4.8000e-004		26.5807
Total	**0.0105**	**5.3900e-003**	**0.0678**	**2.7000e-004**	**0.0309**	**2.1000e-004**	**0.0311**	**8.2500e-003**	**1.9000e-004**	**8.4400e-003**		**26.5688**	**26.5688**	**4.8000e-004**		**26.5807**

3.14 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9143**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**		**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0359	0.4523	1.7800e-003	0.2236	1.3700e-003	0.2249	0.0593	1.2600e-003	0.0606		177.1252	177.1252	3.1800e-003		177.2048
Total	**0.0701**	**0.0359**	**0.4523**	**1.7800e-003**	**0.2236**	**1.3700e-003**	**0.2249**	**0.0593**	**1.2600e-003**	**0.0606**		**177.1252**	**177.1252**	**3.1800e-003**		**177.2048**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9143**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**	**0.0000**	**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0359	0.4523	1.7800e-003	0.2061	1.3700e-003	0.2074	0.0550	1.2600e-003	0.0563		177.1252	177.1252	3.1800e-003		177.2048
Total	**0.0701**	**0.0359**	**0.4523**	**1.7800e-003**	**0.2061**	**1.3700e-003**	**0.2074**	**0.0550**	**1.2600e-003**	**0.0563**		**177.1252**	**177.1252**	**3.1800e-003**		**177.2048**

3.15 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	137.0581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**137.2389**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2771	0.1419	1.7866	7.0100e-003	0.8830	5.4100e-003	0.8885	0.2342	4.9800e-003	0.2392		699.6446	699.6446	0.0126		699.9588
Total	**0.2771**	**0.1419**	**1.7866**	**7.0100e-003**	**0.8830**	**5.4100e-003**	**0.8885**	**0.2342**	**4.9800e-003**	**0.2392**		**699.6446**	**699.6446**	**0.0126**		**699.9588**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	137.0581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**137.2389**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2771	0.1419	1.7866	7.0100e-003	0.8139	5.4100e-003	0.8194	0.2172	4.9800e-003	0.2222		699.6446	699.6446	0.0126		699.9588
Total	**0.2771**	**0.1419**	**1.7866**	**7.0100e-003**	**0.8139**	**5.4100e-003**	**0.8194**	**0.2172**	**4.9800e-003**	**0.2222**		**699.6446**	**699.6446**	**0.0126**		**699.9588**

The Hub Fullerton Construction Run - Orange County, Annual

The Hub Fullerton Construction Run

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	68.46	1000sqft	1.57	68,464.00	0
Parking Lot	145.95	1000sqft	0.44	145,952.00	0
Apartments Mid Rise	420.00	Dwelling Unit	1.21	471,522.00	1201
Regional Shopping Center	12.44	1000sqft	0.29	12,438.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - based on info from applicant

Construction Phase - based on info from applicant

Off-road Equipment -

Off-road Equipment - No additional equipment for Demolition Debris Haul

Off-road Equipment - no additional equipment for debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - provided equipment from applicant would be electric

Off-road Equipment - no additional equipment for demo debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - proxy for geopier equipment

Off-road Equipment -

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Trips and VMT - 2 water trucks/vt/day, based on soil haul and demo info from applicant

Demolition -

Grading -

Architectural Coating - based on info from applicant, see assumptions file for calculations

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	6,219.00	36,799.00
tblArchitecturalCoating	ConstArea_Parking	12,865.00	8,757.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	318,277.00	15,914.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	100.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	230.00	435.00

tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	NumDays	5.00	10.00
tblGrading	MaterialExported	0.00	8,000.00
tblGrading	MaterialExported	0.00	2,000.00
tblLandUse	LandUseSquareFeet	68,460.00	68,464.00
tblLandUse	LandUseSquareFeet	145,950.00	145,952.00
tblLandUse	LandUseSquareFeet	420,000.00	471,522.00
tblLandUse	LandUseSquareFeet	12,440.00	12,438.00
tblLandUse	LotAcreage	3.35	0.44
tblLandUse	LotAcreage	11.05	1.21
tblOffRoadEquipment	HorsePower	158.00	307.00
tblOffRoadEquipment	HorsePower	158.00	424.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	247.00	405.00
tblOffRoadEquipment	HorsePower	247.00	215.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	158.00	265.00
tblOffRoadEquipment	HorsePower	158.00	41.00
tblOffRoadEquipment	HorsePower	8.00	157.00

tblOffRoadEquipment	HorsePower	8.00	157.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	65.00	90.00
tblOffRoadEquipment	HorsePower	65.00	73.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	HorsePower	97.00	241.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	109.00
tblOffRoadEquipment	HorsePower	97.00	197.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	HaulingTripNumber	277.00	280.00
tblTripsAndVMT	HaulingTripNumber	326.00	330.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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					
2022	0.1799	1.4831	1.5101	6.1800e-003	0.4400	0.0323	0.4723	0.1154	0.0298	0.1452	0.0000	572.3095	572.3095	0.0730	0.0000	574.1339
2023	0.1900	0.8250	1.5389	7.3200e-003	0.6323	4.4700e-003	0.6367	0.1694	4.1500e-003	0.1736	0.0000	684.2485	684.2485	0.0270	0.0000	684.9237
2024	2.4645	0.3694	0.6662	2.1100e-003	0.1464	0.0109	0.1573	0.0392	0.0102	0.0494	0.0000	193.4136	193.4136	0.0188	0.0000	193.8824
Maximum	**2.4645**	**1.4831**	**1.5389**	**7.3200e-003**	**0.6323**	**0.0323**	**0.6367**	**0.1694**	**0.0298**	**0.1736**	**0.0000**	**684.2485**	**684.2485**	**0.0730**	**0.0000**	**684.9237**

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					
2022	0.1799	1.4831	1.5101	6.1800e-003	0.3484	0.0323	0.3807	0.0929	0.0298	0.1227	0.0000	572.3093	572.3093	0.0730	0.0000	574.1337
2023	0.1900	0.8250	1.5389	7.3200e-003	0.5839	4.4700e-003	0.5883	0.1576	4.1500e-003	0.1617	0.0000	684.2485	684.2485	0.0270	0.0000	684.9237
2024	2.4645	0.3694	0.6662	2.1100e-003	0.1351	0.0109	0.1461	0.0364	0.0102	0.0466	0.0000	193.4136	193.4136	0.0188	0.0000	193.8823
Maximum	**2.4645**	**1.4831**	**1.5389**	**7.3200e-003**	**0.5839**	**0.0323**	**0.5883**	**0.1576**	**0.0298**	**0.1617**	**0.0000**	**684.2485**	**684.2485**	**0.0730**	**0.0000**	**684.9237**

	ROG	NOx	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**	**12.41**	**0.00**	**11.94**	**11.47**	**0.00**	**10.09**	**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	12-29-2021	3-28-2022	0.2841	0.2841
2	3-29-2022	6-28-2022	0.9080	0.9080
3	6-29-2022	9-28-2022	0.3273	0.3273
4	9-29-2022	12-28-2022	0.3205	0.3205
5	12-29-2022	3-28-2023	0.2549	0.2549
6	3-29-2023	6-28-2023	0.2513	0.2513
7	6-29-2023	9-28-2023	0.2510	0.2510
8	9-29-2023	12-28-2023	0.2554	0.2554
9	12-29-2023	3-28-2024	2.8422	2.8422
		Highest	2.8422	2.8422

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building and Asphalt Demolition and Demolition Reprocessing	Demolition	1/1/2022	3/4/2022	5	45	a
2	Building Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	b
3	Asphalt Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	c
4	Site Preparation	Site Preparation	3/24/2022	4/6/2022	5	10	d
5	Rough Grading	Grading	4/7/2022	4/20/2022	5	10	e
6	Rough Grading Soil Haul	Grading	4/7/2022	4/20/2022	5	10	f
7	Ground/Soil Improvement	Site Preparation	4/13/2022	6/7/2022	5	40	g
8	Fine Grading	Grading	5/31/2022	6/13/2022	5	10	h
9	Fine Grading Soil Haul	Grading	5/31/2022	6/13/2022	5	10	i
10	Utility Trenching	Trenching	6/14/2022	7/12/2022	5	21	j
11	Building Construction	Building Construction	7/13/2022	3/12/2024	5	435	k
12	Finishing/Landscaping	Trenching	1/10/2024	3/26/2024	5	55	l
13	Paving	Paving	1/24/2024	3/12/2024	5	35	m
14	Architectural Coating	Architectural Coating	1/24/2024	3/12/2024	5	35	n

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.01

Residential Indoor: 954,832; Residential Outdoor: 15,914; Non-Residential Indoor: 18,657; Non-Residential Outdoor: 36,799; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building and Asphalt Demolition and Demolition Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building and Asphalt Demolition and Demolition Reprocessing	Excavators	2	8.00	307	0.38

Building and Asphalt Demolition and Demolition Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Building and Asphalt Demolition and Demolition Reprocessing	Skid Steer Loaders	1	8.00	73	0.37
Building and Asphalt Demolition and Demolition Reprocessing	Tractors/Loaders/Backhoes	1	8.00	197	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Skid Steer Loaders	1	8.00	74	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	179	0.41
Rough Grading	Plate Compactors	1	8.00	157	0.43
Rough Grading	Rubber Tired Dozers	1	8.00	405	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	215	0.40
Rough Grading	Scrapers	2	8.00	407	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	424	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Ground/Soil Improvement	Bore/Drill Rigs	1	8.00	221	0.50
Ground/Soil Improvement	Rubber Tired Dozers	0	8.00	247	0.40
Ground/Soil Improvement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	1	8.00	179	0.41

Fine Grading	Plate Compactors	1	8.00	157	0.43
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	407	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Fine Grading Soil Haul	Excavators	0	8.00	158	0.38
Fine Grading Soil Haul	Graders	0	8.00	187	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Utility Trenching	Excavators	1	8.00	265	0.38
Utility Trenching	Excavators	1	8.00	41	0.38
Utility Trenching	Skid Steer Loaders	1	8.00	90	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	241	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	109	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Finishing/Landscaping	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building and Asphalt Demolition and	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	330.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	2	5.00	0.00	1,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ground/Soil Improvement	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	1	3.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	396.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	79.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building and Asphalt Demolition and Demolition

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0190	0.1759	0.1669	6.4000e-004		6.0400e-003	6.0400e-003		5.5600e-003	5.5600e-003	0.0000	56.3834	56.3834	0.0182	0.0000	56.8393
Total	**0.0190**	**0.1759**	**0.1669**	**6.4000e-004**		**6.0400e-003**	**6.0400e-003**		**5.5600e-003**	**5.5600e-003**	**0.0000**	**56.3834**	**56.3834**	**0.0182**	**0.0000**	**56.8393**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	4.0500e-003	1.1600e-003	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0753	1.0753	9.0000e-005	0.0000	1.0774
Worker	7.8000e-004	5.0000e-004	6.0300e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9873	1.9873	4.0000e-005	0.0000	1.9883
Total	**9.0000e-004**	**4.5500e-003**	**7.1900e-003**	**3.0000e-005**	**2.7500e-003**	**3.0000e-005**	**2.7800e-003**	**7.4000e-004**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**3.0625**	**3.0625**	**1.3000e-004**	**0.0000**	**3.0657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0190	0.1759	0.1669	6.4000e-004		6.0400e-003	6.0400e-003		5.5600e-003	5.5600e-003	0.0000	56.3833	56.3833	0.0182	0.0000	56.8392

Total	**0.0190**	**0.1759**	**0.1669**	**6.4000e-004**		**6.0400e-003**	**6.0400e-003**		**5.5600e-003**	**5.5600e-003**	**0.0000**	**56.3833**	**56.3833**	**0.0182**	**0.0000**	**56.8392**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	4.0500e-003	1.1600e-003	1.0000e-005	2.7000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0753	1.0753	9.0000e-005	0.0000	1.0774
Worker	7.8000e-004	5.0000e-004	6.0300e-003	2.0000e-005	2.2800e-003	2.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9873	1.9873	4.0000e-005	0.0000	1.9883
Total	**9.0000e-004**	**4.5500e-003**	**7.1900e-003**	**3.0000e-005**	**2.5500e-003**	**3.0000e-005**	**2.5600e-003**	**6.9000e-004**	**2.0000e-005**	**7.0000e-004**	**0.0000**	**3.0625**	**3.0625**	**1.3000e-004**	**0.0000**	**3.0657**

3.3 Building Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0300	0.0000	0.0300	4.5400e-003	0.0000	4.5400e-003	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**	**0.0300**	**0.0000**	**0.0300**	**4.5400e-003**	**0.0000**	**4.5400e-003**	**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	9.7000e-004	0.0337	0.0100	1.0000e-004	2.4000e-003	1.0000e-004	2.5000e-003	6.6000e-004	9.0000e-005	7.5000e-004	0.0000	10.4932	10.4932	1.1100e-003	0.0000	10.5208
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	**9.7000e-004**	**0.0337**	**0.0100**	**1.0000e-004**	**2.4000e-003**	**1.0000e-004**	**2.5000e-003**	**6.6000e-004**	**9.0000e-005**	**7.5000e-004**	**0.0000**	**10.4932**	**10.4932**	**1.1100e-003**	**0.0000**	**10.5208**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0128	0.0000	0.0128	1.9400e-003	0.0000	1.9400e-003	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**	**0.0128**	**0.0000**	**0.0128**	**1.9400e-003**	**0.0000**	**1.9400e-003**	**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	9.7000e-004	0.0337	0.0100	1.0000e-004	2.2400e-003	1.0000e-004	2.3300e-003	6.2000e-004	9.0000e-005	7.1000e-004	0.0000	10.4932	10.4932	1.1100e-003	0.0000	10.5208
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	**9.7000e-004**	**0.0337**	**0.0100**	**1.0000e-004**	**2.2400e-003**	**1.0000e-004**	**2.3300e-003**	**6.2000e-004**	**9.0000e-005**	**7.1000e-004**	**0.0000**	**10.4932**	**10.4932**	**1.1100e-003**	**0.0000**	**10.5208**

3.4 Asphalt Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0352	0.0000	0.0352	5.3300e-003	0.0000	5.3300e-003	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**	**0.0352**	**0.0000**	**0.0352**	**5.3300e-003**	**0.0000**	**5.3300e-003**	**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	1.1400e-003	0.0397	0.0118	1.2000e-004	2.8300e-003	1.1000e-004	2.9400e-003	7.8000e-004	1.1000e-004	8.9000e-004	0.0000	12.3669	12.3669	1.3000e-003	0.0000	12.3995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	**1.1400e-003**	**0.0397**	**0.0118**	**1.2000e-004**	**2.8300e-003**	**1.1000e-004**	**2.9400e-003**	**7.8000e-004**	**1.1000e-004**	**8.9000e-004**	**0.0000**	**12.3669**	**12.3669**	**1.3000e-003**	**0.0000**	**12.3995**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0151	0.0000	0.0151	2.2800e-003	0.0000	2.2800e-003	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**	**0.0151**	**0.0000**	**0.0151**	**2.2800e-003**	**0.0000**	**2.2800e-003**	**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	1.1400e-003	0.0397	0.0118	1.2000e-004	2.6400e-003	1.1000e-004	2.7500e-003	7.3000e-004	1.1000e-004	8.4000e-004	0.0000	12.3669	12.3669	1.3000e-003	0.0000	12.3995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	**1.1400e-003**	**0.0397**	**0.0118**	**1.2000e-004**	**2.6400e-003**	**1.1000e-004**	**2.7500e-003**	**7.3000e-004**	**1.1000e-004**	**8.4000e-004**	**0.0000**	**12.3669**	**12.3669**	**1.3000e-003**	**0.0000**	**12.3995**

3.5 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0231	0.0405	6.0000e-005		1.0600e-003	1.0600e-003		9.7000e-004	9.7000e-004	0.0000	5.5709	5.5709	1.8000e-003	0.0000	5.6159
Total	**2.4200e-003**	**0.0231**	**0.0405**	**6.0000e-005**	**0.0000**	**1.0600e-003**	**1.0600e-003**	**0.0000**	**9.7000e-004**	**9.7000e-004**	**0.0000**	**5.5709**	**5.5709**	**1.8000e-003**	**0.0000**	**5.6159**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.0000e-004	2.6000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2390	0.2390	2.0000e-005	0.0000	0.2394
Worker	1.4000e-004	9.0000e-005	1.0700e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3533	0.3533	1.0000e-005	0.0000	0.3535
Total	**1.7000e-004**	**9.9000e-004**	**1.3300e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.0000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.5922**	**0.5922**	**3.0000e-005**	**0.0000**	**0.5929**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0231	0.0405	6.0000e-005		1.0600e-003	1.0600e-003		9.7000e-004	9.7000e-004	0.0000	5.5709	5.5709	1.8000e-003	0.0000	5.6159
Total	**2.4200e-003**	**0.0231**	**0.0405**	**6.0000e-005**	**0.0000**	**1.0600e-003**	**1.0600e-003**	**0.0000**	**9.7000e-004**	**9.7000e-004**	**0.0000**	**5.5709**	**5.5709**	**1.8000e-003**	**0.0000**	**5.6159**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.0000e-004	2.6000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2390	0.2390	2.0000e-005	0.0000	0.2394
Worker	1.4000e-004	9.0000e-005	1.0700e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3533	0.3533	1.0000e-005	0.0000	0.3535
Total	**1.7000e-004**	**9.9000e-004**	**1.3300e-003**	**0.0000**	**4.6000e-004**	**0.0000**	**4.7000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.5922**	**0.5922**	**3.0000e-005**	**0.0000**	**0.5929**

3.6 Rough Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0434	0.0000	0.0434	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0215	0.2313	0.1502	3.1000e-004		9.6300e-003	9.6300e-003		8.8600e-003	8.8600e-003	0.0000	27.0536	27.0536	8.7500e-003	0.0000	27.2724
Total	**0.0215**	**0.2313**	**0.1502**	**3.1000e-004**	**0.0434**	**9.6300e-003**	**0.0530**	**0.0180**	**8.8600e-003**	**0.0268**	**0.0000**	**27.0536**	**27.0536**	**8.7500e-003**	**0.0000**	**27.2724**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.0000e-004	2.6000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2390	0.2390	2.0000e-005	0.0000	0.2394
Worker	2.6000e-004	1.7000e-004	2.0100e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6624	0.6624	1.0000e-005	0.0000	0.6628
Total	**2.9000e-004**	**1.0700e-003**	**2.2700e-003**	**1.0000e-005**	**8.8000e-004**	**1.0000e-005**	**8.9000e-004**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**0.9014**	**0.9014**	**3.0000e-005**	**0.0000**	**0.9022**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0185	0.0000	0.0185	7.6900e-003	0.0000	7.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0215	0.2313	0.1502	3.1000e-004		9.6300e-003	9.6300e-003		8.8600e-003	8.8600e-003	0.0000	27.0536	27.0536	8.7500e-003	0.0000	27.2723
Total	**0.0215**	**0.2313**	**0.1502**	**3.1000e-004**	**0.0185**	**9.6300e-003**	**0.0282**	**7.6900e-003**	**8.8600e-003**	**0.0166**	**0.0000**	**27.0536**	**27.0536**	**8.7500e-003**	**0.0000**	**27.2723**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.0000e-004	2.6000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2390	0.2390	2.0000e-005	0.0000	0.2394
Worker	2.6000e-004	1.7000e-004	2.0100e-003	1.0000e-005	7.6000e-004	1.0000e-005	7.6000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6624	0.6624	1.0000e-005	0.0000	0.6628
Total	**2.9000e-004**	**1.0700e-003**	**2.2700e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.2000e-004**	**2.2000e-004**	**0.0000**	**2.3000e-004**	**0.0000**	**0.9014**	**0.9014**	**3.0000e-005**	**0.0000**	**0.9022**

3.7 Rough Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.5000e-004	0.0000	4.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3400e-003	0.0306	0.0246	1.1000e-004		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	9.5333	9.5333	3.0800e-003	0.0000	9.6104
Total	**3.3400e-003**	**0.0306**	**0.0246**	**1.1000e-004**	**4.5000e-004**	**1.0400e-003**	**1.4900e-003**	**7.0000e-005**	**9.6000e-004**	**1.0300e-003**	**0.0000**	**9.5333**	**9.5333**	**3.0800e-003**	**0.0000**	**9.6104**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4500e-003	0.1203	0.0358	3.7000e-004	8.5700e-003	3.5000e-004	8.9200e-003	2.3500e-003	3.3000e-004	2.6800e-003	0.0000	37.4755	37.4755	3.9500e-003	0.0000	37.5743
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	6.7000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2208	0.2208	0.0000	0.0000	0.2209
Total	**3.5400e-003**	**0.1204**	**0.0365**	**3.7000e-004**	**8.8400e-003**	**3.5000e-004**	**9.2000e-003**	**2.4200e-003**	**3.3000e-004**	**2.7500e-003**	**0.0000**	**37.6963**	**37.6963**	**3.9500e-003**	**0.0000**	**37.7952**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9000e-004	0.0000	1.9000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3400e-003	0.0306	0.0246	1.1000e-004		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	9.5333	9.5333	3.0800e-003	0.0000	9.6104
Total	**3.3400e-003**	**0.0306**	**0.0246**	**1.1000e-004**	**1.9000e-004**	**1.0400e-003**	**1.2300e-003**	**3.0000e-005**	**9.6000e-004**	**9.9000e-004**	**0.0000**	**9.5333**	**9.5333**	**3.0800e-003**	**0.0000**	**9.6104**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4500e-003	0.1203	0.0358	3.7000e-004	7.9900e-003	3.5000e-004	8.3300e-003	2.2100e-003	3.3000e-004	2.5400e-003	0.0000	37.4755	37.4755	3.9500e-003	0.0000	37.5743
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	6.7000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2208	0.2208	0.0000	0.0000	0.2209
Total	**3.5400e-003**	**0.1204**	**0.0365**	**3.7000e-004**	**8.2400e-003**	**3.5000e-004**	**8.5800e-003**	**2.2800e-003**	**3.3000e-004**	**2.6100e-003**	**0.0000**	**37.6963**	**37.6963**	**3.9500e-003**	**0.0000**	**37.7952**

3.8 Ground/Soil Improvement - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.7800e-003	0.0788	0.0856	2.5000e-004		3.2600e-003	3.2600e-003		3.0000e-003	3.0000e-003	0.0000	22.0410	22.0410	7.1300e-003	0.0000	22.2192
Total	**7.7800e-003**	**0.0788**	**0.0856**	**2.5000e-004**	**0.0000**	**3.2600e-003**	**3.2600e-003**	**0.0000**	**3.0000e-003**	**3.0000e-003**	**0.0000**	**22.0410**	**22.0410**	**7.1300e-003**	**0.0000**	**22.2192**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.2000e-004	2.6800e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8832	0.8832	2.0000e-005	0.0000	0.8837
Total	**3.5000e-004**	**2.2000e-004**	**2.6800e-003**	**1.0000e-005**	**1.1000e-003**	**1.0000e-005**	**1.1000e-003**	**2.9000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**0.8832**	**0.8832**	**2.0000e-005**	**0.0000**	**0.8837**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.7800e-003	0.0788	0.0856	2.5000e-004		3.2600e-003	3.2600e-003		3.0000e-003	3.0000e-003	0.0000	22.0409	22.0409	7.1300e-003	0.0000	22.2191
Total	**7.7800e-003**	**0.0788**	**0.0856**	**2.5000e-004**	**0.0000**	**3.2600e-003**	**3.2600e-003**	**0.0000**	**3.0000e-003**	**3.0000e-003**	**0.0000**	**22.0409**	**22.0409**	**7.1300e-003**	**0.0000**	**22.2191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.2000e-004	2.6800e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0200e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8832	0.8832	2.0000e-005	0.0000	0.8837

Total	**3.5000e-004**	**2.2000e-004**	**2.6800e-003**	**1.0000e-005**	**1.0100e-003**	**1.0000e-005**	**1.0200e-003**	**2.7000e-004**	**1.0000e-005**	**2.8000e-004**	**0.0000**	**0.8832**	**0.8832**	**2.0000e-005**	**0.0000**	**0.8837**

3.9 Fine Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.9500e-003	0.0000	7.9500e-003	8.6000e-004	0.0000	8.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5300e-003	0.0748	0.0436	1.2000e-004		2.7400e-003	2.7400e-003		2.5200e-003	2.5200e-003	0.0000	10.1804	10.1804	3.2900e-003	0.0000	10.2627
Total	**6.5300e-003**	**0.0748**	**0.0436**	**1.2000e-004**	**7.9500e-003**	**2.7400e-003**	**0.0107**	**8.6000e-004**	**2.5200e-003**	**3.3800e-003**	**0.0000**	**10.1804**	**10.1804**	**3.2900e-003**	**0.0000**	**10.2627**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.0000e-004	2.6000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2390	0.2390	2.0000e-005	0.0000	0.2394
Worker	1.4000e-004	9.0000e-005	1.0700e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3533	0.3533	1.0000e-005	0.0000	0.3535
Total	**1.7000e-004**	**9.9000e-004**	**1.3300e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.0000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.5922**	**0.5922**	**3.0000e-005**	**0.0000**	**0.5929**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.4000e-003	0.0000	3.4000e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5300e-003	0.0748	0.0436	1.2000e-004		2.7400e-003	2.7400e-003		2.5200e-003	2.5200e-003	0.0000	10.1804	10.1804	3.2900e-003	0.0000	10.2627
Total	**6.5300e-003**	**0.0748**	**0.0436**	**1.2000e-004**	**3.4000e-003**	**2.7400e-003**	**6.1400e-003**	**3.7000e-004**	**2.5200e-003**	**2.8900e-003**	**0.0000**	**10.1804**	**10.1804**	**3.2900e-003**	**0.0000**	**10.2627**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.0000e-004	2.6000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2390	0.2390	2.0000e-005	0.0000	0.2394
Worker	1.4000e-004	9.0000e-005	1.0700e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3533	0.3533	1.0000e-005	0.0000	0.3535
Total	**1.7000e-004**	**9.9000e-004**	**1.3300e-003**	**0.0000**	**4.6000e-004**	**0.0000**	**4.7000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.5922**	**0.5922**	**3.0000e-005**	**0.0000**	**0.5929**

3.10 Fine Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0159	9.4800e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	3.4789	3.4789	1.1300e-003	0.0000	3.5070
Total	**1.5300e-003**	**0.0159**	**9.4800e-003**	**4.0000e-005**	**1.1000e-004**	**5.5000e-004**	**6.6000e-004**	**2.0000e-005**	**5.0000e-004**	**5.2000e-004**	**0.0000**	**3.4789**	**3.4789**	**1.1300e-003**	**0.0000**	**3.5070**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.6000e-004	0.0301	8.9600e-003	9.0000e-005	2.1400e-003	9.0000e-005	2.2300e-003	5.9000e-004	8.0000e-005	6.7000e-004	0.0000	9.3689	9.3689	9.9000e-004	0.0000	9.3936
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	4.0000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1325	0.1325	0.0000	0.0000	0.1326
Total	**9.1000e-004**	**0.0301**	**9.3600e-003**	**9.0000e-005**	**2.3000e-003**	**9.0000e-005**	**2.4000e-003**	**6.3000e-004**	**8.0000e-005**	**7.1000e-004**	**0.0000**	**9.5014**	**9.5014**	**9.9000e-004**	**0.0000**	**9.5261**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	1.5300e-003	0.0159	9.4800e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	3.4789	3.4789	1.1300e-003	0.0000	3.5070
Total	**1.5300e-003**	**0.0159**	**9.4800e-003**	**4.0000e-005**	**5.0000e-005**	**5.5000e-004**	**6.0000e-004**	**1.0000e-005**	**5.0000e-004**	**5.1000e-004**	**0.0000**	**3.4789**	**3.4789**	**1.1300e-003**	**0.0000**	**3.5070**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.6000e-004	0.0301	8.9600e-003	9.0000e-005	2.0000e-003	9.0000e-005	2.0800e-003	5.5000e-004	8.0000e-005	6.3000e-004	0.0000	9.3689	9.3689	9.9000e-004	0.0000	9.3936
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	4.0000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1325	0.1325	0.0000	0.0000	0.1326
Total	**9.1000e-004**	**0.0301**	**9.3600e-003**	**9.0000e-005**	**2.1500e-003**	**9.0000e-005**	**2.2300e-003**	**5.9000e-004**	**8.0000e-005**	**6.7000e-004**	**0.0000**	**9.5014**	**9.5014**	**9.9000e-004**	**0.0000**	**9.5261**

3.11 Utility Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0115	0.1123	0.1204	2.8000e-004		4.6900e-003	4.6900e-003		4.3200e-003	4.3200e-003	0.0000	24.9829	24.9829	8.0800e-003	0.0000	25.1849
Total	**0.0115**	**0.1123**	**0.1204**	**2.8000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3200e-003**	**4.3200e-003**	**0.0000**	**24.9829**	**24.9829**	**8.0800e-003**	**0.0000**	**25.1849**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.5000e-004	4.2200e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3911	1.3911	3.0000e-005	0.0000	1.3918
Total	**5.5000e-004**	**3.5000e-004**	**4.2200e-003**	**2.0000e-005**	**1.7300e-003**	**1.0000e-005**	**1.7400e-003**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**1.3911**	**1.3911**	**3.0000e-005**	**0.0000**	**1.3918**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0115	0.1123	0.1204	2.8000e-004		4.6900e-003	4.6900e-003		4.3200e-003	4.3200e-003	0.0000	24.9829	24.9829	8.0800e-003	0.0000	25.1849
Total	**0.0115**	**0.1123**	**0.1204**	**2.8000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3200e-003**	**4.3200e-003**	**0.0000**	**24.9829**	**24.9829**	**8.0800e-003**	**0.0000**	**25.1849**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.5000e-004	4.2200e-003	2.0000e-005	1.5900e-003	1.0000e-005	1.6100e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.3911	1.3911	3.0000e-005	0.0000	1.3918
Total	**5.5000e-004**	**3.5000e-004**	**4.2200e-003**	**2.0000e-005**	**1.5900e-003**	**1.0000e-005**	**1.6100e-003**	**4.3000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.3911**	**1.3911**	**3.0000e-005**	**0.0000**	**1.3918**

3.12 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.4541	0.1299	1.2200e-003	0.0318	8.7000e-004	0.0326	9.1600e-003	8.3000e-004	9.9900e-003	0.0000	120.5019	120.5019	9.5300e-003	0.0000	120.7403
Worker	0.0844	0.0544	0.6522	2.3800e-003	0.2674	1.7300e-003	0.2691	0.0710	1.5900e-003	0.0726	0.0000	215.1026	215.1026	4.3400e-003	0.0000	215.2112
Total	**0.0974**	**0.5084**	**0.7822**	**3.6000e-003**	**0.2991**	**2.6000e-003**	**0.3017**	**0.0802**	**2.4200e-003**	**0.0826**	**0.0000**	**335.6046**	**335.6046**	**0.0139**	**0.0000**	**335.9515**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.4541	0.1299	1.2200e-003	0.0297	8.7000e-004	0.0306	8.6600e-003	8.3000e-004	9.4900e-003	0.0000	120.5019	120.5019	9.5300e-003	0.0000	120.7403
Worker	0.0844	0.0544	0.6522	2.3800e-003	0.2465	1.7300e-003	0.2482	0.0659	1.5900e-003	0.0675	0.0000	215.1026	215.1026	4.3400e-003	0.0000	215.2112

Total	**0.0974**	**0.5084**	**0.7822**	**3.6000e-003**	**0.2762**	**2.6000e-003**	**0.2788**	**0.0745**	**2.4200e-003**	**0.0770**	**0.0000**	**335.6046**	**335.6046**	**0.0139**	**0.0000**	**335.9515**

3.12 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0208	0.7207	0.2547	2.4900e-003	0.0671	8.8000e-004	0.0680	0.0194	8.4000e-004	0.0202	0.0000	247.0241	247.0241	0.0187	0.0000	247.4914
Worker	0.1692	0.1043	1.2842	4.8300e-003	0.5652	3.5900e-003	0.5687	0.1501	3.3000e-003	0.1534	0.0000	437.2243	437.2243	8.3200e-003	0.0000	437.4323
Total	**0.1900**	**0.8250**	**1.5389**	**7.3200e-003**	**0.6323**	**4.4700e-003**	**0.6367**	**0.1694**	**4.1400e-003**	**0.1736**	**0.0000**	**684.2485**	**684.2485**	**0.0270**	**0.0000**	**684.9237**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0208	0.7207	0.2547	2.4900e-003	0.0628	8.8000e-004	0.0637	0.0183	8.4000e-004	0.0191	0.0000	247.0241	247.0241	0.0187	0.0000	247.4914
Worker	0.1692	0.1043	1.2842	4.8300e-003	0.5211	3.5900e-003	0.5246	0.1393	3.3000e-003	0.1426	0.0000	437.2243	437.2243	8.3200e-003	0.0000	437.4323
Total	**0.1900**	**0.8250**	**1.5389**	**7.3200e-003**	**0.5839**	**4.4700e-003**	**0.5883**	**0.1576**	**4.1400e-003**	**0.1617**	**0.0000**	**684.2485**	**684.2485**	**0.0270**	**0.0000**	**684.9237**

3.12 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0200e-003	0.1423	0.0499	4.9000e-004	0.0134	1.7000e-004	0.0136	3.8700e-003	1.6000e-004	4.0400e-003	0.0000	49.0149	49.0149	3.6800e-003	0.0000	49.1069
Worker	0.0322	0.0190	0.2389	9.3000e-004	0.1130	7.1000e-004	0.1137	0.0300	6.5000e-004	0.0307	0.0000	83.9804	83.9804	1.5100e-003	0.0000	84.0181
Total	**0.0362**	**0.1613**	**0.2887**	**1.4200e-003**	**0.1265**	**8.8000e-004**	**0.1273**	**0.0339**	**8.1000e-004**	**0.0347**	**0.0000**	**132.9952**	**132.9952**	**5.1900e-003**	**0.0000**	**133.1250**

Mitigated Construction On-Site

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

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0200e-003	0.1423	0.0499	4.9000e-004	0.0126	1.7000e-004	0.0127	3.6600e-003	1.6000e-004	3.8200e-003	0.0000	49.0149	49.0149	3.6800e-003	0.0000	49.1069
Worker	0.0322	0.0190	0.2389	9.3000e-004	0.1042	7.1000e-004	0.1049	0.0279	6.5000e-004	0.0285	0.0000	83.9804	83.9804	1.5100e-003	0.0000	84.0181
Total	**0.0362**	**0.1613**	**0.2887**	**1.4200e-003**	**0.1168**	**8.8000e-004**	**0.1177**	**0.0315**	**8.1000e-004**	**0.0323**	**0.0000**	**132.9952**	**132.9952**	**5.1900e-003**	**0.0000**	**133.1250**

3.13 Finishing/Landscaping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9600e-003	0.0386	0.0898	1.4000e-004		1.9000e-003	1.9000e-003		1.7500e-003	1.7500e-003	0.0000	12.4804	12.4804	4.0400e-003	0.0000	12.5813
Total	**4.9600e-003**	**0.0386**	**0.0898**	**1.4000e-004**		**1.9000e-003**	**1.9000e-003**		**1.7500e-003**	**1.7500e-003**	**0.0000**	**12.4804**	**12.4804**	**4.0400e-003**	**0.0000**	**12.5813**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.5000e-004	1.9100e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.6729	0.6729	1.0000e-005	0.0000	0.6732
Total	**2.6000e-004**	**1.5000e-004**	**1.9100e-003**	**1.0000e-005**	**9.1000e-004**	**1.0000e-005**	**9.1000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.6729**	**0.6729**	**1.0000e-005**	**0.0000**	**0.6732**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.9600e-003	0.0386	0.0898	1.4000e-004		1.9000e-003	1.9000e-003		1.7500e-003	1.7500e-003	0.0000	12.4804	12.4804	4.0400e-003	0.0000	12.5813
Total	**4.9600e-003**	**0.0386**	**0.0898**	**1.4000e-004**		**1.9000e-003**	**1.9000e-003**		**1.7500e-003**	**1.7500e-003**	**0.0000**	**12.4804**	**12.4804**	**4.0400e-003**	**0.0000**	**12.5813**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.5000e-004	1.9100e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.6729	0.6729	1.0000e-005	0.0000	0.6732
Total	**2.6000e-004**	**1.5000e-004**	**1.9100e-003**	**1.0000e-005**	**8.4000e-004**	**1.0000e-005**	**8.4000e-004**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**0.0000**	**0.6729**	**0.6729**	**1.0000e-005**	**0.0000**	**0.6732**

3.14 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0154	0.1448	0.2139	3.3000e-004		6.9800e-003	6.9800e-003		6.4500e-003	6.4500e-003	0.0000	28.6656	28.6656	9.0100e-003	0.0000	28.8907
Paving	5.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0160**	**0.1448**	**0.2139**	**3.3000e-004**		**6.9800e-003**	**6.9800e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**28.6656**	**28.6656**	**9.0100e-003**	**0.0000**	**28.8907**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	6.5000e-004	8.1200e-003	3.0000e-005	3.8400e-003	2.0000e-005	3.8700e-003	1.0200e-003	2.0000e-005	1.0400e-003	0.0000	2.8548	2.8548	5.0000e-005	0.0000	2.8561
Total	**1.0900e-003**	**6.5000e-004**	**8.1200e-003**	**3.0000e-005**	**3.8400e-003**	**2.0000e-005**	**3.8700e-003**	**1.0200e-003**	**2.0000e-005**	**1.0400e-003**	**0.0000**	**2.8548**	**2.8548**	**5.0000e-005**	**0.0000**	**2.8561**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0154	0.1448	0.2139	3.3000e-004		6.9800e-003	6.9800e-003		6.4500e-003	6.4500e-003	0.0000	28.6655	28.6655	9.0100e-003	0.0000	28.8907
Paving	5.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0160**	**0.1448**	**0.2139**	**3.3000e-004**		**6.9800e-003**	**6.9800e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**28.6655**	**28.6655**	**9.0100e-003**	**0.0000**	**28.8907**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	6.5000e-004	8.1200e-003	3.0000e-005	3.5400e-003	2.0000e-005	3.5700e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.8548	2.8548	5.0000e-005	0.0000	2.8561

Total	**1.0900e-003**	**6.5000e-004**	**8.1200e-003**	**3.0000e-005**	**3.5400e-003**	**2.0000e-005**	**3.5700e-003**	**9.5000e-004**	**2.0000e-005**	**9.7000e-004**	**0.0000**	**2.8548**	**2.8548**	**5.0000e-005**	**0.0000**	**2.8561**

3.15 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**2.4017**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3200e-003	2.5500e-003	0.0321	1.2000e-004	0.0152	9.0000e-005	0.0153	4.0300e-003	9.0000e-005	4.1200e-003	0.0000	11.2765	11.2765	2.0000e-004	0.0000	11.2816
Total	**4.3200e-003**	**2.5500e-003**	**0.0321**	**1.2000e-004**	**0.0152**	**9.0000e-005**	**0.0153**	**4.0300e-003**	**9.0000e-005**	**4.1200e-003**	**0.0000**	**11.2765**	**11.2765**	**2.0000e-004**	**0.0000**	**11.2816**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**2.4017**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3200e-003	2.5500e-003	0.0321	1.2000e-004	0.0140	9.0000e-005	0.0141	3.7400e-003	9.0000e-005	3.8300e-003	0.0000	11.2765	11.2765	2.0000e-004	0.0000	11.2816
Total	**4.3200e-003**	**2.5500e-003**	**0.0321**	**1.2000e-004**	**0.0140**	**9.0000e-005**	**0.0141**	**3.7400e-003**	**9.0000e-005**	**3.8300e-003**	**0.0000**	**11.2765**	**11.2765**	**2.0000e-004**	**0.0000**	**11.2816**

CalEEMod Mitigated Construction Model

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

The Hub Fullerton Mitigated Construction Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	68.46	1000sqft	1.57	68,464.00	0
Parking Lot	145.95	1000sqft	0.44	145,952.00	0
Apartments Mid Rise	420.00	Dwelling Unit	1.21	471,522.00	1201
Regional Shopping Center	12.44	1000sqft	0.29	12,438.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - based on info from applicant

Construction Phase - based on info from applicant

Off-road Equipment -

Off-road Equipment - No additional equipment for Demolition Debris Haul

Off-road Equipment - no additional equipment for debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - provided equipment from applicant would be electric

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Off-road Equipment - no additional equipment for demo debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - proxy for geopier equipment

Off-road Equipment -

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Trips and VMT - 2 water trucks/vt/day, based on soil haul and demo info from applicant

Demolition -

Grading -

Architectural Coating - based on info from applicant, see assumptions file for calculations, MM: 50 VOC paints

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186, MM: Tier 4 Interim for equipment >50 HP

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	6,219.00	36,799.00
tblArchitecturalCoating	ConstArea_Parking	12,865.00	8,757.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	318,277.00	15,914.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	230.00	435.00
tblConstructionPhase	NumDays	20.00	45.00

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

tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	40.00
tblEnergyUse	T24E	38.29	179.76
tblEnergyUse	T24E	2.62	2.93
tblEnergyUse	T24NG	5,633.62	5,911.46
tblEnergyUse	T24NG	0.94	0.95
tblFleetMix	HHD	4.9060e-003	0.02
tblFleetMix	HHD	4.9060e-003	0.02
tblFleetMix	HHD	4.9060e-003	0.02
tblFleetMix	HHD	4.9060e-003	0.02
tblFleetMix	LDA	0.55	0.57
tblFleetMix	LDA	0.55	0.57
tblFleetMix	LDA	0.55	0.57
tblFleetMix	LDA	0.55	0.57
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21

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

tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD2	6.6050e-003	5.7730e-003
tblFleetMix	LHD2	6.6050e-003	5.7730e-003
tblFleetMix	LHD2	6.6050e-003	5.7730e-003
tblFleetMix	LHD2	6.6050e-003	5.7730e-003
tblFleetMix	MCY	0.02	4.9530e-003
tblFleetMix	MCY	0.02	4.9530e-003
tblFleetMix	MCY	0.02	4.9530e-003
tblFleetMix	MCY	0.02	4.9530e-003
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MH	3.8690e-003	8.7700e-004
tblFleetMix	MH	3.8690e-003	8.7700e-004
tblFleetMix	MH	3.8690e-003	8.7700e-004
tblFleetMix	MH	3.8690e-003	8.7700e-004
tblFleetMix	MHD	0.01	0.03
tblFleetMix	MHD	0.01	0.03
tblFleetMix	MHD	0.01	0.03
tblFleetMix	MHD	0.01	0.03
tblFleetMix	OBUS	6.5700e-004	1.7920e-003
tblFleetMix	OBUS	6.5700e-004	1.7920e-003
tblFleetMix	OBUS	6.5700e-004	1.7920e-003

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

tblFleetMix	OBUS	6.5700e-004	1.7920e-003
tblFleetMix	SBUS	7.1300e-004	6.0200e-004
tblFleetMix	SBUS	7.1300e-004	6.0200e-004
tblFleetMix	SBUS	7.1300e-004	6.0200e-004
tblFleetMix	SBUS	7.1300e-004	6.0200e-004
tblFleetMix	UBUS	3.8100e-004	1.5090e-003
tblFleetMix	UBUS	3.8100e-004	1.5090e-003
tblFleetMix	UBUS	3.8100e-004	1.5090e-003
tblFleetMix	UBUS	3.8100e-004	1.5090e-003
tblGrading	AcresOfGrading	30.00	25.00
tblGrading	MaterialExported	0.00	8,000.00
tblGrading	MaterialExported	0.00	2,000.00
tblLandUse	LandUseSquareFeet	68,460.00	68,464.00
tblLandUse	LandUseSquareFeet	145,950.00	145,952.00
tblLandUse	LandUseSquareFeet	420,000.00	471,522.00
tblLandUse	LandUseSquareFeet	12,440.00	12,438.00
tblLandUse	LotAcreage	3.35	0.44
tblLandUse	LotAcreage	11.05	1.21
tblOffRoadEquipment	HorsePower	158.00	307.00
tblOffRoadEquipment	HorsePower	158.00	424.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	247.00	405.00
tblOffRoadEquipment	HorsePower	247.00	215.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	158.00	265.00
tblOffRoadEquipment	HorsePower	158.00	41.00

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

tblOffRoadEquipment	HorsePower	8.00	157.00
tblOffRoadEquipment	HorsePower	8.00	157.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	65.00	73.00
tblOffRoadEquipment	HorsePower	65.00	90.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	HorsePower	97.00	197.00
tblOffRoadEquipment	HorsePower	97.00	241.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	109.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.029
tblProjectCharacteristics	CO2IntensityFactor	390.98	531.44
tblProjectCharacteristics	N2OIntensityFactor	0.004	0.006
tblTripsAndVMT	HaulingTripNumber	277.00	280.00
tblTripsAndVMT	HaulingTripNumber	326.00	330.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleEF	HHD	0.03	0.44
tblVehicleEF	HHD	0.15	0.16
tblVehicleEF	HHD	1.0000e-006	0.06
tblVehicleEF	HHD	6.07	1.47
tblVehicleEF	HHD	0.64	1.26
tblVehicleEF	HHD	0.01	4.25

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

tblVehicleEF	HHD	1,012.56	3,818.18
tblVehicleEF	HHD	1,373.65	1,584.91
tblVehicleEF	HHD	0.08	13.84
tblVehicleEF	HHD	5.26	12.98
tblVehicleEF	HHD	2.42	1.77
tblVehicleEF	HHD	2.48	19.03
tblVehicleEF	HHD	2.9540e-003	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	6.0110e-003
tblVehicleEF	HHD	1.0000e-006	1.3200e-004
tblVehicleEF	HHD	2.8260e-003	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7620e-003	8.6690e-003
tblVehicleEF	HHD	0.02	5.7510e-003
tblVehicleEF	HHD	1.0000e-006	1.2100e-004
tblVehicleEF	HHD	4.0000e-006	1.1600e-004
tblVehicleEF	HHD	1.5600e-004	4.7330e-003
tblVehicleEF	HHD	0.40	0.35
tblVehicleEF	HHD	3.0000e-006	8.9000e-005
tblVehicleEF	HHD	0.03	0.08
tblVehicleEF	HHD	6.3000e-005	4.2800e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	HHD	9.2460e-003	0.03
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	2.0800e-004
tblVehicleEF	HHD	4.0000e-006	1.1600e-004
tblVehicleEF	HHD	1.5600e-004	4.7330e-003

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

tblVehicleEF	HHD	0.47	0.43
tblVehicleEF	HHD	3.0000e-006	8.9000e-005
tblVehicleEF	HHD	0.17	0.25
tblVehicleEF	HHD	6.3000e-005	4.2800e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	HHD	0.03	0.42
tblVehicleEF	HHD	0.15	0.16
tblVehicleEF	HHD	1.0000e-006	0.06
tblVehicleEF	HHD	5.98	1.07
tblVehicleEF	HHD	0.64	1.27
tblVehicleEF	HHD	9.6240e-003	4.05
tblVehicleEF	HHD	1,001.49	4,045.03
tblVehicleEF	HHD	1,373.65	1,584.91
tblVehicleEF	HHD	0.08	13.84
tblVehicleEF	HHD	5.04	13.40
tblVehicleEF	HHD	2.30	1.67
tblVehicleEF	HHD	2.48	19.02
tblVehicleEF	HHD	2.5700e-003	9.0000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	6.0110e-003
tblVehicleEF	HHD	1.0000e-006	1.3200e-004
tblVehicleEF	HHD	2.4590e-003	8.6100e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7620e-003	8.6690e-003
tblVehicleEF	HHD	0.02	5.7510e-003
tblVehicleEF	HHD	1.0000e-006	1.2100e-004
tblVehicleEF	HHD	5.0000e-006	1.6500e-004

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

tblVehicleEF	HHD	1.5800e-004	4.8270e-003
tblVehicleEF	HHD	0.43	0.33
tblVehicleEF	HHD	4.0000e-006	1.2300e-004
tblVehicleEF	HHD	0.03	0.08
tblVehicleEF	HHD	6.2000e-005	4.1200e-004
tblVehicleEF	HHD	4.0000e-006	0.08
tblVehicleEF	HHD	9.1420e-003	0.04
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	2.0400e-004
tblVehicleEF	HHD	5.0000e-006	1.6500e-004
tblVehicleEF	HHD	1.5800e-004	4.8270e-003
tblVehicleEF	HHD	0.50	0.41
tblVehicleEF	HHD	4.0000e-006	1.2300e-004
tblVehicleEF	HHD	0.17	0.26
tblVehicleEF	HHD	6.2000e-005	4.1200e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	HHD	0.03	0.48
tblVehicleEF	HHD	0.15	0.16
tblVehicleEF	HHD	1.0000e-006	0.06
tblVehicleEF	HHD	6.20	2.03
tblVehicleEF	HHD	0.64	1.26
tblVehicleEF	HHD	0.01	4.29
tblVehicleEF	HHD	1,027.85	3,504.93
tblVehicleEF	HHD	1,373.65	1,584.91
tblVehicleEF	HHD	0.08	13.84
tblVehicleEF	HHD	5.57	12.41
tblVehicleEF	HHD	2.38	1.74
tblVehicleEF	HHD	2.48	19.03

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

tblVehicleEF	HHD	3.4840e-003	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	6.0110e-003
tblVehicleEF	HHD	1.0000e-006	1.3200e-004
tblVehicleEF	HHD	3.3340e-003	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7620e-003	8.6690e-003
tblVehicleEF	HHD	0.02	5.7510e-003
tblVehicleEF	HHD	1.0000e-006	1.2100e-004
tblVehicleEF	HHD	4.0000e-006	1.1300e-004
tblVehicleEF	HHD	1.7200e-004	5.0410e-003
tblVehicleEF	HHD	0.37	0.38
tblVehicleEF	HHD	3.0000e-006	8.9000e-005
tblVehicleEF	HHD	0.03	0.08
tblVehicleEF	HHD	6.7000e-005	4.6700e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	HHD	9.3900e-003	0.03
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	2.0800e-004
tblVehicleEF	HHD	4.0000e-006	1.1300e-004
tblVehicleEF	HHD	1.7200e-004	5.0410e-003
tblVehicleEF	HHD	0.43	0.46
tblVehicleEF	HHD	3.0000e-006	8.9000e-005
tblVehicleEF	HHD	0.17	0.25
tblVehicleEF	HHD	6.7000e-005	4.6700e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	LDA	1.8160e-003	3.2540e-003

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

tblVehicleEF	LDA	0.04	3.5200e-003
tblVehicleEF	LDA	0.55	0.48
tblVehicleEF	LDA	1.92	0.84
tblVehicleEF	LDA	241.39	231.86
tblVehicleEF	LDA	49.38	51.83
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.15	0.05
tblVehicleEF	LDA	1.4250e-003	1.8000e-003
tblVehicleEF	LDA	1.6760e-003	2.2330e-003
tblVehicleEF	LDA	1.3120e-003	1.6580e-003
tblVehicleEF	LDA	1.5410e-003	2.0530e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	6.5820e-003	8.1920e-003
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.17	0.05
tblVehicleEF	LDA	2.3880e-003	2.3210e-003
tblVehicleEF	LDA	4.8900e-004	5.3200e-004
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	9.5640e-003	0.01
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.19	0.05
tblVehicleEF	LDA	1.9350e-003	3.4390e-003
tblVehicleEF	LDA	0.04	3.1700e-003
tblVehicleEF	LDA	0.60	0.52

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

tblVehicleEF	LDA	1.66	0.73
tblVehicleEF	LDA	251.25	241.58
tblVehicleEF	LDA	48.90	51.83
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.04
tblVehicleEF	LDA	1.4250e-003	1.8000e-003
tblVehicleEF	LDA	1.6760e-003	2.2330e-003
tblVehicleEF	LDA	1.3120e-003	1.6580e-003
tblVehicleEF	LDA	1.5410e-003	2.0530e-003
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	6.9500e-003	8.6510e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.16	0.04
tblVehicleEF	LDA	2.4850e-003	2.4190e-003
tblVehicleEF	LDA	4.8400e-004	5.3000e-004
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.17	0.05
tblVehicleEF	LDA	1.7790e-003	3.1920e-003
tblVehicleEF	LDA	0.04	3.5920e-003
tblVehicleEF	LDA	0.53	0.47
tblVehicleEF	LDA	1.97	0.87
tblVehicleEF	LDA	237.76	228.27

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

tblVehicleEF	LDA	49.48	51.83
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.16	0.05
tblVehicleEF	LDA	1.4250e-003	1.8000e-003
tblVehicleEF	LDA	1.6760e-003	2.2330e-003
tblVehicleEF	LDA	1.3120e-003	1.6580e-003
tblVehicleEF	LDA	1.5410e-003	2.0530e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	6.4580e-003	8.0370e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.18	0.05
tblVehicleEF	LDA	2.3520e-003	2.2850e-003
tblVehicleEF	LDA	4.9000e-004	5.3300e-004
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	9.3830e-003	0.01
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.19	0.05
tblVehicleEF	LDT1	4.1470e-003	7.2360e-003
tblVehicleEF	LDT1	0.06	9.9520e-003
tblVehicleEF	LDT1	0.93	0.92
tblVehicleEF	LDT1	2.09	2.03
tblVehicleEF	LDT1	287.95	292.62
tblVehicleEF	LDT1	59.85	65.95
tblVehicleEF	LDT1	0.07	0.08

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

tblVehicleEF	LDT1	0.21	0.12
tblVehicleEF	LDT1	1.8420e-003	2.2960e-003
tblVehicleEF	LDT1	2.1690e-003	2.9420e-003
tblVehicleEF	LDT1	1.6940e-003	2.1130e-003
tblVehicleEF	LDT1	1.9940e-003	2.7050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.16	0.21
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.27	0.13
tblVehicleEF	LDT1	2.8490e-003	2.9360e-003
tblVehicleEF	LDT1	5.9200e-004	6.9500e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.16	0.21
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.29	0.15
tblVehicleEF	LDT1	4.3890e-003	7.6070e-003
tblVehicleEF	LDT1	0.05	8.9270e-003
tblVehicleEF	LDT1	1.00	0.99
tblVehicleEF	LDT1	1.80	1.75
tblVehicleEF	LDT1	298.07	304.46
tblVehicleEF	LDT1	59.30	65.95
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.20	0.11
tblVehicleEF	LDT1	1.8420e-003	2.2960e-003

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

tblVehicleEF	LDT1	2.1690e-003	2.9420e-003
tblVehicleEF	LDT1	1.6940e-003	2.1130e-003
tblVehicleEF	LDT1	1.9940e-003	2.7050e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.16	0.22
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.06	0.13
tblVehicleEF	LDT1	0.24	0.12
tblVehicleEF	LDT1	2.9500e-003	3.0550e-003
tblVehicleEF	LDT1	5.8700e-004	6.9000e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.16	0.22
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.06	0.13
tblVehicleEF	LDT1	0.26	0.13
tblVehicleEF	LDT1	4.0700e-003	7.1090e-003
tblVehicleEF	LDT1	0.06	0.01
tblVehicleEF	LDT1	0.90	0.89
tblVehicleEF	LDT1	2.15	2.09
tblVehicleEF	LDT1	284.21	288.25
tblVehicleEF	LDT1	59.97	65.95
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.21	0.12
tblVehicleEF	LDT1	1.8420e-003	2.2960e-003
tblVehicleEF	LDT1	2.1690e-003	2.9420e-003
tblVehicleEF	LDT1	1.6940e-003	2.1130e-003

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

tblVehicleEF	LDT1	1.9940e-003	2.7050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.17	0.24
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.08	0.16
tblVehicleEF	LDT1	0.27	0.14
tblVehicleEF	LDT1	2.8120e-003	2.8920e-003
tblVehicleEF	LDT1	5.9300e-004	6.9600e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.17	0.24
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.08	0.16
tblVehicleEF	LDT1	0.30	0.15
tblVehicleEF	LDT2	2.9810e-003	4.5940e-003
tblVehicleEF	LDT2	0.06	4.8100e-003
tblVehicleEF	LDT2	0.74	0.64
tblVehicleEF	LDT2	2.44	1.11
tblVehicleEF	LDT2	306.41	329.48
tblVehicleEF	LDT2	64.11	73.66
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.22	0.08
tblVehicleEF	LDT2	1.4590e-003	1.8470e-003
tblVehicleEF	LDT2	1.6550e-003	2.3090e-003
tblVehicleEF	LDT2	1.3430e-003	1.6990e-003
tblVehicleEF	LDT2	1.5220e-003	2.1230e-003
tblVehicleEF	LDT2	0.07	0.04

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

tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.25	0.06
tblVehicleEF	LDT2	3.0310e-003	3.2990e-003
tblVehicleEF	LDT2	6.3400e-004	7.5500e-004
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.27	0.07
tblVehicleEF	LDT2	3.1670e-003	4.8530e-003
tblVehicleEF	LDT2	0.05	4.3330e-003
tblVehicleEF	LDT2	0.80	0.69
tblVehicleEF	LDT2	2.10	0.96
tblVehicleEF	LDT2	316.15	342.98
tblVehicleEF	LDT2	63.50	73.66
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.21	0.07
tblVehicleEF	LDT2	1.4590e-003	1.8470e-003
tblVehicleEF	LDT2	1.6550e-003	2.3090e-003
tblVehicleEF	LDT2	1.3430e-003	1.6990e-003
tblVehicleEF	LDT2	1.5220e-003	2.1230e-003
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.10	0.06

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

tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.23	0.06
tblVehicleEF	LDT2	3.1280e-003	3.4350e-003
tblVehicleEF	LDT2	6.2800e-004	7.5200e-004
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.25	0.06
tblVehicleEF	LDT2	2.9220e-003	4.5070e-003
tblVehicleEF	LDT2	0.06	4.9080e-003
tblVehicleEF	LDT2	0.71	0.62
tblVehicleEF	LDT2	2.51	1.14
tblVehicleEF	LDT2	302.81	324.49
tblVehicleEF	LDT2	64.25	73.66
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.23	0.08
tblVehicleEF	LDT2	1.4590e-003	1.8470e-003
tblVehicleEF	LDT2	1.6550e-003	2.3090e-003
tblVehicleEF	LDT2	1.3430e-003	1.6990e-003
tblVehicleEF	LDT2	1.5220e-003	2.1230e-003
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.06

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

tblVehicleEF	LDT2	0.26	0.07
tblVehicleEF	LDT2	2.9960e-003	3.2490e-003
tblVehicleEF	LDT2	6.3600e-004	7.5500e-004
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.28	0.07
tblVehicleEF	LHD1	5.1790e-003	4.8760e-003
tblVehicleEF	LHD1	3.6570e-003	7.3850e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.14
tblVehicleEF	LHD1	0.42	0.58
tblVehicleEF	LHD1	0.96	2.05
tblVehicleEF	LHD1	8.87	9.05
tblVehicleEF	LHD1	633.58	582.71
tblVehicleEF	LHD1	11.39	30.08
tblVehicleEF	LHD1	0.06	0.08
tblVehicleEF	LHD1	0.58	0.97
tblVehicleEF	LHD1	0.30	0.88
tblVehicleEF	LHD1	8.3800e-004	8.7700e-004
tblVehicleEF	LHD1	9.8000e-003	0.01
tblVehicleEF	LHD1	6.3810e-003	9.4650e-003
tblVehicleEF	LHD1	2.2200e-004	7.7100e-004
tblVehicleEF	LHD1	8.0200e-004	8.3900e-004
tblVehicleEF	LHD1	2.4500e-003	2.5630e-003
tblVehicleEF	LHD1	6.0820e-003	9.0360e-003

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

tblVehicleEF	LHD1	2.0400e-004	7.0900e-004
tblVehicleEF	LHD1	1.8820e-003	2.4720e-003
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2380e-003	1.6210e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.15	0.26
tblVehicleEF	LHD1	0.06	0.21
tblVehicleEF	LHD1	8.6000e-005	9.0000e-005
tblVehicleEF	LHD1	6.1790e-003	5.7060e-003
tblVehicleEF	LHD1	1.1300e-004	3.3900e-004
tblVehicleEF	LHD1	1.8820e-003	2.4720e-003
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.2380e-003	1.6210e-003
tblVehicleEF	LHD1	0.05	0.07
tblVehicleEF	LHD1	0.15	0.26
tblVehicleEF	LHD1	0.07	0.23
tblVehicleEF	LHD1	5.1900e-003	4.8760e-003
tblVehicleEF	LHD1	3.7120e-003	7.5120e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.18	0.14
tblVehicleEF	LHD1	0.42	0.59
tblVehicleEF	LHD1	0.92	1.97
tblVehicleEF	LHD1	8.87	9.05
tblVehicleEF	LHD1	633.59	582.71
tblVehicleEF	LHD1	11.32	30.08
tblVehicleEF	LHD1	0.06	0.08

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

tblVehicleEF	LHD1	0.55	0.92
tblVehicleEF	LHD1	0.28	0.84
tblVehicleEF	LHD1	8.3800e-004	8.7700e-004
tblVehicleEF	LHD1	9.8000e-003	0.01
tblVehicleEF	LHD1	6.3810e-003	9.4650e-003
tblVehicleEF	LHD1	2.2200e-004	7.7100e-004
tblVehicleEF	LHD1	8.0200e-004	8.3900e-004
tblVehicleEF	LHD1	2.4500e-003	2.5630e-003
tblVehicleEF	LHD1	6.0820e-003	9.0360e-003
tblVehicleEF	LHD1	2.0400e-004	7.0900e-004
tblVehicleEF	LHD1	2.6310e-003	3.4440e-003
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6730e-003	2.1800e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.14	0.25
tblVehicleEF	LHD1	0.06	0.20
tblVehicleEF	LHD1	8.6000e-005	9.0000e-005
tblVehicleEF	LHD1	6.1790e-003	5.7070e-003
tblVehicleEF	LHD1	1.1200e-004	3.3800e-004
tblVehicleEF	LHD1	2.6310e-003	3.4440e-003
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.6730e-003	2.1800e-003
tblVehicleEF	LHD1	0.05	0.07
tblVehicleEF	LHD1	0.14	0.25
tblVehicleEF	LHD1	0.07	0.22
tblVehicleEF	LHD1	5.1770e-003	4.8760e-003

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

tblVehicleEF	LHD1	3.6420e-003	7.3500e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.14
tblVehicleEF	LHD1	0.41	0.58
tblVehicleEF	LHD1	0.97	2.06
tblVehicleEF	LHD1	8.87	9.05
tblVehicleEF	LHD1	633.58	582.71
tblVehicleEF	LHD1	11.40	30.08
tblVehicleEF	LHD1	0.06	0.08
tblVehicleEF	LHD1	0.57	0.96
tblVehicleEF	LHD1	0.30	0.89
tblVehicleEF	LHD1	8.3800e-004	8.7700e-004
tblVehicleEF	LHD1	9.8000e-003	0.01
tblVehicleEF	LHD1	6.3810e-003	9.4650e-003
tblVehicleEF	LHD1	2.2200e-004	7.7100e-004
tblVehicleEF	LHD1	8.0200e-004	8.3900e-004
tblVehicleEF	LHD1	2.4500e-003	2.5630e-003
tblVehicleEF	LHD1	6.0820e-003	9.0360e-003
tblVehicleEF	LHD1	2.0400e-004	7.0900e-004
tblVehicleEF	LHD1	1.9320e-003	2.5350e-003
tblVehicleEF	LHD1	0.07	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2470e-003	1.6290e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.16	0.29
tblVehicleEF	LHD1	0.06	0.21
tblVehicleEF	LHD1	8.6000e-005	9.0000e-005
tblVehicleEF	LHD1	6.1790e-003	5.7060e-003

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

tblVehicleEF	LHD1	1.1300e-004	3.4000e-004
tblVehicleEF	LHD1	1.9320e-003	2.5350e-003
tblVehicleEF	LHD1	0.07	0.10
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.2470e-003	1.6290e-003
tblVehicleEF	LHD1	0.05	0.07
tblVehicleEF	LHD1	0.16	0.29
tblVehicleEF	LHD1	0.07	0.23
tblVehicleEF	LHD2	3.7120e-003	3.5130e-003
tblVehicleEF	LHD2	2.8570e-003	3.0250e-003
tblVehicleEF	LHD2	9.0450e-003	6.4370e-003
tblVehicleEF	LHD2	0.15	0.13
tblVehicleEF	LHD2	0.31	0.27
tblVehicleEF	LHD2	0.65	1.11
tblVehicleEF	LHD2	13.46	13.66
tblVehicleEF	LHD2	642.40	600.10
tblVehicleEF	LHD2	8.94	25.96
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.66	0.55
tblVehicleEF	LHD2	0.21	0.47
tblVehicleEF	LHD2	1.2800e-003	1.1390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.6040e-003	8.3740e-003
tblVehicleEF	LHD2	1.2800e-004	3.9500e-004
tblVehicleEF	LHD2	1.2250e-003	1.0900e-003
tblVehicleEF	LHD2	2.6460e-003	2.6730e-003
tblVehicleEF	LHD2	9.1750e-003	7.9990e-003
tblVehicleEF	LHD2	1.1800e-004	3.6300e-004

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

tblVehicleEF	LHD2	1.2060e-003	9.0300e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	8.2300e-004	6.4300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.09	0.06
tblVehicleEF	LHD2	0.04	0.09
tblVehicleEF	LHD2	1.2900e-004	1.3300e-004
tblVehicleEF	LHD2	6.2140e-003	5.8410e-003
tblVehicleEF	LHD2	8.9000e-005	2.7900e-004
tblVehicleEF	LHD2	1.2060e-003	9.0300e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.2300e-004	6.4300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.06
tblVehicleEF	LHD2	0.05	0.10
tblVehicleEF	LHD2	3.7190e-003	3.5130e-003
tblVehicleEF	LHD2	2.8800e-003	3.0530e-003
tblVehicleEF	LHD2	8.7610e-003	6.2440e-003
tblVehicleEF	LHD2	0.15	0.13
tblVehicleEF	LHD2	0.31	0.27
tblVehicleEF	LHD2	0.62	1.06
tblVehicleEF	LHD2	13.46	13.66
tblVehicleEF	LHD2	642.40	600.10
tblVehicleEF	LHD2	8.90	25.96
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.62	0.52

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

tblVehicleEF	LHD2	0.20	0.45
tblVehicleEF	LHD2	1.2800e-003	1.1390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.6040e-003	8.3740e-003
tblVehicleEF	LHD2	1.2800e-004	3.9500e-004
tblVehicleEF	LHD2	1.2250e-003	1.0900e-003
tblVehicleEF	LHD2	2.6460e-003	2.6730e-003
tblVehicleEF	LHD2	9.1750e-003	7.9990e-003
tblVehicleEF	LHD2	1.1800e-004	3.6300e-004
tblVehicleEF	LHD2	1.6890e-003	1.2670e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	1.1130e-003	8.6800e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.08	0.06
tblVehicleEF	LHD2	0.04	0.08
tblVehicleEF	LHD2	1.2900e-004	1.3300e-004
tblVehicleEF	LHD2	6.2140e-003	5.8410e-003
tblVehicleEF	LHD2	8.8000e-005	2.7900e-004
tblVehicleEF	LHD2	1.6890e-003	1.2670e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1130e-003	8.6800e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.08	0.06
tblVehicleEF	LHD2	0.05	0.09
tblVehicleEF	LHD2	3.7100e-003	3.5130e-003
tblVehicleEF	LHD2	2.8500e-003	3.0170e-003

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

tblVehicleEF	LHD2	9.1040e-003	6.4770e-003
tblVehicleEF	LHD2	0.15	0.13
tblVehicleEF	LHD2	0.31	0.27
tblVehicleEF	LHD2	0.65	1.11
tblVehicleEF	LHD2	13.46	13.66
tblVehicleEF	LHD2	642.39	600.10
tblVehicleEF	LHD2	8.95	25.96
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.65	0.54
tblVehicleEF	LHD2	0.21	0.47
tblVehicleEF	LHD2	1.2800e-003	1.1390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.6040e-003	8.3740e-003
tblVehicleEF	LHD2	1.2800e-004	3.9500e-004
tblVehicleEF	LHD2	1.2250e-003	1.0900e-003
tblVehicleEF	LHD2	2.6460e-003	2.6730e-003
tblVehicleEF	LHD2	9.1750e-003	7.9990e-003
tblVehicleEF	LHD2	1.1800e-004	3.6300e-004
tblVehicleEF	LHD2	1.2110e-003	8.9600e-004
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	8.1400e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.04	0.09
tblVehicleEF	LHD2	1.2900e-004	1.3300e-004
tblVehicleEF	LHD2	6.2140e-003	5.8410e-003
tblVehicleEF	LHD2	8.9000e-005	2.8000e-004

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

tblVehicleEF	LHD2	1.2110e-003	8.9600e-004
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1400e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.05	0.10
tblVehicleEF	MCY	0.35	0.49
tblVehicleEF	MCY	0.23	0.15
tblVehicleEF	MCY	18.16	17.95
tblVehicleEF	MCY	8.50	9.61
tblVehicleEF	MCY	214.64	178.67
tblVehicleEF	MCY	59.14	44.17
tblVehicleEF	MCY	1.12	1.11
tblVehicleEF	MCY	0.26	0.31
tblVehicleEF	MCY	2.2320e-003	2.2470e-003
tblVehicleEF	MCY	2.9930e-003	3.4860e-003
tblVehicleEF	MCY	2.0840e-003	2.0980e-003
tblVehicleEF	MCY	2.8100e-003	3.2740e-003
tblVehicleEF	MCY	1.15	1.12
tblVehicleEF	MCY	0.68	0.65
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	2.35	2.34
tblVehicleEF	MCY	0.53	0.60
tblVehicleEF	MCY	1.79	2.02
tblVehicleEF	MCY	2.1240e-003	2.1510e-003
tblVehicleEF	MCY	5.8500e-004	6.5800e-004
tblVehicleEF	MCY	1.15	1.12

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

tblVehicleEF	MCY	0.68	0.65
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	2.93	2.92
tblVehicleEF	MCY	0.53	0.60
tblVehicleEF	MCY	1.95	2.20
tblVehicleEF	MCY	0.34	0.48
tblVehicleEF	MCY	0.21	0.13
tblVehicleEF	MCY	17.50	17.31
tblVehicleEF	MCY	7.78	8.84
tblVehicleEF	MCY	213.41	178.67
tblVehicleEF	MCY	57.38	44.17
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.25	0.29
tblVehicleEF	MCY	2.2320e-003	2.2470e-003
tblVehicleEF	MCY	2.9930e-003	3.4860e-003
tblVehicleEF	MCY	2.0840e-003	2.0980e-003
tblVehicleEF	MCY	2.8100e-003	3.2740e-003
tblVehicleEF	MCY	1.72	1.69
tblVehicleEF	MCY	0.72	0.70
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	2.30	2.29
tblVehicleEF	MCY	0.50	0.56
tblVehicleEF	MCY	1.60	1.82
tblVehicleEF	MCY	2.1120e-003	2.1390e-003
tblVehicleEF	MCY	5.6800e-004	6.3900e-004
tblVehicleEF	MCY	1.72	1.69
tblVehicleEF	MCY	0.72	0.70
tblVehicleEF	MCY	1.11	1.09

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

tblVehicleEF	MCY	2.86	2.85
tblVehicleEF	MCY	0.50	0.56
tblVehicleEF	MCY	1.74	1.98
tblVehicleEF	MCY	0.35	0.49
tblVehicleEF	MCY	0.24	0.15
tblVehicleEF	MCY	18.25	18.04
tblVehicleEF	MCY	8.62	9.73
tblVehicleEF	MCY	214.83	178.67
tblVehicleEF	MCY	59.46	44.17
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.27	0.31
tblVehicleEF	MCY	2.2320e-003	2.2470e-003
tblVehicleEF	MCY	2.9930e-003	3.4860e-003
tblVehicleEF	MCY	2.0840e-003	2.0980e-003
tblVehicleEF	MCY	2.8100e-003	3.2740e-003
tblVehicleEF	MCY	1.27	1.25
tblVehicleEF	MCY	0.87	0.84
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.36	2.35
tblVehicleEF	MCY	0.62	0.69
tblVehicleEF	MCY	1.83	2.06
tblVehicleEF	MCY	2.1260e-003	2.1520e-003
tblVehicleEF	MCY	5.8800e-004	6.6100e-004
tblVehicleEF	MCY	1.27	1.25
tblVehicleEF	MCY	0.87	0.84
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.94	2.93
tblVehicleEF	MCY	0.62	0.69

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

tblVehicleEF	MCY	1.99	2.24
tblVehicleEF	MDV	3.7210e-003	8.2720e-003
tblVehicleEF	MDV	0.07	0.01
tblVehicleEF	MDV	0.82	0.96
tblVehicleEF	MDV	2.69	1.95
tblVehicleEF	MDV	379.98	450.89
tblVehicleEF	MDV	78.00	98.57
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.27	0.17
tblVehicleEF	MDV	1.5390e-003	1.8710e-003
tblVehicleEF	MDV	1.7140e-003	2.2680e-003
tblVehicleEF	MDV	1.4190e-003	1.7240e-003
tblVehicleEF	MDV	1.5760e-003	2.0860e-003
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.31	0.14
tblVehicleEF	MDV	3.7560e-003	4.5120e-003
tblVehicleEF	MDV	7.7200e-004	1.0190e-003
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.34	0.15
tblVehicleEF	MDV	3.9510e-003	8.7240e-003

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

tblVehicleEF	MDV	0.06	9.3780e-003
tblVehicleEF	MDV	0.89	1.04
tblVehicleEF	MDV	2.31	1.69
tblVehicleEF	MDV	390.11	468.83
tblVehicleEF	MDV	77.30	98.57
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.25	0.16
tblVehicleEF	MDV	1.5390e-003	1.8710e-003
tblVehicleEF	MDV	1.7140e-003	2.2680e-003
tblVehicleEF	MDV	1.4190e-003	1.7240e-003
tblVehicleEF	MDV	1.5760e-003	2.0860e-003
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.28	0.13
tblVehicleEF	MDV	3.8560e-003	4.6930e-003
tblVehicleEF	MDV	7.6500e-004	1.0150e-003
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.31	0.14
tblVehicleEF	MDV	3.6470e-003	8.1180e-003
tblVehicleEF	MDV	0.07	0.01
tblVehicleEF	MDV	0.80	0.93

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

tblVehicleEF	MDV	2.77	2.00
tblVehicleEF	MDV	376.25	444.26
tblVehicleEF	MDV	78.15	98.57
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.28	0.17
tblVehicleEF	MDV	1.5390e-003	1.8710e-003
tblVehicleEF	MDV	1.7140e-003	2.2680e-003
tblVehicleEF	MDV	1.4190e-003	1.7240e-003
tblVehicleEF	MDV	1.5760e-003	2.0860e-003
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.13	0.15
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.06	0.11
tblVehicleEF	MDV	0.32	0.14
tblVehicleEF	MDV	3.7190e-003	4.4460e-003
tblVehicleEF	MDV	7.7300e-004	1.0200e-003
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.13	0.15
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.06	0.11
tblVehicleEF	MDV	0.35	0.16
tblVehicleEF	MH	6.9350e-003	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.73	1.27
tblVehicleEF	MH	1.75	4.43
tblVehicleEF	MH	1,403.51	1,096.02

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

tblVehicleEF	MH	16.91	56.63
tblVehicleEF	MH	1.27	1.16
tblVehicleEF	MH	0.23	0.68
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1600e-004	9.0200e-004
tblVehicleEF	MH	3.3090e-003	3.2400e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.9900e-004	8.2900e-004
tblVehicleEF	MH	0.62	0.74
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.28	0.33
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.08	0.26
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6700e-004	6.4300e-004
tblVehicleEF	MH	0.62	0.74
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.28	0.33
tblVehicleEF	MH	0.06	0.08
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.09	0.29
tblVehicleEF	MH	7.0670e-003	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.74	1.30
tblVehicleEF	MH	1.66	4.20
tblVehicleEF	MH	1,403.53	1,096.02

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

tblVehicleEF	MH	16.76	56.63
tblVehicleEF	MH	1.19	1.08
tblVehicleEF	MH	0.22	0.65
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1600e-004	9.0200e-004
tblVehicleEF	MH	3.3090e-003	3.2400e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.9900e-004	8.2900e-004
tblVehicleEF	MH	0.83	0.99
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.38	0.45
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	9.8870e-003	0.02
tblVehicleEF	MH	0.08	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6600e-004	6.3900e-004
tblVehicleEF	MH	0.83	0.99
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.38	0.45
tblVehicleEF	MH	0.06	0.08
tblVehicleEF	MH	9.8870e-003	0.02
tblVehicleEF	MH	0.08	0.27
tblVehicleEF	MH	6.8950e-003	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.72	1.26
tblVehicleEF	MH	1.77	4.46
tblVehicleEF	MH	1,403.50	1,096.02

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

tblVehicleEF	MH	16.93	56.63
tblVehicleEF	MH	1.24	1.14
tblVehicleEF	MH	0.23	0.68
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1600e-004	9.0200e-004
tblVehicleEF	MH	3.3090e-003	3.2400e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.9900e-004	8.2900e-004
tblVehicleEF	MH	0.66	0.80
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.29	0.34
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.08	0.26
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6800e-004	6.4400e-004
tblVehicleEF	MH	0.66	0.80
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.29	0.34
tblVehicleEF	MH	0.06	0.08
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.09	0.29
tblVehicleEF	MHD	4.6040e-003	0.02
tblVehicleEF	MHD	1.2190e-003	2.6670e-003
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.38	0.32
tblVehicleEF	MHD	0.17	0.24

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

tblVehicleEF	MHD	1.13	4.63
tblVehicleEF	MHD	52.64	143.49
tblVehicleEF	MHD	993.27	1,123.36
tblVehicleEF	MHD	11.92	56.66
tblVehicleEF	MHD	0.25	0.37
tblVehicleEF	MHD	0.96	0.68
tblVehicleEF	MHD	1.55	11.00
tblVehicleEF	MHD	1.7500e-004	6.9000e-005
tblVehicleEF	MHD	6.0480e-003	2.8070e-003
tblVehicleEF	MHD	1.1100e-004	6.9200e-004
tblVehicleEF	MHD	1.6700e-004	6.6000e-005
tblVehicleEF	MHD	5.7810e-003	2.6820e-003
tblVehicleEF	MHD	1.0200e-004	6.3600e-004
tblVehicleEF	MHD	4.6900e-004	9.3500e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	3.4100e-004	6.5100e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.29
tblVehicleEF	MHD	5.0100e-004	1.3800e-003
tblVehicleEF	MHD	9.5000e-003	0.01
tblVehicleEF	MHD	1.1800e-004	6.4800e-004
tblVehicleEF	MHD	4.6900e-004	9.3500e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	3.4100e-004	6.5100e-004
tblVehicleEF	MHD	0.01	0.04

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

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.31
tblVehicleEF	MHD	4.3670e-003	0.01
tblVehicleEF	MHD	1.2410e-003	2.6950e-003
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.31	0.24
tblVehicleEF	MHD	0.17	0.24
tblVehicleEF	MHD	1.08	4.41
tblVehicleEF	MHD	52.58	151.98
tblVehicleEF	MHD	993.27	1,123.36
tblVehicleEF	MHD	11.83	56.66
tblVehicleEF	MHD	0.24	0.38
tblVehicleEF	MHD	0.90	0.65
tblVehicleEF	MHD	1.55	10.97
tblVehicleEF	MHD	1.5000e-004	5.8000e-005
tblVehicleEF	MHD	6.0480e-003	2.8070e-003
tblVehicleEF	MHD	1.1100e-004	6.9200e-004
tblVehicleEF	MHD	1.4300e-004	5.5000e-005
tblVehicleEF	MHD	5.7810e-003	2.6820e-003
tblVehicleEF	MHD	1.0200e-004	6.3600e-004
tblVehicleEF	MHD	6.6100e-004	1.3170e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6400e-004	8.8900e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.28
tblVehicleEF	MHD	5.0100e-004	1.4600e-003

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

tblVehicleEF	MHD	9.5000e-003	0.01
tblVehicleEF	MHD	1.1700e-004	6.4400e-004
tblVehicleEF	MHD	6.6100e-004	1.3170e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	4.6400e-004	8.8900e-004
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.30
tblVehicleEF	MHD	4.9470e-003	0.02
tblVehicleEF	MHD	1.2110e-003	2.6590e-003
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.47	0.45
tblVehicleEF	MHD	0.17	0.24
tblVehicleEF	MHD	1.14	4.67
tblVehicleEF	MHD	52.73	131.74
tblVehicleEF	MHD	993.27	1,123.36
tblVehicleEF	MHD	11.94	56.66
tblVehicleEF	MHD	0.26	0.35
tblVehicleEF	MHD	0.94	0.67
tblVehicleEF	MHD	1.55	11.01
tblVehicleEF	MHD	2.1000e-004	8.4000e-005
tblVehicleEF	MHD	6.0480e-003	2.8070e-003
tblVehicleEF	MHD	1.1100e-004	6.9200e-004
tblVehicleEF	MHD	2.0100e-004	8.0000e-005
tblVehicleEF	MHD	5.7810e-003	2.6820e-003
tblVehicleEF	MHD	1.0200e-004	6.3600e-004
tblVehicleEF	MHD	4.6200e-004	9.4200e-004

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

tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	3.3800e-004	6.5200e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.29
tblVehicleEF	MHD	5.0200e-004	1.2700e-003
tblVehicleEF	MHD	9.5000e-003	0.01
tblVehicleEF	MHD	1.1800e-004	6.4800e-004
tblVehicleEF	MHD	4.6200e-004	9.4200e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	3.3800e-004	6.5200e-004
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.32
tblVehicleEF	OBUS	8.6550e-003	0.01
tblVehicleEF	OBUS	4.3820e-003	5.2770e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.56	0.25
tblVehicleEF	OBUS	0.54	0.39
tblVehicleEF	OBUS	2.26	4.82
tblVehicleEF	OBUS	78.18	76.59
tblVehicleEF	OBUS	1,334.33	1,203.91
tblVehicleEF	OBUS	19.41	69.07
tblVehicleEF	OBUS	0.30	0.15
tblVehicleEF	OBUS	0.98	0.55
tblVehicleEF	OBUS	0.75	1.95

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

tblVehicleEF	OBUS	9.9000e-005	1.4000e-005
tblVehicleEF	OBUS	6.5550e-003	2.4030e-003
tblVehicleEF	OBUS	2.0200e-004	8.9600e-004
tblVehicleEF	OBUS	9.5000e-005	1.3000e-005
tblVehicleEF	OBUS	6.2550e-003	2.2790e-003
tblVehicleEF	OBUS	1.8600e-004	8.2400e-004
tblVehicleEF	OBUS	1.7510e-003	1.3360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	9.5000e-004	7.4000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.11	0.30
tblVehicleEF	OBUS	7.4500e-004	7.4300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9200e-004	7.7500e-004
tblVehicleEF	OBUS	1.7510e-003	1.3360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	9.5000e-004	7.4000e-004
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.12	0.33
tblVehicleEF	OBUS	8.7320e-003	0.01
tblVehicleEF	OBUS	4.4740e-003	5.3660e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.55	0.24
tblVehicleEF	OBUS	0.55	0.39

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

tblVehicleEF	OBUS	2.14	4.58
tblVehicleEF	OBUS	77.32	80.14
tblVehicleEF	OBUS	1,334.35	1,203.91
tblVehicleEF	OBUS	19.21	69.07
tblVehicleEF	OBUS	0.28	0.16
tblVehicleEF	OBUS	0.92	0.52
tblVehicleEF	OBUS	0.74	1.92
tblVehicleEF	OBUS	8.8000e-005	1.2000e-005
tblVehicleEF	OBUS	6.5550e-003	2.4030e-003
tblVehicleEF	OBUS	2.0200e-004	8.9600e-004
tblVehicleEF	OBUS	8.4000e-005	1.1000e-005
tblVehicleEF	OBUS	6.2550e-003	2.2790e-003
tblVehicleEF	OBUS	1.8600e-004	8.2400e-004
tblVehicleEF	OBUS	2.3950e-003	1.8380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	1.2840e-003	1.0100e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.11	0.29
tblVehicleEF	OBUS	7.3700e-004	7.7700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9000e-004	7.7100e-004
tblVehicleEF	OBUS	2.3950e-003	1.8380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	1.2840e-003	1.0100e-003
tblVehicleEF	OBUS	0.04	0.04

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

tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.12	0.32
tblVehicleEF	OBUS	8.5700e-003	0.01
tblVehicleEF	OBUS	4.3550e-003	5.2500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.56	0.25
tblVehicleEF	OBUS	0.54	0.38
tblVehicleEF	OBUS	2.28	4.86
tblVehicleEF	OBUS	79.37	71.70
tblVehicleEF	OBUS	1,334.32	1,203.91
tblVehicleEF	OBUS	19.44	69.07
tblVehicleEF	OBUS	0.32	0.15
tblVehicleEF	OBUS	0.96	0.54
tblVehicleEF	OBUS	0.76	1.96
tblVehicleEF	OBUS	1.1500e-004	1.7000e-005
tblVehicleEF	OBUS	6.5550e-003	2.4030e-003
tblVehicleEF	OBUS	2.0200e-004	8.9600e-004
tblVehicleEF	OBUS	1.1000e-004	1.6000e-005
tblVehicleEF	OBUS	6.2550e-003	2.2790e-003
tblVehicleEF	OBUS	1.8600e-004	8.2400e-004
tblVehicleEF	OBUS	1.7730e-003	1.3380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	9.4400e-004	7.3000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.11	0.31
tblVehicleEF	OBUS	7.5600e-004	6.9600e-004

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

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9200e-004	7.7600e-004
tblVehicleEF	OBUS	1.7730e-003	1.3380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	9.4400e-004	7.3000e-004
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.12	0.34
tblVehicleEF	SBUS	0.09	0.83
tblVehicleEF	SBUS	9.1570e-003	0.02
tblVehicleEF	SBUS	8.2300e-003	0.07
tblVehicleEF	SBUS	3.34	8.49
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	1.12	8.61
tblVehicleEF	SBUS	359.37	1,085.60
tblVehicleEF	SBUS	1,076.06	1,065.54
tblVehicleEF	SBUS	6.66	58.07
tblVehicleEF	SBUS	3.47	7.75
tblVehicleEF	SBUS	5.09	3.55
tblVehicleEF	SBUS	0.75	11.66
tblVehicleEF	SBUS	4.4780e-003	6.9310e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.7000e-005	1.0190e-003
tblVehicleEF	SBUS	4.2840e-003	6.6310e-003
tblVehicleEF	SBUS	2.6190e-003	2.6550e-003
tblVehicleEF	SBUS	0.03	0.02

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

tblVehicleEF	SBUS	7.1000e-005	9.3700e-004
tblVehicleEF	SBUS	1.1510e-003	3.3910e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.40	1.01
tblVehicleEF	SBUS	6.6100e-004	1.9710e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.45
tblVehicleEF	SBUS	3.4360e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6000e-005	7.3000e-004
tblVehicleEF	SBUS	1.1510e-003	3.3910e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.57	1.46
tblVehicleEF	SBUS	6.6100e-004	1.9710e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.50
tblVehicleEF	SBUS	0.09	0.83
tblVehicleEF	SBUS	9.2670e-003	0.02
tblVehicleEF	SBUS	7.3960e-003	0.06
tblVehicleEF	SBUS	3.30	8.40
tblVehicleEF	SBUS	0.85	0.95
tblVehicleEF	SBUS	0.92	7.12
tblVehicleEF	SBUS	368.54	1,133.08
tblVehicleEF	SBUS	1,076.08	1,065.54
tblVehicleEF	SBUS	6.33	58.07
tblVehicleEF	SBUS	3.55	8.00

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

tblVehicleEF	SBUS	4.81	3.35
tblVehicleEF	SBUS	0.75	11.63
tblVehicleEF	SBUS	3.7810e-003	5.8420e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.7000e-005	1.0190e-003
tblVehicleEF	SBUS	3.6170e-003	5.5900e-003
tblVehicleEF	SBUS	2.6190e-003	2.6550e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.1000e-005	9.3700e-004
tblVehicleEF	SBUS	1.5800e-003	4.6620e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.40	1.01
tblVehicleEF	SBUS	8.9500e-004	2.6790e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.41
tblVehicleEF	SBUS	3.5220e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3000e-005	7.0500e-004
tblVehicleEF	SBUS	1.5800e-003	4.6620e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.57	1.46
tblVehicleEF	SBUS	8.9500e-004	2.6790e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.45
tblVehicleEF	SBUS	0.09	0.83

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

tblVehicleEF	SBUS	9.1270e-003	0.02
tblVehicleEF	SBUS	8.3500e-003	0.07
tblVehicleEF	SBUS	3.39	8.63
tblVehicleEF	SBUS	0.83	0.93
tblVehicleEF	SBUS	1.13	8.75
tblVehicleEF	SBUS	346.72	1,020.03
tblVehicleEF	SBUS	1,076.06	1,065.54
tblVehicleEF	SBUS	6.69	58.07
tblVehicleEF	SBUS	3.35	7.41
tblVehicleEF	SBUS	5.00	3.49
tblVehicleEF	SBUS	0.75	11.67
tblVehicleEF	SBUS	5.4400e-003	8.4330e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.7000e-005	1.0190e-003
tblVehicleEF	SBUS	5.2050e-003	8.0680e-003
tblVehicleEF	SBUS	2.6190e-003	2.6550e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.1000e-005	9.3700e-004
tblVehicleEF	SBUS	1.1240e-003	3.3080e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.40	1.01
tblVehicleEF	SBUS	6.4200e-004	1.9200e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.46
tblVehicleEF	SBUS	3.3160e-003	0.01
tblVehicleEF	SBUS	0.01	0.01

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

tblVehicleEF	SBUS	6.6000e-005	7.3200e-004
tblVehicleEF	SBUS	1.1240e-003	3.3080e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.57	1.47
tblVehicleEF	SBUS	6.4200e-004	1.9200e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.51
tblVehicleEF	UBUS	5.27	1.60
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	41.12	7.75
tblVehicleEF	UBUS	1.81	12.30
tblVehicleEF	UBUS	2,035.17	1,792.86
tblVehicleEF	UBUS	20.36	138.24
tblVehicleEF	UBUS	0.45	3.61
tblVehicleEF	UBUS	0.18	13.00
tblVehicleEF	UBUS	0.08	0.52
tblVehicleEF	UBUS	0.03	0.01
tblVehicleEF	UBUS	3.0710e-003	0.03
tblVehicleEF	UBUS	1.7000e-004	1.3330e-003
tblVehicleEF	UBUS	0.03	0.22
tblVehicleEF	UBUS	7.5850e-003	3.0000e-003
tblVehicleEF	UBUS	2.9250e-003	0.03
tblVehicleEF	UBUS	1.5700e-004	1.2250e-003
tblVehicleEF	UBUS	9.5600e-004	5.7880e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	7.3800e-004	3.5780e-003
tblVehicleEF	UBUS	0.08	0.41

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

tblVehicleEF	UBUS	2.7280e-003	0.03
tblVehicleEF	UBUS	0.11	0.94
tblVehicleEF	UBUS	3.8190e-003	8.5520e-003
tblVehicleEF	UBUS	2.0100e-004	1.6040e-003
tblVehicleEF	UBUS	9.5600e-004	5.7880e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	7.3800e-004	3.5780e-003
tblVehicleEF	UBUS	5.38	2.05
tblVehicleEF	UBUS	2.7280e-003	0.03
tblVehicleEF	UBUS	0.12	1.03
tblVehicleEF	UBUS	5.27	1.60
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	41.12	7.80
tblVehicleEF	UBUS	1.61	10.86
tblVehicleEF	UBUS	2,035.17	1,792.86
tblVehicleEF	UBUS	20.00	138.24
tblVehicleEF	UBUS	0.44	3.38
tblVehicleEF	UBUS	0.17	12.93
tblVehicleEF	UBUS	0.08	0.52
tblVehicleEF	UBUS	0.03	0.01
tblVehicleEF	UBUS	3.0710e-003	0.03
tblVehicleEF	UBUS	1.7000e-004	1.3330e-003
tblVehicleEF	UBUS	0.03	0.22
tblVehicleEF	UBUS	7.5850e-003	3.0000e-003
tblVehicleEF	UBUS	2.9250e-003	0.03
tblVehicleEF	UBUS	1.5700e-004	1.2250e-003
tblVehicleEF	UBUS	1.3190e-003	7.7730e-003
tblVehicleEF	UBUS	0.01	0.09

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

tblVehicleEF	UBUS	1.0200e-003	4.7590e-003
tblVehicleEF	UBUS	0.08	0.41
tblVehicleEF	UBUS	2.4620e-003	0.03
tblVehicleEF	UBUS	0.10	0.87
tblVehicleEF	UBUS	3.8190e-003	8.5530e-003
tblVehicleEF	UBUS	1.9800e-004	1.5790e-003
tblVehicleEF	UBUS	1.3190e-003	7.7730e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	1.0200e-003	4.7590e-003
tblVehicleEF	UBUS	5.38	2.06
tblVehicleEF	UBUS	2.4620e-003	0.03
tblVehicleEF	UBUS	0.11	0.96
tblVehicleEF	UBUS	5.27	1.60
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	41.12	7.74
tblVehicleEF	UBUS	1.85	12.55
tblVehicleEF	UBUS	2,035.17	1,792.86
tblVehicleEF	UBUS	20.42	138.24
tblVehicleEF	UBUS	0.45	3.54
tblVehicleEF	UBUS	0.18	13.02
tblVehicleEF	UBUS	0.08	0.52
tblVehicleEF	UBUS	0.03	0.01
tblVehicleEF	UBUS	3.0710e-003	0.03
tblVehicleEF	UBUS	1.7000e-004	1.3330e-003
tblVehicleEF	UBUS	0.03	0.22
tblVehicleEF	UBUS	7.5850e-003	3.0000e-003
tblVehicleEF	UBUS	2.9250e-003	0.03
tblVehicleEF	UBUS	1.5700e-004	1.2250e-003

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

tblVehicleEF	UBUS	9.6600e-004	6.4170e-003
tblVehicleEF	UBUS	0.01	0.11
tblVehicleEF	UBUS	7.1600e-004	3.7120e-003
tblVehicleEF	UBUS	0.08	0.40
tblVehicleEF	UBUS	3.3320e-003	0.04
tblVehicleEF	UBUS	0.11	0.96
tblVehicleEF	UBUS	3.8190e-003	8.5520e-003
tblVehicleEF	UBUS	2.0200e-004	1.6080e-003
tblVehicleEF	UBUS	9.6600e-004	6.4170e-003
tblVehicleEF	UBUS	0.01	0.11
tblVehicleEF	UBUS	7.1600e-004	3.7120e-003
tblVehicleEF	UBUS	5.38	2.05
tblVehicleEF	UBUS	3.3320e-003	0.04
tblVehicleEF	UBUS	0.12	1.05
tblVehicleTrips	ST_TR	4.91	6.39
tblVehicleTrips	ST_TR	46.12	49.97
tblVehicleTrips	SU_TR	4.09	5.86
tblVehicleTrips	SU_TR	21.10	25.24
tblVehicleTrips	WD_TR	5.44	6.65
tblVehicleTrips	WD_TR	37.75	42.70

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

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

Year	lb/day										lb/day					
2022	5.8405	72.0357	44.4540	0.1583	10.8001	2.4177	13.2178	4.1656	2.2286	6.3942	0.0000	16,329.4486	16,329.4486	3.6543	1.0943	16,746.9162
2023	1.1979	3.5871	13.2845	0.0521	4.9507	0.0373	4.9880	1.3248	0.0349	1.3597	0.0000	5,394.3972	5,394.3972	0.1792	0.3139	5,492.4136
2024	71.7836	14.5656	32.6299	0.0870	6.0908	0.5711	6.6618	1.6272	0.5325	2.1597	0.0000	8,778.2650	8,778.2650	0.9369	0.3256	8,898.7178
Maximum	**71.7836**	**72.0357**	**44.4540**	**0.1583**	**10.8001**	**2.4177**	**13.2178**	**4.1656**	**2.2286**	**6.3942**	**0.0000**	**16,329.4486**	**16,329.4486**	**3.6543**	**1.0943**	**16,746.9162**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.0895	41.4576	56.3522	0.1583	5.6412	0.2870	5.9282	2.0640	0.2808	2.3448	0.0000	16,329.4486	16,329.4486	3.6543	1.0943	16,746.9162
2023	1.1979	3.5871	13.2845	0.0521	4.5707	0.0373	4.6080	1.2315	0.0349	1.2664	0.0000	5,394.3972	5,394.3972	0.1792	0.3139	5,492.4136
2024	71.0538	15.2952	34.9941	0.0870	5.6216	0.1134	5.7350	1.5120	0.1099	1.6219	0.0000	8,778.2650	8,778.2650	0.9369	0.3256	8,898.7178
Maximum	**71.0538**	**41.4576**	**56.3522**	**0.1583**	**5.6412**	**0.2870**	**5.9282**	**2.0640**	**0.2808**	**2.3448**	**0.0000**	**16,329.4486**	**16,329.4486**	**3.6543**	**1.0943**	**16,746.9162**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.68**	**33.10**	**-15.78**	**0.00**	**27.51**	**85.53**	**34.57**	**32.46**	**84.78**	**47.21**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building and Asphalt Demolition and Demolition Reprocessing	Demolition	1/1/2022	3/4/2022	5	45	a
2	Building Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	b
3	Asphalt Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	c
4	Site Preparation	Site Preparation	3/24/2022	4/6/2022	5	10	d
5	Rough Grading	Grading	4/7/2022	4/20/2022	5	10	e
6	Rough Grading Soil Haul	Grading	4/7/2022	4/20/2022	5	10	f
7	Ground/Soil Improvement	Site Preparation	4/13/2022	6/7/2022	5	40	g
8	Fine Grading	Grading	5/31/2022	6/13/2022	5	10	h
9	Fine Grading Soil Haul	Grading	5/31/2022	6/13/2022	5	10	i
10	Utility Trenching	Trenching	6/14/2022	7/12/2022	5	21	j
11	Building Construction	Building Construction	7/13/2022	3/12/2024	5	435	k
12	Finishing/Landscaping	Trenching	1/10/2024	3/26/2024	5	55	l
13	Paving	Paving	1/24/2024	3/12/2024	5	35	m
14	Architectural Coating	Architectural Coating	1/24/2024	3/12/2024	5	35	n

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 25

Acres of Paving: 2.01

Residential Indoor: 954,832; Residential Outdoor: 15,914; Non-Residential Indoor: 18,657; Non-Residential Outdoor: 36,799; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building and Asphalt Demolition and Demolition Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building and Asphalt Demolition and Demolition Reprocessing	Excavators	2	8.00	307	0.38

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

Building and Asphalt Demolition and Demolition,Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Building and Asphalt Demolition and Demolition,Reprocessing	Skid Steer Loaders	1	8.00	73	0.37
Building and Asphalt Demolition and Demolition,Reprocessing	Tractors/Loaders/Backhoes	1	8.00	197	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Skid Steer Loaders	1	8.00	74	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	179	0.41
Rough Grading	Plate Compactors	1	8.00	157	0.43
Rough Grading	Rubber Tired Dozers	1	8.00	405	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	215	0.40
Rough Grading	Scrapers	2	8.00	407	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	424	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Ground/Soil Improvement	Bore/Drill Rigs	1	8.00	221	0.50
Ground/Soil Improvement	Rubber Tired Dozers	0	8.00	247	0.40
Ground/Soil Improvement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fine Grading	Excavators	0	8.00	158	0.38

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

Fine Grading	Graders	1	8.00	179	0.41
Fine Grading	Plate Compactors	1	8.00	157	0.43
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	407	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Fine Grading Soil Haul	Excavators	0	8.00	158	0.38
Fine Grading Soil Haul	Graders	0	8.00	187	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Utility Trenching	Excavators	1	8.00	265	0.38
Utility Trenching	Excavators	1	8.00	41	0.38
Utility Trenching	Skid Steer Loaders	1	8.00	90	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	241	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	109	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Finishing/Landscaping	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building and Asphalt Demolition and Debris Haul	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	330.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	2	5.00	0.00	1,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ground/Soil Improvement	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	1	3.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	396.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	79.00	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

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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

3.2 Building and Asphalt Demolition and Demolition Reprocessing -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8451	7.8193	7.4195	0.0286		0.2686	0.2686		0.2471	0.2471		2,762.3138	2,762.3138	0.8934		2,784.6485
Total	**0.8451**	**7.8193**	**7.4195**	**0.0286**		**0.2686**	**0.2686**		**0.2471**	**0.2471**		**2,762.3138**	**2,762.3138**	**0.8934**		**2,784.6485**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0334**	**0.1100**	**0.3605**	**1.3500e-003**	**0.1246**	**1.4700e-003**	**0.1260**	**0.0333**	**1.3900e-003**	**0.0347**		**139.9427**	**139.9427**	**4.7000e-003**	**8.1500e-003**	**142.4905**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5149	8.1383	14.9810	0.0286		0.1110	0.1110		0.1095	0.1095	0.0000	2,762.3138	2,762.3138	0.8934		2,784.6485
Total	**0.5149**	**8.1383**	**14.9810**	**0.0286**		**0.1110**	**0.1110**		**0.1095**	**0.1095**	**0.0000**	**2,762.3138**	**2,762.3138**	**0.8934**		**2,784.6485**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0120	8.7000e-004	0.0128	3.4800e-003	8.4000e-004	4.3100e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0334**	**0.1100**	**0.3605**	**1.3500e-003**	**0.1150**	**1.4700e-003**	**0.1165**	**0.0310**	**1.3900e-003**	**0.0324**		**139.9427**	**139.9427**	**4.7000e-003**	**8.1500e-003**	**142.4905**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.3 Building Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3315	0.0000	1.3315	0.2016	0.0000	0.2016			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.3315**	**0.0000**	**1.3315**	**0.2016**	**0.0000**	**0.2016**		**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	lb/day										lb/day					
Hauling	0.0252	0.9687	0.2721	3.7100e-003	0.1085	7.3300e-003	0.1159	0.0297	7.0100e-003	0.0367		420.6822	420.6822	0.0401	0.0674	441.7633
Vendor	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0252**	**0.9687**	**0.2721**	**3.7100e-003**	**0.1085**	**7.3300e-003**	**0.1159**	**0.0297**	**7.0100e-003**	**0.0367**		**420.6822**	**420.6822**	**0.0401**	**0.0674**	**441.7633**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5692	0.0000	0.5692	0.0862	0.0000	0.0862			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.5692**	**0.0000**	**0.5692**	**0.0862**	**0.0000**	**0.0862**	**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	lb/day										lb/day					
Hauling	0.0252	0.9687	0.2721	3.7100e-003	0.1011	7.3300e-003	0.1085	0.0279	7.0100e-003	0.0349		420.6822	420.6822	0.0401	0.0674	441.7633
Vendor	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0252**	**0.9687**	**0.2721**	**3.7100e-003**	**0.1011**	**7.3300e-003**	**0.1085**	**0.0279**	**7.0100e-003**	**0.0349**		**420.6822**	**420.6822**	**0.0401**	**0.0674**	**441.7633**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.4 Asphalt Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5655	0.0000	1.5655	0.2370	0.0000	0.2370			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.5655**	**0.0000**	**1.5655**	**0.2370**	**0.0000**	**0.2370**		**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	lb/day										lb/day					
Hauling	0.0297	1.1417	0.3207	4.3800e-003	0.1279	8.6400e-003	0.1365	0.0350	8.2600e-003	0.0433		495.8040	495.8040	0.0473	0.0794	520.6496
Vendor	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0297**	**1.1417**	**0.3207**	**4.3800e-003**	**0.1279**	**8.6400e-003**	**0.1365**	**0.0350**	**8.2600e-003**	**0.0433**		**495.8040**	**495.8040**	**0.0473**	**0.0794**	**520.6496**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6692	0.0000	0.6692	0.1013	0.0000	0.1013			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.6692**	**0.0000**	**0.6692**	**0.1013**	**0.0000**	**0.1013**	**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	lb/day										lb/day					
Hauling	0.0297	1.1417	0.3207	4.3800e-003	0.1192	8.6400e-003	0.1278	0.0329	8.2600e-003	0.0412		495.8040	495.8040	0.0473	0.0794	520.6496
Vendor	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0297**	**1.1417**	**0.3207**	**4.3800e-003**	**0.1192**	**8.6400e-003**	**0.1278**	**0.0329**	**8.2600e-003**	**0.0412**		**495.8040**	**495.8040**	**0.0473**	**0.0794**	**520.6496**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.5 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4841	4.6111	8.0895	0.0127		0.2111	0.2111		0.1942	0.1942		1,228.1683	1,228.1683	0.3972		1,238.0987
Total	**0.4841**	**4.6111**	**8.0895**	**0.0127**	**0.0000**	**0.2111**	**0.2111**	**0.0000**	**0.1942**	**0.1942**		**1,228.1683**	**1,228.1683**	**0.3972**		**1,238.0987**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0241	0.0162	0.2629	7.8000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		78.7769	78.7769	1.8500e-003	1.7700e-003	79.3508
Total	**0.0274**	**0.1059**	**0.2948**	**1.1600e-003**	**0.1022**	**1.3500e-003**	**0.1036**	**0.0274**	**1.2800e-003**	**0.0287**		**120.2484**	**120.2484**	**4.2300e-003**	**7.7100e-003**	**122.6528**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2211	5.7466	9.4504	0.0127		0.0912	0.0912		0.0894	0.0894	0.0000	1,228.1683	1,228.1683	0.3972		1,238.0987
Total	**0.2211**	**5.7466**	**9.4504**	**0.0127**	**0.0000**	**0.0912**	**0.0912**	**0.0000**	**0.0894**	**0.0894**	**0.0000**	**1,228.1683**	**1,228.1683**	**0.3972**		**1,238.0987**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0120	8.7000e-004	0.0128	3.4800e-003	8.4000e-004	4.3100e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0241	0.0162	0.2629	7.8000e-004	0.0824	4.8000e-004	0.0829	0.0220	4.4000e-004	0.0224		78.7769	78.7769	1.8500e-003	1.7700e-003	79.3508
Total	**0.0274**	**0.1059**	**0.2948**	**1.1600e-003**	**0.0944**	**1.3500e-003**	**0.0958**	**0.0255**	**1.2800e-003**	**0.0268**		**120.2484**	**120.2484**	**4.2300e-003**	**7.7100e-003**	**122.6528**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.6 Rough Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.2995	46.2603	30.0359	0.0616		1.9260	1.9260		1.7720	1.7720		5,964.3035	5,964.3035	1.9290		6,012.5279
Total	**4.2995**	**46.2603**	**30.0359**	**0.0616**	**8.6733**	**1.9260**	**10.5994**	**3.5965**	**1.7720**	**5.3685**		**5,964.3035**	**5,964.3035**	**1.9290**		**6,012.5279**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0451	0.0303	0.4930	1.4600e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		147.7067	147.7067	3.4700e-003	3.3200e-003	148.7828
Total	**0.0485**	**0.1201**	**0.5248**	**1.8400e-003**	**0.1805**	**1.7700e-003**	**0.1822**	**0.0482**	**1.6700e-003**	**0.0498**		**189.1783**	**189.1783**	**5.8500e-003**	**9.2600e-003**	**192.0848**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7079	0.0000	3.7079	1.5375	0.0000	1.5375			0.0000			0.0000
Off-Road	1.0048	16.2017	32.6546	0.0616		0.1005	0.1005		0.1005	0.1005	0.0000	5,964.3035	5,964.3035	1.9290		6,012.5279
Total	**1.0048**	**16.2017**	**32.6546**	**0.0616**	**3.7079**	**0.1005**	**3.8083**	**1.5375**	**0.1005**	**1.6380**	**0.0000**	**5,964.3035**	**5,964.3035**	**1.9290**		**6,012.5279**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0120	8.7000e-004	0.0128	3.4800e-003	8.4000e-004	4.3100e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0451	0.0303	0.4930	1.4600e-003	0.1546	9.0000e-004	0.1555	0.0413	8.3000e-004	0.0421		147.7067	147.7067	3.4700e-003	3.3200e-003	148.7828
Total	**0.0485**	**0.1201**	**0.5248**	**1.8400e-003**	**0.1665**	**1.7700e-003**	**0.1683**	**0.0447**	**1.6700e-003**	**0.0464**		**189.1783**	**189.1783**	**5.8500e-003**	**9.2600e-003**	**192.0848**

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

3.7 Rough Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0905	0.0000	0.0905	0.0137	0.0000	0.0137			0.0000			0.0000
Off-Road	0.6686	6.1241	4.9122	0.0217		0.2086	0.2086		0.1919	0.1919		2,101.7318	2,101.7318	0.6797		2,118.7254
Total	**0.6686**	**6.1241**	**4.9122**	**0.0217**	**0.0905**	**0.2086**	**0.2990**	**0.0137**	**0.1919**	**0.2056**		**2,101.7318**	**2,101.7318**	**0.6797**		**2,118.7254**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4051	15.5691	4.3733	0.0597	1.7441	0.1178	1.8619	0.4776	0.1127	0.5903		6,760.9641	6,760.9641	0.6445	1.0829	7,099.7676
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0150	0.0101	0.1643	4.9000e-004	0.0559	3.0000e-004	0.0562	0.0148	2.8000e-004	0.0151		49.2356	49.2356	1.1600e-003	1.1100e-003	49.5943
Total	**0.4201**	**15.5792**	**4.5376**	**0.0602**	**1.8000**	**0.1181**	**1.9181**	**0.4924**	**0.1130**	**0.6054**		**6,810.1997**	**6,810.1997**	**0.6456**	**1.0840**	**7,149.3619**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0387	0.0000	0.0387	5.8600e-003	0.0000	5.8600e-003			0.0000			0.0000
Off-Road	0.3756	5.6779	11.0616	0.0217		0.0457	0.0457		0.0447	0.0447	0.0000	2,101.7318	2,101.7318	0.6797		2,118.7254
Total	**0.3756**	**5.6779**	**11.0616**	**0.0217**	**0.0387**	**0.0457**	**0.0844**	**5.8600e-003**	**0.0447**	**0.0506**	**0.0000**	**2,101.7318**	**2,101.7318**	**0.6797**		**2,118.7254**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4051	15.5691	4.3733	0.0597	1.6251	0.1178	1.7429	0.4484	0.1127	0.5611		6,760.9641	6,760.9641	0.6445	1.0829	7,099.7676
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0150	0.0101	0.1643	4.9000e-004	0.0515	3.0000e-004	0.0518	0.0138	2.8000e-004	0.0140		49.2356	49.2356	1.1600e-003	1.1100e-003	49.5943
Total	**0.4201**	**15.5792**	**4.5376**	**0.0602**	**1.6766**	**0.1181**	**1.7947**	**0.4622**	**0.1130**	**0.5751**		**6,810.1997**	**6,810.1997**	**0.6456**	**1.0840**	**7,149.3619**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.8 Ground/Soil Improvement - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498		1,214.7998	1,214.7998	0.3929		1,224.6220
Total	**0.3888**	**3.9421**	**4.2791**	**0.0126**	**0.0000**	**0.1629**	**0.1629**	**0.0000**	**0.1498**	**0.1498**		**1,214.7998**	**1,214.7998**	**0.3929**		**1,224.6220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0150	0.0101	0.1643	4.9000e-004	0.0559	3.0000e-004	0.0562	0.0148	2.8000e-004	0.0151		49.2356	49.2356	1.1600e-003	1.1100e-003	49.5943
Total	**0.0150**	**0.0101**	**0.1643**	**4.9000e-004**	**0.0559**	**3.0000e-004**	**0.0562**	**0.0148**	**2.8000e-004**	**0.0151**		**49.2356**	**49.2356**	**1.1600e-003**	**1.1100e-003**	**49.5943**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2255	3.8687	7.4092	0.0126		0.0207	0.0207		0.0207	0.0207	0.0000	1,214.7998	1,214.7998	0.3929		1,224.6220
Total	**0.2255**	**3.8687**	**7.4092**	**0.0126**	**0.0000**	**0.0207**	**0.0207**	**0.0000**	**0.0207**	**0.0207**	**0.0000**	**1,214.7998**	**1,214.7998**	**0.3929**		**1,224.6220**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0150	0.0101	0.1643	4.9000e-004	0.0515	3.0000e-004	0.0518	0.0138	2.8000e-004	0.0140		49.2356	49.2356	1.1600e-003	1.1100e-003	49.5943
Total	**0.0150**	**0.0101**	**0.1643**	**4.9000e-004**	**0.0515**	**3.0000e-004**	**0.0518**	**0.0138**	**2.8000e-004**	**0.0140**		**49.2356**	**49.2356**	**1.1600e-003**	**1.1100e-003**	**49.5943**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.9 Fine Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3058	14.9509	8.7188	0.0232		0.5472	0.5472		0.5035	0.5035		2,244.3885	2,244.3885	0.7259		2,262.5355
Total	**1.3058**	**14.9509**	**8.7188**	**0.0232**	**1.5908**	**0.5472**	**2.1380**	**0.1718**	**0.5035**	**0.6752**		**2,244.3885**	**2,244.3885**	**0.7259**		**2,262.5355**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0241	0.0162	0.2629	7.8000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		78.7769	78.7769	1.8500e-003	1.7700e-003	79.3508
Total	**0.0274**	**0.1059**	**0.2948**	**1.1600e-003**	**0.1022**	**1.3500e-003**	**0.1036**	**0.0274**	**1.2800e-003**	**0.0287**		**120.2484**	**120.2484**	**4.2300e-003**	**7.7100e-003**	**122.6528**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6801	0.0000	0.6801	0.0734	0.0000	0.0734			0.0000			0.0000
Off-Road	0.3792	6.1145	12.3238	0.0232		0.0379	0.0379		0.0379	0.0379	0.0000	2,244.3885	2,244.3885	0.7259		2,262.5355
Total	**0.3792**	**6.1145**	**12.3238**	**0.0232**	**0.6801**	**0.0379**	**0.7180**	**0.0734**	**0.0379**	**0.1114**	**0.0000**	**2,244.3885**	**2,244.3885**	**0.7259**		**2,262.5355**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0120	8.7000e-004	0.0128	3.4800e-003	8.4000e-004	4.3100e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0241	0.0162	0.2629	7.8000e-004	0.0824	4.8000e-004	0.0829	0.0220	4.4000e-004	0.0224		78.7769	78.7769	1.8500e-003	1.7700e-003	79.3508
Total	**0.0274**	**0.1059**	**0.2948**	**1.1600e-003**	**0.0944**	**1.3500e-003**	**0.0958**	**0.0255**	**1.2800e-003**	**0.0268**		**120.2484**	**120.2484**	**4.2300e-003**	**7.7100e-003**	**122.6528**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.10 Fine Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0226	0.0000	0.0226	3.4200e-003	0.0000	3.4200e-003			0.0000			0.0000
Off-Road	0.3050	3.1691	1.8965	7.9200e-003		0.1093	0.1093		0.1006	0.1006		766.9693	766.9693	0.2481		773.1707
Total	**0.3050**	**3.1691**	**1.8965**	**7.9200e-003**	**0.0226**	**0.1093**	**0.1320**	**3.4200e-003**	**0.1006**	**0.1040**		**766.9693**	**766.9693**	**0.2481**		**773.1707**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1013	3.8923	1.0933	0.0149	0.4360	0.0295	0.4655	0.1194	0.0282	0.1476		1,690.2410	1,690.2410	0.1611	0.2707	1,774.9419
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.1103**	**3.8983**	**1.1919**	**0.0152**	**0.4696**	**0.0296**	**0.4992**	**0.1283**	**0.0284**	**0.1566**		**1,719.7824**	**1,719.7824**	**0.1618**	**0.2714**	**1,804.6985**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.6700e-003	0.0000	9.6700e-003	1.4600e-003	0.0000	1.4600e-003			0.0000			0.0000
Off-Road	0.1305	2.1045	4.2417	7.9200e-003		0.0131	0.0131		0.0131	0.0131	0.0000	766.9693	766.9693	0.2481		773.1707
Total	**0.1305**	**2.1045**	**4.2417**	**7.9200e-003**	**9.6700e-003**	**0.0131**	**0.0227**	**1.4600e-003**	**0.0131**	**0.0145**	**0.0000**	**766.9693**	**766.9693**	**0.2481**		**773.1707**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1013	3.8923	1.0933	0.0149	0.4063	0.0295	0.4357	0.1121	0.0282	0.1403		1,690.2410	1,690.2410	0.1611	0.2707	1,774.9419
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.1103**	**3.8983**	**1.1919**	**0.0152**	**0.4372**	**0.0296**	**0.4668**	**0.1204**	**0.0284**	**0.1487**		**1,719.7824**	**1,719.7824**	**0.1618**	**0.2714**	**1,804.6985**

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

3.11 Utility Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0920	10.6939	11.4685	0.0271		0.4468	0.4468		0.4110	0.4110		2,622.7566	2,622.7566	0.8483		2,643.9629
Total	**1.0920**	**10.6939**	**11.4685**	**0.0271**		**0.4468**	**0.4468**		**0.4110**	**0.4110**		**2,622.7566**	**2,622.7566**	**0.8483**		**2,643.9629**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0451	0.0303	0.4930	1.4600e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		147.7067	147.7067	3.4700e-003	3.3200e-003	148.7828
Total	**0.0451**	**0.0303**	**0.4930**	**1.4600e-003**	**0.1677**	**9.0000e-004**	**0.1686**	**0.0445**	**8.3000e-004**	**0.0453**		**147.7067**	**147.7067**	**3.4700e-003**	**3.3200e-003**	**148.7828**

Mitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5343	9.5598	16.5346	0.0271		0.0846	0.0846		0.0835	0.0835	0.0000	2,622.7566	2,622.7566	0.8483		2,643.9629
Total	**0.5343**	**9.5598**	**16.5346**	**0.0271**		**0.0846**	**0.0846**		**0.0835**	**0.0835**	**0.0000**	**2,622.7566**	**2,622.7566**	**0.8483**		**2,643.9629**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0451	0.0303	0.4930	1.4600e-003	0.1546	9.0000e-004	0.1555	0.0413	8.3000e-004	0.0421		147.7067	147.7067	3.4700e-003	3.3200e-003	148.7828
Total	**0.0451**	**0.0303**	**0.4930**	**1.4600e-003**	**0.1546**	**9.0000e-004**	**0.1555**	**0.0413**	**8.3000e-004**	**0.0421**		**147.7067**	**147.7067**	**3.4700e-003**	**3.3200e-003**	**148.7828**

3.12 Building Construction - 2022

Unmitigated Construction On-Site

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1363	3.6794	1.3064	0.0155	0.5243	0.0358	0.5601	0.1509	0.0342	0.1852		1,700.3321	1,700.3321	0.0974	0.2437	1,775.3823
Worker	1.1911	0.8003	13.0139	0.0386	4.4264	0.0239	4.4502	1.1739	0.0220	1.1958		3,899.4576	3,899.4576	0.0917	0.0876	3,927.8646
Total	**1.3274**	**4.4796**	**14.3203**	**0.0541**	**4.9507**	**0.0596**	**5.0103**	**1.3248**	**0.0562**	**1.3810**		**5,599.7898**	**5,599.7898**	**0.1892**	**0.3313**	**5,703.2469**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Category	lb/day										lb/day					
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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1363	3.6794	1.3064	0.0155	0.4907	0.0358	0.5265	0.1427	0.0342	0.1769		1,700.3321	1,700.3321	0.0974	0.2437	1,775.3823
Worker	1.1911	0.8003	13.0139	0.0386	4.0800	0.0239	4.1039	1.0889	0.0220	1.1108		3,899.4576	3,899.4576	0.0917	0.0876	3,927.8646
Total	**1.3274**	**4.4796**	**14.3203**	**0.0541**	**4.5707**	**0.0596**	**4.6303**	**1.2315**	**0.0562**	**1.2877**		**5,599.7898**	**5,599.7898**	**0.1892**	**0.3313**	**5,703.2469**

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

3.12 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0828	2.8738	1.1915	0.0147	0.5243	0.0147	0.5391	0.1509	0.0141	0.1650		1,619.0849	1,619.0849	0.0963	0.2323	1,690.7224
Worker	1.1151	0.7133	12.0931	0.0374	4.4264	0.0226	4.4489	1.1739	0.0208	1.1947		3,775.3123	3,775.3123	0.0830	0.0816	3,801.6913
Total	**1.1979**	**3.5871**	**13.2845**	**0.0521**	**4.9507**	**0.0373**	**4.9880**	**1.3248**	**0.0349**	**1.3597**		**5,394.3972**	**5,394.3972**	**0.1792**	**0.3139**	**5,492.4136**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0828	2.8738	1.1915	0.0147	0.4907	0.0147	0.5054	0.1426	0.0141	0.1567		1,619.0849	1,619.0849	0.0963	0.2323	1,690.7224
Worker	1.1151	0.7133	12.0931	0.0374	4.0800	0.0226	4.1026	1.0889	0.0208	1.1097		3,775.3123	3,775.3123	0.0830	0.0816	3,801.6913
Total	**1.1979**	**3.5871**	**13.2845**	**0.0521**	**4.5707**	**0.0373**	**4.6080**	**1.2315**	**0.0349**	**1.2664**		**5,394.3972**	**5,394.3972**	**0.1792**	**0.3139**	**5,492.4136**

3.12 Building Construction - 2024

Unmitigated Construction On-Site

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0816	2.8653	1.1826	0.0145	0.5243	0.0154	0.5397	0.1509	0.0148	0.1657		1,593.9682	1,593.9682	0.0973	0.2297	1,664.8458
Worker	1.0479	0.6406	11.2527	0.0362	4.4264	0.0214	4.4478	1.1739	0.0197	1.1936		3,655.4163	3,655.4163	0.0752	0.0763	3,680.0277
Total	**1.1295**	**3.5060**	**12.4353**	**0.0507**	**4.9507**	**0.0369**	**4.9875**	**1.3248**	**0.0345**	**1.3593**		**5,249.3844**	**5,249.3844**	**0.1725**	**0.3060**	**5,344.8735**

Mitigated Construction On-Site

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0816	2.8653	1.1826	0.0145	0.4907	0.0154	0.5061	0.1426	0.0148	0.1574		1,593.9682	1,593.9682	0.0973	0.2297	1,664.8458
Worker	1.0479	0.6406	11.2527	0.0362	4.0800	0.0214	4.1015	1.0889	0.0197	1.1086		3,655.4163	3,655.4163	0.0752	0.0763	3,680.0277
Total	**1.1295**	**3.5060**	**12.4353**	**0.0507**	**4.5707**	**0.0369**	**4.6075**	**1.2315**	**0.0345**	**1.2660**		**5,249.3844**	**5,249.3844**	**0.1725**	**0.3060**	**5,344.8735**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.13 Finishing/Landscaping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636		500.2654	500.2654	0.1618		504.3103
Total	**0.1803**	**1.4029**	**3.2650**	**5.1700e-003**		**0.0691**	**0.0691**		**0.0636**	**0.0636**		**500.2654**	**500.2654**	**0.1618**		**504.3103**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0787	2.1631	3.8331	5.1700e-003		0.0164	0.0164		0.0156	0.0156	0.0000	500.2654	500.2654	0.1618		504.3103
Total	**0.0787**	**2.1631**	**3.8331**	**5.1700e-003**		**0.0164**	**0.0164**		**0.0156**	**0.0156**	**0.0000**	**500.2654**	**500.2654**	**0.1618**		**504.3103**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.14 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9143**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**		**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0529	0.0324	0.5683	1.8300e-003	0.2236	1.0800e-003	0.2246	0.0593	1.0000e-003	0.0603		184.6170	184.6170	3.8000e-003	3.8500e-003	185.8600
Total	**0.0529**	**0.0324**	**0.5683**	**1.8300e-003**	**0.2236**	**1.0800e-003**	**0.2246**	**0.0593**	**1.0000e-003**	**0.0603**		**184.6170**	**184.6170**	**3.8000e-003**	**3.8500e-003**	**185.8600**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3794	8.4013	13.9949	0.0189		0.0507	0.0507		0.0507	0.0507	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4124**	**8.4013**	**13.9949**	**0.0189**		**0.0507**	**0.0507**		**0.0507**	**0.0507**	**0.0000**	**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0529	0.0324	0.5683	1.8300e-003	0.2061	1.0800e-003	0.2071	0.0550	1.0000e-003	0.0560		184.6170	184.6170	3.8000e-003	3.8500e-003	185.8600
Total	**0.0529**	**0.0324**	**0.5683**	**1.8300e-003**	**0.2061**	**1.0800e-003**	**0.2071**	**0.0550**	**1.0000e-003**	**0.0560**		**184.6170**	**184.6170**	**3.8000e-003**	**3.8500e-003**	**185.8600**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

3.15 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	69.1089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**69.2897**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2091	0.1278	2.2449	7.2100e-003	0.8830	4.2800e-003	0.8873	0.2342	3.9400e-003	0.2381		729.2371	729.2371	0.0150	0.0152	734.1469
Total	**0.2091**	**0.1278**	**2.2449**	**7.2100e-003**	**0.8830**	**4.2800e-003**	**0.8873**	**0.2342**	**3.9400e-003**	**0.2381**		**729.2371**	**729.2371**	**0.0150**	**0.0152**	**734.1469**

The Hub Fullerton Mitigated Construction Run - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	69.1089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**69.1634**	**1.0598**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2091	0.1278	2.2449	7.2100e-003	0.8139	4.2800e-003	0.8182	0.2172	3.9400e-003	0.2212		729.2371	729.2371	0.0150	0.0152	734.1469
Total	**0.2091**	**0.1278**	**2.2449**	**7.2100e-003**	**0.8139**	**4.2800e-003**	**0.8182**	**0.2172**	**3.9400e-003**	**0.2212**		**729.2371**	**729.2371**	**0.0150**	**0.0152**	**734.1469**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

The Hub Fullerton Mitigated Construction Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	68.46	1000sqft	1.57	68,464.00	0
Parking Lot	145.95	1000sqft	0.44	145,952.00	0
Apartments Mid Rise	420.00	Dwelling Unit	1.21	471,522.00	1201
Regional Shopping Center	12.44	1000sqft	0.29	12,438.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - based on info from applicant

Construction Phase - based on info from applicant

Off-road Equipment -

Off-road Equipment - No additional equipment for Demolition Debris Haul

Off-road Equipment - no additional equipment for debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - provided equipment from applicant would be electric

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Off-road Equipment - no additional equipment for demo debris haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - proxy for geopier equipment

Off-road Equipment -

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Trips and VMT - 2 water trucks/vt/day, based on soil haul and demo info from applicant

Demolition -

Grading -

Architectural Coating - based on info from applicant, see assumptions file for calculations, MM: 50 VOC paints

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186, MM: Tier 4 Interim for equipment >50 HP

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	6,219.00	36,799.00
tblArchitecturalCoating	ConstArea_Parking	12,865.00	8,757.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	318,277.00	15,914.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	230.00	435.00
tblConstructionPhase	NumDays	20.00	45.00

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

tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	18.00	35.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	40.00
tblEnergyUse	T24E	38.29	179.76
tblEnergyUse	T24E	2.62	2.93
tblEnergyUse	T24NG	5,633.62	5,911.46
tblEnergyUse	T24NG	0.94	0.95
tblFleetMix	HHD	4.9060e-003	0.02
tblFleetMix	HHD	4.9060e-003	0.02
tblFleetMix	HHD	4.9060e-003	0.02
tblFleetMix	HHD	4.9060e-003	0.02
tblFleetMix	LDA	0.55	0.57
tblFleetMix	LDA	0.55	0.57
tblFleetMix	LDA	0.55	0.57
tblFleetMix	LDA	0.55	0.57
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21

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

tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD2	6.6050e-003	5.7730e-003
tblFleetMix	LHD2	6.6050e-003	5.7730e-003
tblFleetMix	LHD2	6.6050e-003	5.7730e-003
tblFleetMix	LHD2	6.6050e-003	5.7730e-003
tblFleetMix	MCY	0.02	4.9530e-003
tblFleetMix	MCY	0.02	4.9530e-003
tblFleetMix	MCY	0.02	4.9530e-003
tblFleetMix	MCY	0.02	4.9530e-003
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MH	3.8690e-003	8.7700e-004
tblFleetMix	MH	3.8690e-003	8.7700e-004
tblFleetMix	MH	3.8690e-003	8.7700e-004
tblFleetMix	MH	3.8690e-003	8.7700e-004
tblFleetMix	MHD	0.01	0.03
tblFleetMix	MHD	0.01	0.03
tblFleetMix	MHD	0.01	0.03
tblFleetMix	MHD	0.01	0.03
tblFleetMix	OBUS	6.5700e-004	1.7920e-003
tblFleetMix	OBUS	6.5700e-004	1.7920e-003
tblFleetMix	OBUS	6.5700e-004	1.7920e-003

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

tblFleetMix	OBUS	6.5700e-004	1.7920e-003
tblFleetMix	SBUS	7.1300e-004	6.0200e-004
tblFleetMix	SBUS	7.1300e-004	6.0200e-004
tblFleetMix	SBUS	7.1300e-004	6.0200e-004
tblFleetMix	SBUS	7.1300e-004	6.0200e-004
tblFleetMix	UBUS	3.8100e-004	1.5090e-003
tblFleetMix	UBUS	3.8100e-004	1.5090e-003
tblFleetMix	UBUS	3.8100e-004	1.5090e-003
tblFleetMix	UBUS	3.8100e-004	1.5090e-003
tblGrading	AcresOfGrading	30.00	25.00
tblGrading	MaterialExported	0.00	8,000.00
tblGrading	MaterialExported	0.00	2,000.00
tblLandUse	LandUseSquareFeet	68,460.00	68,464.00
tblLandUse	LandUseSquareFeet	145,950.00	145,952.00
tblLandUse	LandUseSquareFeet	420,000.00	471,522.00
tblLandUse	LandUseSquareFeet	12,440.00	12,438.00
tblLandUse	LotAcreage	3.35	0.44
tblLandUse	LotAcreage	11.05	1.21
tblOffRoadEquipment	HorsePower	158.00	307.00
tblOffRoadEquipment	HorsePower	158.00	424.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	247.00	405.00
tblOffRoadEquipment	HorsePower	247.00	215.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	158.00	265.00
tblOffRoadEquipment	HorsePower	158.00	41.00

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

tblOffRoadEquipment	HorsePower	8.00	157.00
tblOffRoadEquipment	HorsePower	8.00	157.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	65.00	73.00
tblOffRoadEquipment	HorsePower	65.00	90.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	HorsePower	97.00	197.00
tblOffRoadEquipment	HorsePower	97.00	241.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	109.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.029
tblProjectCharacteristics	CO2IntensityFactor	390.98	531.44
tblProjectCharacteristics	N2OIntensityFactor	0.004	0.006
tblTripsAndVMT	HaulingTripNumber	277.00	280.00
tblTripsAndVMT	HaulingTripNumber	326.00	330.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleEF	HHD	0.03	0.44
tblVehicleEF	HHD	0.15	0.16
tblVehicleEF	HHD	1.0000e-006	0.06
tblVehicleEF	HHD	6.07	1.47
tblVehicleEF	HHD	0.64	1.26
tblVehicleEF	HHD	0.01	4.25

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

tblVehicleEF	HHD	1,012.56	3,818.18
tblVehicleEF	HHD	1,373.65	1,584.91
tblVehicleEF	HHD	0.08	13.84
tblVehicleEF	HHD	5.26	12.98
tblVehicleEF	HHD	2.42	1.77
tblVehicleEF	HHD	2.48	19.03
tblVehicleEF	HHD	2.9540e-003	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	6.0110e-003
tblVehicleEF	HHD	1.0000e-006	1.3200e-004
tblVehicleEF	HHD	2.8260e-003	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7620e-003	8.6690e-003
tblVehicleEF	HHD	0.02	5.7510e-003
tblVehicleEF	HHD	1.0000e-006	1.2100e-004
tblVehicleEF	HHD	4.0000e-006	1.1600e-004
tblVehicleEF	HHD	1.5600e-004	4.7330e-003
tblVehicleEF	HHD	0.40	0.35
tblVehicleEF	HHD	3.0000e-006	8.9000e-005
tblVehicleEF	HHD	0.03	0.08
tblVehicleEF	HHD	6.3000e-005	4.2800e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	HHD	9.2460e-003	0.03
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	2.0800e-004
tblVehicleEF	HHD	4.0000e-006	1.1600e-004
tblVehicleEF	HHD	1.5600e-004	4.7330e-003

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

tblVehicleEF	HHD	0.47	0.43
tblVehicleEF	HHD	3.0000e-006	8.9000e-005
tblVehicleEF	HHD	0.17	0.25
tblVehicleEF	HHD	6.3000e-005	4.2800e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	HHD	0.03	0.42
tblVehicleEF	HHD	0.15	0.16
tblVehicleEF	HHD	1.0000e-006	0.06
tblVehicleEF	HHD	5.98	1.07
tblVehicleEF	HHD	0.64	1.27
tblVehicleEF	HHD	9.6240e-003	4.05
tblVehicleEF	HHD	1,001.49	4,045.03
tblVehicleEF	HHD	1,373.65	1,584.91
tblVehicleEF	HHD	0.08	13.84
tblVehicleEF	HHD	5.04	13.40
tblVehicleEF	HHD	2.30	1.67
tblVehicleEF	HHD	2.48	19.02
tblVehicleEF	HHD	2.5700e-003	9.0000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	6.0110e-003
tblVehicleEF	HHD	1.0000e-006	1.3200e-004
tblVehicleEF	HHD	2.4590e-003	8.6100e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7620e-003	8.6690e-003
tblVehicleEF	HHD	0.02	5.7510e-003
tblVehicleEF	HHD	1.0000e-006	1.2100e-004
tblVehicleEF	HHD	5.0000e-006	1.6500e-004

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

tblVehicleEF	HHD	1.5800e-004	4.8270e-003
tblVehicleEF	HHD	0.43	0.33
tblVehicleEF	HHD	4.0000e-006	1.2300e-004
tblVehicleEF	HHD	0.03	0.08
tblVehicleEF	HHD	6.2000e-005	4.1200e-004
tblVehicleEF	HHD	4.0000e-006	0.08
tblVehicleEF	HHD	9.1420e-003	0.04
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	2.0400e-004
tblVehicleEF	HHD	5.0000e-006	1.6500e-004
tblVehicleEF	HHD	1.5800e-004	4.8270e-003
tblVehicleEF	HHD	0.50	0.41
tblVehicleEF	HHD	4.0000e-006	1.2300e-004
tblVehicleEF	HHD	0.17	0.26
tblVehicleEF	HHD	6.2000e-005	4.1200e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	HHD	0.03	0.48
tblVehicleEF	HHD	0.15	0.16
tblVehicleEF	HHD	1.0000e-006	0.06
tblVehicleEF	HHD	6.20	2.03
tblVehicleEF	HHD	0.64	1.26
tblVehicleEF	HHD	0.01	4.29
tblVehicleEF	HHD	1,027.85	3,504.93
tblVehicleEF	HHD	1,373.65	1,584.91
tblVehicleEF	HHD	0.08	13.84
tblVehicleEF	HHD	5.57	12.41
tblVehicleEF	HHD	2.38	1.74
tblVehicleEF	HHD	2.48	19.03

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

tblVehicleEF	HHD	3.4840e-003	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	6.0110e-003
tblVehicleEF	HHD	1.0000e-006	1.3200e-004
tblVehicleEF	HHD	3.3340e-003	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7620e-003	8.6690e-003
tblVehicleEF	HHD	0.02	5.7510e-003
tblVehicleEF	HHD	1.0000e-006	1.2100e-004
tblVehicleEF	HHD	4.0000e-006	1.1300e-004
tblVehicleEF	HHD	1.7200e-004	5.0410e-003
tblVehicleEF	HHD	0.37	0.38
tblVehicleEF	HHD	3.0000e-006	8.9000e-005
tblVehicleEF	HHD	0.03	0.08
tblVehicleEF	HHD	6.7000e-005	4.6700e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	HHD	9.3900e-003	0.03
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	2.0800e-004
tblVehicleEF	HHD	4.0000e-006	1.1300e-004
tblVehicleEF	HHD	1.7200e-004	5.0410e-003
tblVehicleEF	HHD	0.43	0.46
tblVehicleEF	HHD	3.0000e-006	8.9000e-005
tblVehicleEF	HHD	0.17	0.25
tblVehicleEF	HHD	6.7000e-005	4.6700e-004
tblVehicleEF	HHD	4.0000e-006	0.09
tblVehicleEF	LDA	1.8160e-003	3.2540e-003

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

tblVehicleEF	LDA	0.04	3.5200e-003
tblVehicleEF	LDA	0.55	0.48
tblVehicleEF	LDA	1.92	0.84
tblVehicleEF	LDA	241.39	231.86
tblVehicleEF	LDA	49.38	51.83
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.15	0.05
tblVehicleEF	LDA	1.4250e-003	1.8000e-003
tblVehicleEF	LDA	1.6760e-003	2.2330e-003
tblVehicleEF	LDA	1.3120e-003	1.6580e-003
tblVehicleEF	LDA	1.5410e-003	2.0530e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	6.5820e-003	8.1920e-003
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.17	0.05
tblVehicleEF	LDA	2.3880e-003	2.3210e-003
tblVehicleEF	LDA	4.8900e-004	5.3200e-004
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	9.5640e-003	0.01
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.19	0.05
tblVehicleEF	LDA	1.9350e-003	3.4390e-003
tblVehicleEF	LDA	0.04	3.1700e-003
tblVehicleEF	LDA	0.60	0.52

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

tblVehicleEF	LDA	1.66	0.73
tblVehicleEF	LDA	251.25	241.58
tblVehicleEF	LDA	48.90	51.83
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.04
tblVehicleEF	LDA	1.4250e-003	1.8000e-003
tblVehicleEF	LDA	1.6760e-003	2.2330e-003
tblVehicleEF	LDA	1.3120e-003	1.6580e-003
tblVehicleEF	LDA	1.5410e-003	2.0530e-003
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	6.9500e-003	8.6510e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.16	0.04
tblVehicleEF	LDA	2.4850e-003	2.4190e-003
tblVehicleEF	LDA	4.8400e-004	5.3000e-004
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.17	0.05
tblVehicleEF	LDA	1.7790e-003	3.1920e-003
tblVehicleEF	LDA	0.04	3.5920e-003
tblVehicleEF	LDA	0.53	0.47
tblVehicleEF	LDA	1.97	0.87
tblVehicleEF	LDA	237.76	228.27

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

tblVehicleEF	LDA	49.48	51.83
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.16	0.05
tblVehicleEF	LDA	1.4250e-003	1.8000e-003
tblVehicleEF	LDA	1.6760e-003	2.2330e-003
tblVehicleEF	LDA	1.3120e-003	1.6580e-003
tblVehicleEF	LDA	1.5410e-003	2.0530e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	6.4580e-003	8.0370e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.18	0.05
tblVehicleEF	LDA	2.3520e-003	2.2850e-003
tblVehicleEF	LDA	4.9000e-004	5.3300e-004
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	9.3830e-003	0.01
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.19	0.05
tblVehicleEF	LDT1	4.1470e-003	7.2360e-003
tblVehicleEF	LDT1	0.06	9.9520e-003
tblVehicleEF	LDT1	0.93	0.92
tblVehicleEF	LDT1	2.09	2.03
tblVehicleEF	LDT1	287.95	292.62
tblVehicleEF	LDT1	59.85	65.95
tblVehicleEF	LDT1	0.07	0.08

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

tblVehicleEF	LDT1	0.21	0.12
tblVehicleEF	LDT1	1.8420e-003	2.2960e-003
tblVehicleEF	LDT1	2.1690e-003	2.9420e-003
tblVehicleEF	LDT1	1.6940e-003	2.1130e-003
tblVehicleEF	LDT1	1.9940e-003	2.7050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.16	0.21
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.27	0.13
tblVehicleEF	LDT1	2.8490e-003	2.9360e-003
tblVehicleEF	LDT1	5.9200e-004	6.9500e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.16	0.21
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.29	0.15
tblVehicleEF	LDT1	4.3890e-003	7.6070e-003
tblVehicleEF	LDT1	0.05	8.9270e-003
tblVehicleEF	LDT1	1.00	0.99
tblVehicleEF	LDT1	1.80	1.75
tblVehicleEF	LDT1	298.07	304.46
tblVehicleEF	LDT1	59.30	65.95
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.20	0.11
tblVehicleEF	LDT1	1.8420e-003	2.2960e-003

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

tblVehicleEF	LDT1	2.1690e-003	2.9420e-003
tblVehicleEF	LDT1	1.6940e-003	2.1130e-003
tblVehicleEF	LDT1	1.9940e-003	2.7050e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.16	0.22
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.06	0.13
tblVehicleEF	LDT1	0.24	0.12
tblVehicleEF	LDT1	2.9500e-003	3.0550e-003
tblVehicleEF	LDT1	5.8700e-004	6.9000e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.16	0.22
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.06	0.13
tblVehicleEF	LDT1	0.26	0.13
tblVehicleEF	LDT1	4.0700e-003	7.1090e-003
tblVehicleEF	LDT1	0.06	0.01
tblVehicleEF	LDT1	0.90	0.89
tblVehicleEF	LDT1	2.15	2.09
tblVehicleEF	LDT1	284.21	288.25
tblVehicleEF	LDT1	59.97	65.95
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.21	0.12
tblVehicleEF	LDT1	1.8420e-003	2.2960e-003
tblVehicleEF	LDT1	2.1690e-003	2.9420e-003
tblVehicleEF	LDT1	1.6940e-003	2.1130e-003

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

tblVehicleEF	LDT1	1.9940e-003	2.7050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.17	0.24
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.08	0.16
tblVehicleEF	LDT1	0.27	0.14
tblVehicleEF	LDT1	2.8120e-003	2.8920e-003
tblVehicleEF	LDT1	5.9300e-004	6.9600e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.17	0.24
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.08	0.16
tblVehicleEF	LDT1	0.30	0.15
tblVehicleEF	LDT2	2.9810e-003	4.5940e-003
tblVehicleEF	LDT2	0.06	4.8100e-003
tblVehicleEF	LDT2	0.74	0.64
tblVehicleEF	LDT2	2.44	1.11
tblVehicleEF	LDT2	306.41	329.48
tblVehicleEF	LDT2	64.11	73.66
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.22	0.08
tblVehicleEF	LDT2	1.4590e-003	1.8470e-003
tblVehicleEF	LDT2	1.6550e-003	2.3090e-003
tblVehicleEF	LDT2	1.3430e-003	1.6990e-003
tblVehicleEF	LDT2	1.5220e-003	2.1230e-003
tblVehicleEF	LDT2	0.07	0.04

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

tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.25	0.06
tblVehicleEF	LDT2	3.0310e-003	3.2990e-003
tblVehicleEF	LDT2	6.3400e-004	7.5500e-004
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.27	0.07
tblVehicleEF	LDT2	3.1670e-003	4.8530e-003
tblVehicleEF	LDT2	0.05	4.3330e-003
tblVehicleEF	LDT2	0.80	0.69
tblVehicleEF	LDT2	2.10	0.96
tblVehicleEF	LDT2	316.15	342.98
tblVehicleEF	LDT2	63.50	73.66
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.21	0.07
tblVehicleEF	LDT2	1.4590e-003	1.8470e-003
tblVehicleEF	LDT2	1.6550e-003	2.3090e-003
tblVehicleEF	LDT2	1.3430e-003	1.6990e-003
tblVehicleEF	LDT2	1.5220e-003	2.1230e-003
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.10	0.06

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

tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.23	0.06
tblVehicleEF	LDT2	3.1280e-003	3.4350e-003
tblVehicleEF	LDT2	6.2800e-004	7.5200e-004
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.25	0.06
tblVehicleEF	LDT2	2.9220e-003	4.5070e-003
tblVehicleEF	LDT2	0.06	4.9080e-003
tblVehicleEF	LDT2	0.71	0.62
tblVehicleEF	LDT2	2.51	1.14
tblVehicleEF	LDT2	302.81	324.49
tblVehicleEF	LDT2	64.25	73.66
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.23	0.08
tblVehicleEF	LDT2	1.4590e-003	1.8470e-003
tblVehicleEF	LDT2	1.6550e-003	2.3090e-003
tblVehicleEF	LDT2	1.3430e-003	1.6990e-003
tblVehicleEF	LDT2	1.5220e-003	2.1230e-003
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.06

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

tblVehicleEF	LDT2	0.26	0.07
tblVehicleEF	LDT2	2.9960e-003	3.2490e-003
tblVehicleEF	LDT2	6.3600e-004	7.5500e-004
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.28	0.07
tblVehicleEF	LHD1	5.1790e-003	4.8760e-003
tblVehicleEF	LHD1	3.6570e-003	7.3850e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.14
tblVehicleEF	LHD1	0.42	0.58
tblVehicleEF	LHD1	0.96	2.05
tblVehicleEF	LHD1	8.87	9.05
tblVehicleEF	LHD1	633.58	582.71
tblVehicleEF	LHD1	11.39	30.08
tblVehicleEF	LHD1	0.06	0.08
tblVehicleEF	LHD1	0.58	0.97
tblVehicleEF	LHD1	0.30	0.88
tblVehicleEF	LHD1	8.3800e-004	8.7700e-004
tblVehicleEF	LHD1	9.8000e-003	0.01
tblVehicleEF	LHD1	6.3810e-003	9.4650e-003
tblVehicleEF	LHD1	2.2200e-004	7.7100e-004
tblVehicleEF	LHD1	8.0200e-004	8.3900e-004
tblVehicleEF	LHD1	2.4500e-003	2.5630e-003
tblVehicleEF	LHD1	6.0820e-003	9.0360e-003

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

tblVehicleEF	LHD1	2.0400e-004	7.0900e-004
tblVehicleEF	LHD1	1.8820e-003	2.4720e-003
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2380e-003	1.6210e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.15	0.26
tblVehicleEF	LHD1	0.06	0.21
tblVehicleEF	LHD1	8.6000e-005	9.0000e-005
tblVehicleEF	LHD1	6.1790e-003	5.7060e-003
tblVehicleEF	LHD1	1.1300e-004	3.3900e-004
tblVehicleEF	LHD1	1.8820e-003	2.4720e-003
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.2380e-003	1.6210e-003
tblVehicleEF	LHD1	0.05	0.07
tblVehicleEF	LHD1	0.15	0.26
tblVehicleEF	LHD1	0.07	0.23
tblVehicleEF	LHD1	5.1900e-003	4.8760e-003
tblVehicleEF	LHD1	3.7120e-003	7.5120e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.18	0.14
tblVehicleEF	LHD1	0.42	0.59
tblVehicleEF	LHD1	0.92	1.97
tblVehicleEF	LHD1	8.87	9.05
tblVehicleEF	LHD1	633.59	582.71
tblVehicleEF	LHD1	11.32	30.08
tblVehicleEF	LHD1	0.06	0.08

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

tblVehicleEF	LHD1	0.55	0.92
tblVehicleEF	LHD1	0.28	0.84
tblVehicleEF	LHD1	8.3800e-004	8.7700e-004
tblVehicleEF	LHD1	9.8000e-003	0.01
tblVehicleEF	LHD1	6.3810e-003	9.4650e-003
tblVehicleEF	LHD1	2.2200e-004	7.7100e-004
tblVehicleEF	LHD1	8.0200e-004	8.3900e-004
tblVehicleEF	LHD1	2.4500e-003	2.5630e-003
tblVehicleEF	LHD1	6.0820e-003	9.0360e-003
tblVehicleEF	LHD1	2.0400e-004	7.0900e-004
tblVehicleEF	LHD1	2.6310e-003	3.4440e-003
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6730e-003	2.1800e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.14	0.25
tblVehicleEF	LHD1	0.06	0.20
tblVehicleEF	LHD1	8.6000e-005	9.0000e-005
tblVehicleEF	LHD1	6.1790e-003	5.7070e-003
tblVehicleEF	LHD1	1.1200e-004	3.3800e-004
tblVehicleEF	LHD1	2.6310e-003	3.4440e-003
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.6730e-003	2.1800e-003
tblVehicleEF	LHD1	0.05	0.07
tblVehicleEF	LHD1	0.14	0.25
tblVehicleEF	LHD1	0.07	0.22
tblVehicleEF	LHD1	5.1770e-003	4.8760e-003

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

tblVehicleEF	LHD1	3.6420e-003	7.3500e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.14
tblVehicleEF	LHD1	0.41	0.58
tblVehicleEF	LHD1	0.97	2.06
tblVehicleEF	LHD1	8.87	9.05
tblVehicleEF	LHD1	633.58	582.71
tblVehicleEF	LHD1	11.40	30.08
tblVehicleEF	LHD1	0.06	0.08
tblVehicleEF	LHD1	0.57	0.96
tblVehicleEF	LHD1	0.30	0.89
tblVehicleEF	LHD1	8.3800e-004	8.7700e-004
tblVehicleEF	LHD1	9.8000e-003	0.01
tblVehicleEF	LHD1	6.3810e-003	9.4650e-003
tblVehicleEF	LHD1	2.2200e-004	7.7100e-004
tblVehicleEF	LHD1	8.0200e-004	8.3900e-004
tblVehicleEF	LHD1	2.4500e-003	2.5630e-003
tblVehicleEF	LHD1	6.0820e-003	9.0360e-003
tblVehicleEF	LHD1	2.0400e-004	7.0900e-004
tblVehicleEF	LHD1	1.9320e-003	2.5350e-003
tblVehicleEF	LHD1	0.07	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2470e-003	1.6290e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.16	0.29
tblVehicleEF	LHD1	0.06	0.21
tblVehicleEF	LHD1	8.6000e-005	9.0000e-005
tblVehicleEF	LHD1	6.1790e-003	5.7060e-003

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

tblVehicleEF	LHD1	1.1300e-004	3.4000e-004
tblVehicleEF	LHD1	1.9320e-003	2.5350e-003
tblVehicleEF	LHD1	0.07	0.10
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.2470e-003	1.6290e-003
tblVehicleEF	LHD1	0.05	0.07
tblVehicleEF	LHD1	0.16	0.29
tblVehicleEF	LHD1	0.07	0.23
tblVehicleEF	LHD2	3.7120e-003	3.5130e-003
tblVehicleEF	LHD2	2.8570e-003	3.0250e-003
tblVehicleEF	LHD2	9.0450e-003	6.4370e-003
tblVehicleEF	LHD2	0.15	0.13
tblVehicleEF	LHD2	0.31	0.27
tblVehicleEF	LHD2	0.65	1.11
tblVehicleEF	LHD2	13.46	13.66
tblVehicleEF	LHD2	642.40	600.10
tblVehicleEF	LHD2	8.94	25.96
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.66	0.55
tblVehicleEF	LHD2	0.21	0.47
tblVehicleEF	LHD2	1.2800e-003	1.1390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.6040e-003	8.3740e-003
tblVehicleEF	LHD2	1.2800e-004	3.9500e-004
tblVehicleEF	LHD2	1.2250e-003	1.0900e-003
tblVehicleEF	LHD2	2.6460e-003	2.6730e-003
tblVehicleEF	LHD2	9.1750e-003	7.9990e-003
tblVehicleEF	LHD2	1.1800e-004	3.6300e-004

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

tblVehicleEF	LHD2	1.2060e-003	9.0300e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	8.2300e-004	6.4300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.09	0.06
tblVehicleEF	LHD2	0.04	0.09
tblVehicleEF	LHD2	1.2900e-004	1.3300e-004
tblVehicleEF	LHD2	6.2140e-003	5.8410e-003
tblVehicleEF	LHD2	8.9000e-005	2.7900e-004
tblVehicleEF	LHD2	1.2060e-003	9.0300e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.2300e-004	6.4300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.06
tblVehicleEF	LHD2	0.05	0.10
tblVehicleEF	LHD2	3.7190e-003	3.5130e-003
tblVehicleEF	LHD2	2.8800e-003	3.0530e-003
tblVehicleEF	LHD2	8.7610e-003	6.2440e-003
tblVehicleEF	LHD2	0.15	0.13
tblVehicleEF	LHD2	0.31	0.27
tblVehicleEF	LHD2	0.62	1.06
tblVehicleEF	LHD2	13.46	13.66
tblVehicleEF	LHD2	642.40	600.10
tblVehicleEF	LHD2	8.90	25.96
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.62	0.52

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

tblVehicleEF	LHD2	0.20	0.45
tblVehicleEF	LHD2	1.2800e-003	1.1390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.6040e-003	8.3740e-003
tblVehicleEF	LHD2	1.2800e-004	3.9500e-004
tblVehicleEF	LHD2	1.2250e-003	1.0900e-003
tblVehicleEF	LHD2	2.6460e-003	2.6730e-003
tblVehicleEF	LHD2	9.1750e-003	7.9990e-003
tblVehicleEF	LHD2	1.1800e-004	3.6300e-004
tblVehicleEF	LHD2	1.6890e-003	1.2670e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	1.1130e-003	8.6800e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.08	0.06
tblVehicleEF	LHD2	0.04	0.08
tblVehicleEF	LHD2	1.2900e-004	1.3300e-004
tblVehicleEF	LHD2	6.2140e-003	5.8410e-003
tblVehicleEF	LHD2	8.8000e-005	2.7900e-004
tblVehicleEF	LHD2	1.6890e-003	1.2670e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1130e-003	8.6800e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.08	0.06
tblVehicleEF	LHD2	0.05	0.09
tblVehicleEF	LHD2	3.7100e-003	3.5130e-003
tblVehicleEF	LHD2	2.8500e-003	3.0170e-003

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

tblVehicleEF	LHD2	9.1040e-003	6.4770e-003
tblVehicleEF	LHD2	0.15	0.13
tblVehicleEF	LHD2	0.31	0.27
tblVehicleEF	LHD2	0.65	1.11
tblVehicleEF	LHD2	13.46	13.66
tblVehicleEF	LHD2	642.39	600.10
tblVehicleEF	LHD2	8.95	25.96
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.65	0.54
tblVehicleEF	LHD2	0.21	0.47
tblVehicleEF	LHD2	1.2800e-003	1.1390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.6040e-003	8.3740e-003
tblVehicleEF	LHD2	1.2800e-004	3.9500e-004
tblVehicleEF	LHD2	1.2250e-003	1.0900e-003
tblVehicleEF	LHD2	2.6460e-003	2.6730e-003
tblVehicleEF	LHD2	9.1750e-003	7.9990e-003
tblVehicleEF	LHD2	1.1800e-004	3.6300e-004
tblVehicleEF	LHD2	1.2110e-003	8.9600e-004
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	8.1400e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.04	0.09
tblVehicleEF	LHD2	1.2900e-004	1.3300e-004
tblVehicleEF	LHD2	6.2140e-003	5.8410e-003
tblVehicleEF	LHD2	8.9000e-005	2.8000e-004

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

tblVehicleEF	LHD2	1.2110e-003	8.9600e-004
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1400e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.05	0.10
tblVehicleEF	MCY	0.35	0.49
tblVehicleEF	MCY	0.23	0.15
tblVehicleEF	MCY	18.16	17.95
tblVehicleEF	MCY	8.50	9.61
tblVehicleEF	MCY	214.64	178.67
tblVehicleEF	MCY	59.14	44.17
tblVehicleEF	MCY	1.12	1.11
tblVehicleEF	MCY	0.26	0.31
tblVehicleEF	MCY	2.2320e-003	2.2470e-003
tblVehicleEF	MCY	2.9930e-003	3.4860e-003
tblVehicleEF	MCY	2.0840e-003	2.0980e-003
tblVehicleEF	MCY	2.8100e-003	3.2740e-003
tblVehicleEF	MCY	1.15	1.12
tblVehicleEF	MCY	0.68	0.65
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	2.35	2.34
tblVehicleEF	MCY	0.53	0.60
tblVehicleEF	MCY	1.79	2.02
tblVehicleEF	MCY	2.1240e-003	2.1510e-003
tblVehicleEF	MCY	5.8500e-004	6.5800e-004
tblVehicleEF	MCY	1.15	1.12

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

tblVehicleEF	MCY	0.68	0.65
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	2.93	2.92
tblVehicleEF	MCY	0.53	0.60
tblVehicleEF	MCY	1.95	2.20
tblVehicleEF	MCY	0.34	0.48
tblVehicleEF	MCY	0.21	0.13
tblVehicleEF	MCY	17.50	17.31
tblVehicleEF	MCY	7.78	8.84
tblVehicleEF	MCY	213.41	178.67
tblVehicleEF	MCY	57.38	44.17
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.25	0.29
tblVehicleEF	MCY	2.2320e-003	2.2470e-003
tblVehicleEF	MCY	2.9930e-003	3.4860e-003
tblVehicleEF	MCY	2.0840e-003	2.0980e-003
tblVehicleEF	MCY	2.8100e-003	3.2740e-003
tblVehicleEF	MCY	1.72	1.69
tblVehicleEF	MCY	0.72	0.70
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	2.30	2.29
tblVehicleEF	MCY	0.50	0.56
tblVehicleEF	MCY	1.60	1.82
tblVehicleEF	MCY	2.1120e-003	2.1390e-003
tblVehicleEF	MCY	5.6800e-004	6.3900e-004
tblVehicleEF	MCY	1.72	1.69
tblVehicleEF	MCY	0.72	0.70
tblVehicleEF	MCY	1.11	1.09

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

tblVehicleEF	MCY	2.86	2.85
tblVehicleEF	MCY	0.50	0.56
tblVehicleEF	MCY	1.74	1.98
tblVehicleEF	MCY	0.35	0.49
tblVehicleEF	MCY	0.24	0.15
tblVehicleEF	MCY	18.25	18.04
tblVehicleEF	MCY	8.62	9.73
tblVehicleEF	MCY	214.83	178.67
tblVehicleEF	MCY	59.46	44.17
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.27	0.31
tblVehicleEF	MCY	2.2320e-003	2.2470e-003
tblVehicleEF	MCY	2.9930e-003	3.4860e-003
tblVehicleEF	MCY	2.0840e-003	2.0980e-003
tblVehicleEF	MCY	2.8100e-003	3.2740e-003
tblVehicleEF	MCY	1.27	1.25
tblVehicleEF	MCY	0.87	0.84
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.36	2.35
tblVehicleEF	MCY	0.62	0.69
tblVehicleEF	MCY	1.83	2.06
tblVehicleEF	MCY	2.1260e-003	2.1520e-003
tblVehicleEF	MCY	5.8800e-004	6.6100e-004
tblVehicleEF	MCY	1.27	1.25
tblVehicleEF	MCY	0.87	0.84
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.94	2.93
tblVehicleEF	MCY	0.62	0.69

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

tblVehicleEF	MCY	1.99	2.24
tblVehicleEF	MDV	3.7210e-003	8.2720e-003
tblVehicleEF	MDV	0.07	0.01
tblVehicleEF	MDV	0.82	0.96
tblVehicleEF	MDV	2.69	1.95
tblVehicleEF	MDV	379.98	450.89
tblVehicleEF	MDV	78.00	98.57
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.27	0.17
tblVehicleEF	MDV	1.5390e-003	1.8710e-003
tblVehicleEF	MDV	1.7140e-003	2.2680e-003
tblVehicleEF	MDV	1.4190e-003	1.7240e-003
tblVehicleEF	MDV	1.5760e-003	2.0860e-003
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.31	0.14
tblVehicleEF	MDV	3.7560e-003	4.5120e-003
tblVehicleEF	MDV	7.7200e-004	1.0190e-003
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.34	0.15
tblVehicleEF	MDV	3.9510e-003	8.7240e-003

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

tblVehicleEF	MDV	0.06	9.3780e-003
tblVehicleEF	MDV	0.89	1.04
tblVehicleEF	MDV	2.31	1.69
tblVehicleEF	MDV	390.11	468.83
tblVehicleEF	MDV	77.30	98.57
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.25	0.16
tblVehicleEF	MDV	1.5390e-003	1.8710e-003
tblVehicleEF	MDV	1.7140e-003	2.2680e-003
tblVehicleEF	MDV	1.4190e-003	1.7240e-003
tblVehicleEF	MDV	1.5760e-003	2.0860e-003
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.28	0.13
tblVehicleEF	MDV	3.8560e-003	4.6930e-003
tblVehicleEF	MDV	7.6500e-004	1.0150e-003
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.31	0.14
tblVehicleEF	MDV	3.6470e-003	8.1180e-003
tblVehicleEF	MDV	0.07	0.01
tblVehicleEF	MDV	0.80	0.93

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

tblVehicleEF	MDV	2.77	2.00
tblVehicleEF	MDV	376.25	444.26
tblVehicleEF	MDV	78.15	98.57
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.28	0.17
tblVehicleEF	MDV	1.5390e-003	1.8710e-003
tblVehicleEF	MDV	1.7140e-003	2.2680e-003
tblVehicleEF	MDV	1.4190e-003	1.7240e-003
tblVehicleEF	MDV	1.5760e-003	2.0860e-003
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.13	0.15
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.06	0.11
tblVehicleEF	MDV	0.32	0.14
tblVehicleEF	MDV	3.7190e-003	4.4460e-003
tblVehicleEF	MDV	7.7300e-004	1.0200e-003
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.13	0.15
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.06	0.11
tblVehicleEF	MDV	0.35	0.16
tblVehicleEF	MH	6.9350e-003	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.73	1.27
tblVehicleEF	MH	1.75	4.43
tblVehicleEF	MH	1,403.51	1,096.02

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

tblVehicleEF	MH	16.91	56.63
tblVehicleEF	MH	1.27	1.16
tblVehicleEF	MH	0.23	0.68
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1600e-004	9.0200e-004
tblVehicleEF	MH	3.3090e-003	3.2400e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.9900e-004	8.2900e-004
tblVehicleEF	MH	0.62	0.74
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.28	0.33
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.08	0.26
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6700e-004	6.4300e-004
tblVehicleEF	MH	0.62	0.74
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.28	0.33
tblVehicleEF	MH	0.06	0.08
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.09	0.29
tblVehicleEF	MH	7.0670e-003	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.74	1.30
tblVehicleEF	MH	1.66	4.20
tblVehicleEF	MH	1,403.53	1,096.02

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

tblVehicleEF	MH	16.76	56.63
tblVehicleEF	MH	1.19	1.08
tblVehicleEF	MH	0.22	0.65
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1600e-004	9.0200e-004
tblVehicleEF	MH	3.3090e-003	3.2400e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.9900e-004	8.2900e-004
tblVehicleEF	MH	0.83	0.99
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.38	0.45
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	9.8870e-003	0.02
tblVehicleEF	MH	0.08	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6600e-004	6.3900e-004
tblVehicleEF	MH	0.83	0.99
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.38	0.45
tblVehicleEF	MH	0.06	0.08
tblVehicleEF	MH	9.8870e-003	0.02
tblVehicleEF	MH	0.08	0.27
tblVehicleEF	MH	6.8950e-003	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.72	1.26
tblVehicleEF	MH	1.77	4.46
tblVehicleEF	MH	1,403.50	1,096.02

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

tblVehicleEF	MH	16.93	56.63
tblVehicleEF	MH	1.24	1.14
tblVehicleEF	MH	0.23	0.68
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1600e-004	9.0200e-004
tblVehicleEF	MH	3.3090e-003	3.2400e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.9900e-004	8.2900e-004
tblVehicleEF	MH	0.66	0.80
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.29	0.34
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.08	0.26
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6800e-004	6.4400e-004
tblVehicleEF	MH	0.66	0.80
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.29	0.34
tblVehicleEF	MH	0.06	0.08
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.09	0.29
tblVehicleEF	MHD	4.6040e-003	0.02
tblVehicleEF	MHD	1.2190e-003	2.6670e-003
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.38	0.32
tblVehicleEF	MHD	0.17	0.24

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

tblVehicleEF	MHD	1.13	4.63
tblVehicleEF	MHD	52.64	143.49
tblVehicleEF	MHD	993.27	1,123.36
tblVehicleEF	MHD	11.92	56.66
tblVehicleEF	MHD	0.25	0.37
tblVehicleEF	MHD	0.96	0.68
tblVehicleEF	MHD	1.55	11.00
tblVehicleEF	MHD	1.7500e-004	6.9000e-005
tblVehicleEF	MHD	6.0480e-003	2.8070e-003
tblVehicleEF	MHD	1.1100e-004	6.9200e-004
tblVehicleEF	MHD	1.6700e-004	6.6000e-005
tblVehicleEF	MHD	5.7810e-003	2.6820e-003
tblVehicleEF	MHD	1.0200e-004	6.3600e-004
tblVehicleEF	MHD	4.6900e-004	9.3500e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	3.4100e-004	6.5100e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.29
tblVehicleEF	MHD	5.0100e-004	1.3800e-003
tblVehicleEF	MHD	9.5000e-003	0.01
tblVehicleEF	MHD	1.1800e-004	6.4800e-004
tblVehicleEF	MHD	4.6900e-004	9.3500e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	3.4100e-004	6.5100e-004
tblVehicleEF	MHD	0.01	0.04

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

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.31
tblVehicleEF	MHD	4.3670e-003	0.01
tblVehicleEF	MHD	1.2410e-003	2.6950e-003
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.31	0.24
tblVehicleEF	MHD	0.17	0.24
tblVehicleEF	MHD	1.08	4.41
tblVehicleEF	MHD	52.58	151.98
tblVehicleEF	MHD	993.27	1,123.36
tblVehicleEF	MHD	11.83	56.66
tblVehicleEF	MHD	0.24	0.38
tblVehicleEF	MHD	0.90	0.65
tblVehicleEF	MHD	1.55	10.97
tblVehicleEF	MHD	1.5000e-004	5.8000e-005
tblVehicleEF	MHD	6.0480e-003	2.8070e-003
tblVehicleEF	MHD	1.1100e-004	6.9200e-004
tblVehicleEF	MHD	1.4300e-004	5.5000e-005
tblVehicleEF	MHD	5.7810e-003	2.6820e-003
tblVehicleEF	MHD	1.0200e-004	6.3600e-004
tblVehicleEF	MHD	6.6100e-004	1.3170e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6400e-004	8.8900e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.28
tblVehicleEF	MHD	5.0100e-004	1.4600e-003

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

tblVehicleEF	MHD	9.5000e-003	0.01
tblVehicleEF	MHD	1.1700e-004	6.4400e-004
tblVehicleEF	MHD	6.6100e-004	1.3170e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	4.6400e-004	8.8900e-004
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.30
tblVehicleEF	MHD	4.9470e-003	0.02
tblVehicleEF	MHD	1.2110e-003	2.6590e-003
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.47	0.45
tblVehicleEF	MHD	0.17	0.24
tblVehicleEF	MHD	1.14	4.67
tblVehicleEF	MHD	52.73	131.74
tblVehicleEF	MHD	993.27	1,123.36
tblVehicleEF	MHD	11.94	56.66
tblVehicleEF	MHD	0.26	0.35
tblVehicleEF	MHD	0.94	0.67
tblVehicleEF	MHD	1.55	11.01
tblVehicleEF	MHD	2.1000e-004	8.4000e-005
tblVehicleEF	MHD	6.0480e-003	2.8070e-003
tblVehicleEF	MHD	1.1100e-004	6.9200e-004
tblVehicleEF	MHD	2.0100e-004	8.0000e-005
tblVehicleEF	MHD	5.7810e-003	2.6820e-003
tblVehicleEF	MHD	1.0200e-004	6.3600e-004
tblVehicleEF	MHD	4.6200e-004	9.4200e-004

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

tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	3.3800e-004	6.5200e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.29
tblVehicleEF	MHD	5.0200e-004	1.2700e-003
tblVehicleEF	MHD	9.5000e-003	0.01
tblVehicleEF	MHD	1.1800e-004	6.4800e-004
tblVehicleEF	MHD	4.6200e-004	9.4200e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	3.3800e-004	6.5200e-004
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.32
tblVehicleEF	OBUS	8.6550e-003	0.01
tblVehicleEF	OBUS	4.3820e-003	5.2770e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.56	0.25
tblVehicleEF	OBUS	0.54	0.39
tblVehicleEF	OBUS	2.26	4.82
tblVehicleEF	OBUS	78.18	76.59
tblVehicleEF	OBUS	1,334.33	1,203.91
tblVehicleEF	OBUS	19.41	69.07
tblVehicleEF	OBUS	0.30	0.15
tblVehicleEF	OBUS	0.98	0.55
tblVehicleEF	OBUS	0.75	1.95

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

tblVehicleEF	OBUS	9.9000e-005	1.4000e-005
tblVehicleEF	OBUS	6.5550e-003	2.4030e-003
tblVehicleEF	OBUS	2.0200e-004	8.9600e-004
tblVehicleEF	OBUS	9.5000e-005	1.3000e-005
tblVehicleEF	OBUS	6.2550e-003	2.2790e-003
tblVehicleEF	OBUS	1.8600e-004	8.2400e-004
tblVehicleEF	OBUS	1.7510e-003	1.3360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	9.5000e-004	7.4000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.11	0.30
tblVehicleEF	OBUS	7.4500e-004	7.4300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9200e-004	7.7500e-004
tblVehicleEF	OBUS	1.7510e-003	1.3360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	9.5000e-004	7.4000e-004
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.12	0.33
tblVehicleEF	OBUS	8.7320e-003	0.01
tblVehicleEF	OBUS	4.4740e-003	5.3660e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.55	0.24
tblVehicleEF	OBUS	0.55	0.39

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

tblVehicleEF	OBUS	2.14	4.58
tblVehicleEF	OBUS	77.32	80.14
tblVehicleEF	OBUS	1,334.35	1,203.91
tblVehicleEF	OBUS	19.21	69.07
tblVehicleEF	OBUS	0.28	0.16
tblVehicleEF	OBUS	0.92	0.52
tblVehicleEF	OBUS	0.74	1.92
tblVehicleEF	OBUS	8.8000e-005	1.2000e-005
tblVehicleEF	OBUS	6.5550e-003	2.4030e-003
tblVehicleEF	OBUS	2.0200e-004	8.9600e-004
tblVehicleEF	OBUS	8.4000e-005	1.1000e-005
tblVehicleEF	OBUS	6.2550e-003	2.2790e-003
tblVehicleEF	OBUS	1.8600e-004	8.2400e-004
tblVehicleEF	OBUS	2.3950e-003	1.8380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	1.2840e-003	1.0100e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.11	0.29
tblVehicleEF	OBUS	7.3700e-004	7.7700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9000e-004	7.7100e-004
tblVehicleEF	OBUS	2.3950e-003	1.8380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	1.2840e-003	1.0100e-003
tblVehicleEF	OBUS	0.04	0.04

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

tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.12	0.32
tblVehicleEF	OBUS	8.5700e-003	0.01
tblVehicleEF	OBUS	4.3550e-003	5.2500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.56	0.25
tblVehicleEF	OBUS	0.54	0.38
tblVehicleEF	OBUS	2.28	4.86
tblVehicleEF	OBUS	79.37	71.70
tblVehicleEF	OBUS	1,334.32	1,203.91
tblVehicleEF	OBUS	19.44	69.07
tblVehicleEF	OBUS	0.32	0.15
tblVehicleEF	OBUS	0.96	0.54
tblVehicleEF	OBUS	0.76	1.96
tblVehicleEF	OBUS	1.1500e-004	1.7000e-005
tblVehicleEF	OBUS	6.5550e-003	2.4030e-003
tblVehicleEF	OBUS	2.0200e-004	8.9600e-004
tblVehicleEF	OBUS	1.1000e-004	1.6000e-005
tblVehicleEF	OBUS	6.2550e-003	2.2790e-003
tblVehicleEF	OBUS	1.8600e-004	8.2400e-004
tblVehicleEF	OBUS	1.7730e-003	1.3380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	9.4400e-004	7.3000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.11	0.31
tblVehicleEF	OBUS	7.5600e-004	6.9600e-004

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

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9200e-004	7.7600e-004
tblVehicleEF	OBUS	1.7730e-003	1.3380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	9.4400e-004	7.3000e-004
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.12	0.34
tblVehicleEF	SBUS	0.09	0.83
tblVehicleEF	SBUS	9.1570e-003	0.02
tblVehicleEF	SBUS	8.2300e-003	0.07
tblVehicleEF	SBUS	3.34	8.49
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	1.12	8.61
tblVehicleEF	SBUS	359.37	1,085.60
tblVehicleEF	SBUS	1,076.06	1,065.54
tblVehicleEF	SBUS	6.66	58.07
tblVehicleEF	SBUS	3.47	7.75
tblVehicleEF	SBUS	5.09	3.55
tblVehicleEF	SBUS	0.75	11.66
tblVehicleEF	SBUS	4.4780e-003	6.9310e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.7000e-005	1.0190e-003
tblVehicleEF	SBUS	4.2840e-003	6.6310e-003
tblVehicleEF	SBUS	2.6190e-003	2.6550e-003
tblVehicleEF	SBUS	0.03	0.02

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

tblVehicleEF	SBUS	7.1000e-005	9.3700e-004
tblVehicleEF	SBUS	1.1510e-003	3.3910e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.40	1.01
tblVehicleEF	SBUS	6.6100e-004	1.9710e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.45
tblVehicleEF	SBUS	3.4360e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6000e-005	7.3000e-004
tblVehicleEF	SBUS	1.1510e-003	3.3910e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.57	1.46
tblVehicleEF	SBUS	6.6100e-004	1.9710e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.50
tblVehicleEF	SBUS	0.09	0.83
tblVehicleEF	SBUS	9.2670e-003	0.02
tblVehicleEF	SBUS	7.3960e-003	0.06
tblVehicleEF	SBUS	3.30	8.40
tblVehicleEF	SBUS	0.85	0.95
tblVehicleEF	SBUS	0.92	7.12
tblVehicleEF	SBUS	368.54	1,133.08
tblVehicleEF	SBUS	1,076.08	1,065.54
tblVehicleEF	SBUS	6.33	58.07
tblVehicleEF	SBUS	3.55	8.00

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

tblVehicleEF	SBUS	4.81	3.35
tblVehicleEF	SBUS	0.75	11.63
tblVehicleEF	SBUS	3.7810e-003	5.8420e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.7000e-005	1.0190e-003
tblVehicleEF	SBUS	3.6170e-003	5.5900e-003
tblVehicleEF	SBUS	2.6190e-003	2.6550e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.1000e-005	9.3700e-004
tblVehicleEF	SBUS	1.5800e-003	4.6620e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.40	1.01
tblVehicleEF	SBUS	8.9500e-004	2.6790e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.41
tblVehicleEF	SBUS	3.5220e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3000e-005	7.0500e-004
tblVehicleEF	SBUS	1.5800e-003	4.6620e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.57	1.46
tblVehicleEF	SBUS	8.9500e-004	2.6790e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.45
tblVehicleEF	SBUS	0.09	0.83

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

tblVehicleEF	SBUS	9.1270e-003	0.02
tblVehicleEF	SBUS	8.3500e-003	0.07
tblVehicleEF	SBUS	3.39	8.63
tblVehicleEF	SBUS	0.83	0.93
tblVehicleEF	SBUS	1.13	8.75
tblVehicleEF	SBUS	346.72	1,020.03
tblVehicleEF	SBUS	1,076.06	1,065.54
tblVehicleEF	SBUS	6.69	58.07
tblVehicleEF	SBUS	3.35	7.41
tblVehicleEF	SBUS	5.00	3.49
tblVehicleEF	SBUS	0.75	11.67
tblVehicleEF	SBUS	5.4400e-003	8.4330e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.7000e-005	1.0190e-003
tblVehicleEF	SBUS	5.2050e-003	8.0680e-003
tblVehicleEF	SBUS	2.6190e-003	2.6550e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.1000e-005	9.3700e-004
tblVehicleEF	SBUS	1.1240e-003	3.3080e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.40	1.01
tblVehicleEF	SBUS	6.4200e-004	1.9200e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.46
tblVehicleEF	SBUS	3.3160e-003	0.01
tblVehicleEF	SBUS	0.01	0.01

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

tblVehicleEF	SBUS	6.6000e-005	7.3200e-004
tblVehicleEF	SBUS	1.1240e-003	3.3080e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.57	1.47
tblVehicleEF	SBUS	6.4200e-004	1.9200e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.51
tblVehicleEF	UBUS	5.27	1.60
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	41.12	7.75
tblVehicleEF	UBUS	1.81	12.30
tblVehicleEF	UBUS	2,035.17	1,792.86
tblVehicleEF	UBUS	20.36	138.24
tblVehicleEF	UBUS	0.45	3.61
tblVehicleEF	UBUS	0.18	13.00
tblVehicleEF	UBUS	0.08	0.52
tblVehicleEF	UBUS	0.03	0.01
tblVehicleEF	UBUS	3.0710e-003	0.03
tblVehicleEF	UBUS	1.7000e-004	1.3330e-003
tblVehicleEF	UBUS	0.03	0.22
tblVehicleEF	UBUS	7.5850e-003	3.0000e-003
tblVehicleEF	UBUS	2.9250e-003	0.03
tblVehicleEF	UBUS	1.5700e-004	1.2250e-003
tblVehicleEF	UBUS	9.5600e-004	5.7880e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	7.3800e-004	3.5780e-003
tblVehicleEF	UBUS	0.08	0.41

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

tblVehicleEF	UBUS	2.7280e-003	0.03
tblVehicleEF	UBUS	0.11	0.94
tblVehicleEF	UBUS	3.8190e-003	8.5520e-003
tblVehicleEF	UBUS	2.0100e-004	1.6040e-003
tblVehicleEF	UBUS	9.5600e-004	5.7880e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	7.3800e-004	3.5780e-003
tblVehicleEF	UBUS	5.38	2.05
tblVehicleEF	UBUS	2.7280e-003	0.03
tblVehicleEF	UBUS	0.12	1.03
tblVehicleEF	UBUS	5.27	1.60
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	41.12	7.80
tblVehicleEF	UBUS	1.61	10.86
tblVehicleEF	UBUS	2,035.17	1,792.86
tblVehicleEF	UBUS	20.00	138.24
tblVehicleEF	UBUS	0.44	3.38
tblVehicleEF	UBUS	0.17	12.93
tblVehicleEF	UBUS	0.08	0.52
tblVehicleEF	UBUS	0.03	0.01
tblVehicleEF	UBUS	3.0710e-003	0.03
tblVehicleEF	UBUS	1.7000e-004	1.3330e-003
tblVehicleEF	UBUS	0.03	0.22
tblVehicleEF	UBUS	7.5850e-003	3.0000e-003
tblVehicleEF	UBUS	2.9250e-003	0.03
tblVehicleEF	UBUS	1.5700e-004	1.2250e-003
tblVehicleEF	UBUS	1.3190e-003	7.7730e-003
tblVehicleEF	UBUS	0.01	0.09

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

tblVehicleEF	UBUS	1.0200e-003	4.7590e-003
tblVehicleEF	UBUS	0.08	0.41
tblVehicleEF	UBUS	2.4620e-003	0.03
tblVehicleEF	UBUS	0.10	0.87
tblVehicleEF	UBUS	3.8190e-003	8.5530e-003
tblVehicleEF	UBUS	1.9800e-004	1.5790e-003
tblVehicleEF	UBUS	1.3190e-003	7.7730e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	1.0200e-003	4.7590e-003
tblVehicleEF	UBUS	5.38	2.06
tblVehicleEF	UBUS	2.4620e-003	0.03
tblVehicleEF	UBUS	0.11	0.96
tblVehicleEF	UBUS	5.27	1.60
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	41.12	7.74
tblVehicleEF	UBUS	1.85	12.55
tblVehicleEF	UBUS	2,035.17	1,792.86
tblVehicleEF	UBUS	20.42	138.24
tblVehicleEF	UBUS	0.45	3.54
tblVehicleEF	UBUS	0.18	13.02
tblVehicleEF	UBUS	0.08	0.52
tblVehicleEF	UBUS	0.03	0.01
tblVehicleEF	UBUS	3.0710e-003	0.03
tblVehicleEF	UBUS	1.7000e-004	1.3330e-003
tblVehicleEF	UBUS	0.03	0.22
tblVehicleEF	UBUS	7.5850e-003	3.0000e-003
tblVehicleEF	UBUS	2.9250e-003	0.03
tblVehicleEF	UBUS	1.5700e-004	1.2250e-003

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

tblVehicleEF	UBUS	9.6600e-004	6.4170e-003
tblVehicleEF	UBUS	0.01	0.11
tblVehicleEF	UBUS	7.1600e-004	3.7120e-003
tblVehicleEF	UBUS	0.08	0.40
tblVehicleEF	UBUS	3.3320e-003	0.04
tblVehicleEF	UBUS	0.11	0.96
tblVehicleEF	UBUS	3.8190e-003	8.5520e-003
tblVehicleEF	UBUS	2.0200e-004	1.6080e-003
tblVehicleEF	UBUS	9.6600e-004	6.4170e-003
tblVehicleEF	UBUS	0.01	0.11
tblVehicleEF	UBUS	7.1600e-004	3.7120e-003
tblVehicleEF	UBUS	5.38	2.05
tblVehicleEF	UBUS	3.3320e-003	0.04
tblVehicleEF	UBUS	0.12	1.05
tblVehicleTrips	ST_TR	4.91	6.39
tblVehicleTrips	ST_TR	46.12	49.97
tblVehicleTrips	SU_TR	4.09	5.86
tblVehicleTrips	SU_TR	21.10	25.24
tblVehicleTrips	WD_TR	5.44	6.65
tblVehicleTrips	WD_TR	37.75	42.70

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Year	lb/day										lb/day					
2022	5.8373	72.6558	44.4620	0.1582	10.8001	2.4179	13.2180	4.1656	2.2289	6.3945	0.0000	16,319.2653	16,319.2653	3.6537	1.0950	16,736.9143
2023	1.2986	3.7852	12.4950	0.0503	4.9507	0.0374	4.9881	1.3248	0.0350	1.3598	0.0000	5,216.2826	5,216.2826	0.1810	0.3196	5,316.0536
2024	71.9079	14.7725	31.7133	0.0849	6.0908	0.5711	6.6619	1.6272	0.5326	2.1598	0.0000	8,561.2455	8,561.2455	0.9390	0.3322	8,683.7253
Maximum	**71.9079**	**72.6558**	**44.4620**	**0.1582**	**10.8001**	**2.4179**	**13.2180**	**4.1656**	**2.2289**	**6.3945**	**0.0000**	**16,319.2653**	**16,319.2653**	**3.6537**	**1.0950**	**16,736.9143**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.0863	42.0777	56.3602	0.1582	5.6412	0.2873	5.9285	2.0640	0.2810	2.3450	0.0000	16,319.2653	16,319.2653	3.6537	1.0950	16,736.9143
2023	1.2986	3.7852	12.4950	0.0503	4.5707	0.0374	4.6081	1.2315	0.0350	1.2665	0.0000	5,216.2826	5,216.2826	0.1810	0.3196	5,316.0536
2024	71.1782	15.5020	34.0775	0.0849	5.6216	0.1135	5.7351	1.5120	0.1100	1.6220	0.0000	8,561.2455	8,561.2455	0.9390	0.3322	8,683.7253
Maximum	**71.1782**	**42.0777**	**56.3602**	**0.1582**	**5.6412**	**0.2873**	**5.9285**	**2.0640**	**0.2810**	**2.3450**	**0.0000**	**16,319.2653**	**16,319.2653**	**3.6537**	**1.0950**	**16,736.9143**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.67**	**32.72**	**-16.08**	**0.00**	**27.51**	**85.52**	**34.57**	**32.46**	**84.77**	**47.21**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building and Asphalt Demolition and Demolition Reprocessing	Demolition	1/1/2022	3/4/2022	5	45	a
2	Building Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	b
3	Asphalt Demolition Debris Haul	Demolition	1/1/2022	3/4/2022	5	45	c
4	Site Preparation	Site Preparation	3/24/2022	4/6/2022	5	10	d
5	Rough Grading	Grading	4/7/2022	4/20/2022	5	10	e
6	Rough Grading Soil Haul	Grading	4/7/2022	4/20/2022	5	10	f
7	Ground/Soil Improvement	Site Preparation	4/13/2022	6/7/2022	5	40	g
8	Fine Grading	Grading	5/31/2022	6/13/2022	5	10	h
9	Fine Grading Soil Haul	Grading	5/31/2022	6/13/2022	5	10	i
10	Utility Trenching	Trenching	6/14/2022	7/12/2022	5	21	j
11	Building Construction	Building Construction	7/13/2022	3/12/2024	5	435	k
12	Finishing/Landscaping	Trenching	1/10/2024	3/26/2024	5	55	l
13	Paving	Paving	1/24/2024	3/12/2024	5	35	m
14	Architectural Coating	Architectural Coating	1/24/2024	3/12/2024	5	35	n

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 25

Acres of Paving: 2.01

Residential Indoor: 954,832; Residential Outdoor: 15,914; Non-Residential Indoor: 18,657; Non-Residential Outdoor: 36,799; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building and Asphalt Demolition and Demolition Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73

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

Building and Asphalt Demolition and Demolition Reprocessing	Excavators	2	8.00	307	0.38
Building and Asphalt Demolition and Demolition Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Building and Asphalt Demolition and Demolition Reprocessing	Skid Steer Loaders	1	8.00	73	0.37
Building and Asphalt Demolition and Demolition Reprocessing	Tractors/Loaders/Backhoes	1	8.00	197	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Skid Steer Loaders	1	8.00	74	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	179	0.41
Rough Grading	Plate Compactors	1	8.00	157	0.43
Rough Grading	Rubber Tired Dozers	1	8.00	405	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	215	0.40
Rough Grading	Scrapers	2	8.00	407	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	424	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Ground/Soil Improvement	Bore/Drill Rigs	1	8.00	221	0.50
Ground/Soil Improvement	Rubber Tired Dozers	0	8.00	247	0.40
Ground/Soil Improvement	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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

Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	1	8.00	179	0.41
Fine Grading	Plate Compactors	1	8.00	157	0.43
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	407	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Fine Grading Soil Haul	Excavators	0	8.00	158	0.38
Fine Grading Soil Haul	Graders	0	8.00	187	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Utility Trenching	Excavators	1	8.00	265	0.38
Utility Trenching	Excavators	1	8.00	41	0.38
Utility Trenching	Skid Steer Loaders	1	8.00	90	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	241	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	109	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Finishing/Landscaping	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building and Asphalt Demolition and	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	330.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	2	5.00	0.00	1,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ground/Soil Improvement	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	1	3.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	396.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	79.00	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

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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

3.2 Building and Asphalt Demolition and Demolition Reprocessing -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8451	7.8193	7.4195	0.0286		0.2686	0.2686		0.2471	0.2471		2,762.3138	2,762.3138	0.8934		2,784.6485
Total	**0.8451**	**7.8193**	**7.4195**	**0.0286**		**0.2686**	**0.2686**		**0.2471**	**0.2471**		**2,762.3138**	**2,762.3138**	**0.8934**		**2,784.6485**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0360**	**0.1155**	**0.3388**	**1.3100e-003**	**0.1246**	**1.4800e-003**	**0.1260**	**0.0333**	**1.3900e-003**	**0.0347**		**135.2346**	**135.2346**	**4.7400e-003**	**8.3100e-003**	**137.8278**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5149	8.1383	14.9810	0.0286		0.1110	0.1110		0.1095	0.1095	0.0000	2,762.3138	2,762.3138	0.8934		2,784.6485
Total	**0.5149**	**8.1383**	**14.9810**	**0.0286**		**0.1110**	**0.1110**		**0.1095**	**0.1095**	**0.0000**	**2,762.3138**	**2,762.3138**	**0.8934**		**2,784.6485**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0120	8.8000e-004	0.0128	3.4800e-003	8.4000e-004	4.3200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0360**	**0.1155**	**0.3388**	**1.3100e-003**	**0.1150**	**1.4800e-003**	**0.1165**	**0.0310**	**1.3900e-003**	**0.0324**		**135.2346**	**135.2346**	**4.7400e-003**	**8.3100e-003**	**137.8278**

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

3.3 Building Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3315	0.0000	1.3315	0.2016	0.0000	0.2016			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.3315**	**0.0000**	**1.3315**	**0.2016**	**0.0000**	**0.2016**		**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	lb/day										lb/day					
Hauling	0.0246	1.0068	0.2761	3.7100e-003	0.1085	7.3500e-003	0.1159	0.0297	7.0300e-003	0.0368		420.7822	420.7822	0.0401	0.0674	441.8677
Vendor	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0246**	**1.0068**	**0.2761**	**3.7100e-003**	**0.1085**	**7.3500e-003**	**0.1159**	**0.0297**	**7.0300e-003**	**0.0368**		**420.7822**	**420.7822**	**0.0401**	**0.0674**	**441.8677**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5692	0.0000	0.5692	0.0862	0.0000	0.0862			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.5692**	**0.0000**	**0.5692**	**0.0862**	**0.0000**	**0.0862**	**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	lb/day										lb/day					
Hauling	0.0246	1.0068	0.2761	3.7100e-003	0.1011	7.3500e-003	0.1085	0.0279	7.0300e-003	0.0349		420.7822	420.7822	0.0401	0.0674	441.8677
Vendor	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0246**	**1.0068**	**0.2761**	**3.7100e-003**	**0.1011**	**7.3500e-003**	**0.1085**	**0.0279**	**7.0300e-003**	**0.0349**		**420.7822**	**420.7822**	**0.0401**	**0.0674**	**441.8677**

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

3.4 Asphalt Demolition Debris Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5655	0.0000	1.5655	0.2370	0.0000	0.2370			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.5655**	**0.0000**	**1.5655**	**0.2370**	**0.0000**	**0.2370**		**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	lb/day										lb/day					
Hauling	0.0290	1.1866	0.3254	4.3800e-003	0.1279	8.6600e-003	0.1366	0.0350	8.2800e-003	0.0433		495.9218	495.9218	0.0472	0.0794	520.7726
Vendor	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0290**	**1.1866**	**0.3254**	**4.3800e-003**	**0.1279**	**8.6600e-003**	**0.1366**	**0.0350**	**8.2800e-003**	**0.0433**		**495.9218**	**495.9218**	**0.0472**	**0.0794**	**520.7726**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6692	0.0000	0.6692	0.1013	0.0000	0.1013			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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.6692**	**0.0000**	**0.6692**	**0.1013**	**0.0000**	**0.1013**	**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	lb/day										lb/day					
Hauling	0.0290	1.1866	0.3254	4.3800e-003	0.1192	8.6600e-003	0.1278	0.0329	8.2800e-003	0.0412		495.9218	495.9218	0.0472	0.0794	520.7726
Vendor	0.0000	0.0000	0.0000	0.0000	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
Total	**0.0290**	**1.1866**	**0.3254**	**4.3800e-003**	**0.1192**	**8.6600e-003**	**0.1278**	**0.0329**	**8.2800e-003**	**0.0412**		**495.9218**	**495.9218**	**0.0472**	**0.0794**	**520.7726**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

3.5 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4841	4.6111	8.0895	0.0127		0.2111	0.2111		0.1942	0.1942		1,228.1683	1,228.1683	0.3972		1,238.0987
Total	**0.4841**	**4.6111**	**8.0895**	**0.0127**	**0.0000**	**0.2111**	**0.2111**	**0.0000**	**0.1942**	**0.1942**		**1,228.1683**	**1,228.1683**	**0.3972**		**1,238.0987**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0262	0.0178	0.2447	7.4000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		75.0001	75.0001	1.8900e-003	1.8800e-003	75.6089
Total	**0.0295**	**0.1110**	**0.2777**	**1.1200e-003**	**0.1022**	**1.3600e-003**	**0.1036**	**0.0274**	**1.2800e-003**	**0.0287**		**116.4846**	**116.4846**	**4.2600e-003**	**7.8300e-003**	**118.9256**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2211	5.7466	9.4504	0.0127		0.0912	0.0912		0.0894	0.0894	0.0000	1,228.1683	1,228.1683	0.3972		1,238.0987
Total	**0.2211**	**5.7466**	**9.4504**	**0.0127**	**0.0000**	**0.0912**	**0.0912**	**0.0000**	**0.0894**	**0.0894**	**0.0000**	**1,228.1683**	**1,228.1683**	**0.3972**		**1,238.0987**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0120	8.8000e-004	0.0128	3.4800e-003	8.4000e-004	4.3200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0262	0.0178	0.2447	7.4000e-004	0.0824	4.8000e-004	0.0829	0.0220	4.4000e-004	0.0224		75.0001	75.0001	1.8900e-003	1.8800e-003	75.6089
Total	**0.0295**	**0.1110**	**0.2777**	**1.1200e-003**	**0.0944**	**1.3600e-003**	**0.0958**	**0.0255**	**1.2800e-003**	**0.0268**		**116.4846**	**116.4846**	**4.2600e-003**	**7.8300e-003**	**118.9256**

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

3.6 Rough Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.2995	46.2603	30.0359	0.0616		1.9260	1.9260		1.7720	1.7720		5,964.3035	5,964.3035	1.9290		6,012.5279
Total	**4.2995**	**46.2603**	**30.0359**	**0.0616**	**8.6733**	**1.9260**	**10.5994**	**3.5965**	**1.7720**	**5.3685**		**5,964.3035**	**5,964.3035**	**1.9290**		**6,012.5279**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0491	0.0333	0.4587	1.3900e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		140.6252	140.6252	3.5500e-003	3.5300e-003	141.7667
Total	**0.0524**	**0.1266**	**0.4917**	**1.7700e-003**	**0.1805**	**1.7800e-003**	**0.1822**	**0.0482**	**1.6700e-003**	**0.0498**		**182.1097**	**182.1097**	**5.9200e-003**	**9.4800e-003**	**185.0834**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7079	0.0000	3.7079	1.5375	0.0000	1.5375			0.0000			0.0000
Off-Road	1.0048	16.2017	32.6546	0.0616		0.1005	0.1005		0.1005	0.1005	0.0000	5,964.3035	5,964.3035	1.9290		6,012.5279
Total	**1.0048**	**16.2017**	**32.6546**	**0.0616**	**3.7079**	**0.1005**	**3.8083**	**1.5375**	**0.1005**	**1.6380**	**0.0000**	**5,964.3035**	**5,964.3035**	**1.9290**		**6,012.5279**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0120	8.8000e-004	0.0128	3.4800e-003	8.4000e-004	4.3200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0491	0.0333	0.4587	1.3900e-003	0.1546	9.0000e-004	0.1555	0.0413	8.3000e-004	0.0421		140.6252	140.6252	3.5500e-003	3.5300e-003	141.7667
Total	**0.0524**	**0.1266**	**0.4917**	**1.7700e-003**	**0.1665**	**1.7800e-003**	**0.1683**	**0.0447**	**1.6700e-003**	**0.0464**		**182.1097**	**182.1097**	**5.9200e-003**	**9.4800e-003**	**185.0834**

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

3.7 Rough Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0905	0.0000	0.0905	0.0137	0.0000	0.0137			0.0000			0.0000
Off-Road	0.6686	6.1241	4.9122	0.0217		0.2086	0.2086		0.1919	0.1919		2,101.7318	2,101.7318	0.6797		2,118.7254
Total	**0.6686**	**6.1241**	**4.9122**	**0.0217**	**0.0905**	**0.2086**	**0.2990**	**0.0137**	**0.1919**	**0.2056**		**2,101.7318**	**2,101.7318**	**0.6797**		**2,118.7254**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3952	16.1807	4.4373	0.0597	1.7441	0.1181	1.8621	0.4776	0.1130	0.5906		6,762.5705	6,762.5705	0.6438	1.0832	7,101.4445
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0164	0.0111	0.1529	4.6000e-004	0.0559	3.0000e-004	0.0562	0.0148	2.8000e-004	0.0151		46.8751	46.8751	1.1800e-003	1.1800e-003	47.2556
Total	**0.4116**	**16.1918**	**4.5902**	**0.0602**	**1.8000**	**0.1184**	**1.9183**	**0.4924**	**0.1132**	**0.6057**		**6,809.4455**	**6,809.4455**	**0.6450**	**1.0843**	**7,148.7000**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0387	0.0000	0.0387	5.8600e-003	0.0000	5.8600e-003			0.0000			0.0000
Off-Road	0.3756	5.6779	11.0616	0.0217		0.0457	0.0457		0.0447	0.0447	0.0000	2,101.7318	2,101.7318	0.6797		2,118.7254
Total	**0.3756**	**5.6779**	**11.0616**	**0.0217**	**0.0387**	**0.0457**	**0.0844**	**5.8600e-003**	**0.0447**	**0.0506**	**0.0000**	**2,101.7318**	**2,101.7318**	**0.6797**		**2,118.7254**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3952	16.1807	4.4373	0.0597	1.6251	0.1181	1.7431	0.4484	0.1130	0.5614		6,762.5705	6,762.5705	0.6438	1.0832	7,101.4445
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0164	0.0111	0.1529	4.6000e-004	0.0515	3.0000e-004	0.0518	0.0138	2.8000e-004	0.0140		46.8751	46.8751	1.1800e-003	1.1800e-003	47.2556
Total	**0.4116**	**16.1918**	**4.5902**	**0.0602**	**1.6766**	**0.1184**	**1.7949**	**0.4622**	**0.1132**	**0.5754**		**6,809.4455**	**6,809.4455**	**0.6450**	**1.0843**	**7,148.7000**

3.8 Ground/Soil Improvement - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498		1,214.7998	1,214.7998	0.3929		1,224.6220
Total	**0.3888**	**3.9421**	**4.2791**	**0.0126**	**0.0000**	**0.1629**	**0.1629**	**0.0000**	**0.1498**	**0.1498**		**1,214.7998**	**1,214.7998**	**0.3929**		**1,224.6220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0164	0.0111	0.1529	4.6000e-004	0.0559	3.0000e-004	0.0562	0.0148	2.8000e-004	0.0151		46.8751	46.8751	1.1800e-003	1.1800e-003	47.2556
Total	**0.0164**	**0.0111**	**0.1529**	**4.6000e-004**	**0.0559**	**3.0000e-004**	**0.0562**	**0.0148**	**2.8000e-004**	**0.0151**		**46.8751**	**46.8751**	**1.1800e-003**	**1.1800e-003**	**47.2556**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2255	3.8687	7.4092	0.0126		0.0207	0.0207		0.0207	0.0207	0.0000	1,214.7998	1,214.7998	0.3929		1,224.6220
Total	**0.2255**	**3.8687**	**7.4092**	**0.0126**	**0.0000**	**0.0207**	**0.0207**	**0.0000**	**0.0207**	**0.0207**	**0.0000**	**1,214.7998**	**1,214.7998**	**0.3929**		**1,224.6220**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0164	0.0111	0.1529	4.6000e-004	0.0515	3.0000e-004	0.0518	0.0138	2.8000e-004	0.0140		46.8751	46.8751	1.1800e-003	1.1800e-003	47.2556
Total	**0.0164**	**0.0111**	**0.1529**	**4.6000e-004**	**0.0515**	**3.0000e-004**	**0.0518**	**0.0138**	**2.8000e-004**	**0.0140**		**46.8751**	**46.8751**	**1.1800e-003**	**1.1800e-003**	**47.2556**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

3.9 Fine Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3058	14.9509	8.7188	0.0232		0.5472	0.5472		0.5035	0.5035		2,244.3885	2,244.3885	0.7259		2,262.5355
Total	**1.3058**	**14.9509**	**8.7188**	**0.0232**	**1.5908**	**0.5472**	**2.1380**	**0.1718**	**0.5035**	**0.6752**		**2,244.3885**	**2,244.3885**	**0.7259**		**2,262.5355**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0262	0.0178	0.2447	7.4000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		75.0001	75.0001	1.8900e-003	1.8800e-003	75.6089
Total	**0.0295**	**0.1110**	**0.2777**	**1.1200e-003**	**0.1022**	**1.3600e-003**	**0.1036**	**0.0274**	**1.2800e-003**	**0.0287**		**116.4846**	**116.4846**	**4.2600e-003**	**7.8300e-003**	**118.9256**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6801	0.0000	0.6801	0.0734	0.0000	0.0734			0.0000			0.0000
Off-Road	0.3792	6.1145	12.3238	0.0232		0.0379	0.0379		0.0379	0.0379	0.0000	2,244.3885	2,244.3885	0.7259		2,262.5355
Total	**0.3792**	**6.1145**	**12.3238**	**0.0232**	**0.6801**	**0.0379**	**0.7180**	**0.0734**	**0.0379**	**0.1114**	**0.0000**	**2,244.3885**	**2,244.3885**	**0.7259**		**2,262.5355**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0120	8.8000e-004	0.0128	3.4800e-003	8.4000e-004	4.3200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0262	0.0178	0.2447	7.4000e-004	0.0824	4.8000e-004	0.0829	0.0220	4.4000e-004	0.0224		75.0001	75.0001	1.8900e-003	1.8800e-003	75.6089
Total	**0.0295**	**0.1110**	**0.2777**	**1.1200e-003**	**0.0944**	**1.3600e-003**	**0.0958**	**0.0255**	**1.2800e-003**	**0.0268**		**116.4846**	**116.4846**	**4.2600e-003**	**7.8300e-003**	**118.9256**

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

3.10 Fine Grading Soil Haul - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0226	0.0000	0.0226	3.4200e-003	0.0000	3.4200e-003			0.0000			0.0000
Off-Road	0.3050	3.1691	1.8965	7.9200e-003		0.1093	0.1093		0.1006	0.1006		766.9693	766.9693	0.2481		773.1707
Total	**0.3050**	**3.1691**	**1.8965**	**7.9200e-003**	**0.0226**	**0.1093**	**0.1320**	**3.4200e-003**	**0.1006**	**0.1040**		**766.9693**	**766.9693**	**0.2481**		**773.1707**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0988	4.0452	1.1093	0.0149	0.4360	0.0295	0.4655	0.1194	0.0282	0.1476		1,690.6426	1,690.6426	0.1610	0.2708	1,775.3611
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.1086**	**4.0518**	**1.2011**	**0.0152**	**0.4696**	**0.0297**	**0.4992**	**0.1283**	**0.0284**	**0.1567**		**1,718.7677**	**1,718.7677**	**0.1617**	**0.2715**	**1,803.7144**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.6700e-003	0.0000	9.6700e-003	1.4600e-003	0.0000	1.4600e-003			0.0000			0.0000
Off-Road	0.1305	2.1045	4.2417	7.9200e-003		0.0131	0.0131		0.0131	0.0131	0.0000	766.9693	766.9693	0.2481		773.1707
Total	**0.1305**	**2.1045**	**4.2417**	**7.9200e-003**	**9.6700e-003**	**0.0131**	**0.0227**	**1.4600e-003**	**0.0131**	**0.0145**	**0.0000**	**766.9693**	**766.9693**	**0.2481**		**773.1707**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0988	4.0452	1.1093	0.0149	0.4063	0.0295	0.4358	0.1121	0.0282	0.1403		1,690.6426	1,690.6426	0.1610	0.2708	1,775.3611
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.1086**	**4.0518**	**1.2011**	**0.0152**	**0.4372**	**0.0297**	**0.4669**	**0.1204**	**0.0284**	**0.1488**		**1,718.7677**	**1,718.7677**	**0.1617**	**0.2715**	**1,803.7144**

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

3.11 Utility Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0920	10.6939	11.4685	0.0271		0.4468	0.4468		0.4110	0.4110		2,622.7566	2,622.7566	0.8483		2,643.9629
Total	**1.0920**	**10.6939**	**11.4685**	**0.0271**		**0.4468**	**0.4468**		**0.4110**	**0.4110**		**2,622.7566**	**2,622.7566**	**0.8483**		**2,643.9629**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0491	0.0333	0.4587	1.3900e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		140.6252	140.6252	3.5500e-003	3.5300e-003	141.7667
Total	**0.0491**	**0.0333**	**0.4587**	**1.3900e-003**	**0.1677**	**9.0000e-004**	**0.1686**	**0.0445**	**8.3000e-004**	**0.0453**		**140.6252**	**140.6252**	**3.5500e-003**	**3.5300e-003**	**141.7667**

Mitigated Construction On-Site

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5343	9.5598	16.5346	0.0271		0.0846	0.0846		0.0835	0.0835	0.0000	2,622.7566	2,622.7566	0.8483		2,643.9629
Total	**0.5343**	**9.5598**	**16.5346**	**0.0271**		**0.0846**	**0.0846**		**0.0835**	**0.0835**	**0.0000**	**2,622.7566**	**2,622.7566**	**0.8483**		**2,643.9629**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0491	0.0333	0.4587	1.3900e-003	0.1546	9.0000e-004	0.1555	0.0413	8.3000e-004	0.0421		140.6252	140.6252	3.5500e-003	3.5300e-003	141.7667
Total	**0.0491**	**0.0333**	**0.4587**	**1.3900e-003**	**0.1546**	**9.0000e-004**	**0.1555**	**0.0413**	**8.3000e-004**	**0.0421**		**140.6252**	**140.6252**	**3.5500e-003**	**3.5300e-003**	**141.7667**

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

3.12 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1345	3.8235	1.3532	0.0155	0.5243	0.0359	0.5603	0.1509	0.0344	0.1853		1,700.8655	1,700.8655	0.0973	0.2439	1,775.9855
Worker	1.2973	0.8790	12.1103	0.0367	4.4264	0.0239	4.4502	1.1739	0.0220	1.1958		3,712.5039	3,712.5039	0.0938	0.0933	3,742.6402
Total	**1.4318**	**4.7025**	**13.4634**	**0.0523**	**4.9507**	**0.0598**	**5.0105**	**1.3248**	**0.0563**	**1.3811**		**5,413.3694**	**5,413.3694**	**0.1910**	**0.3372**	**5,518.6257**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1345	3.8235	1.3532	0.0155	0.4907	0.0359	0.5266	0.1427	0.0344	0.1770		1,700.8655	1,700.8655	0.0973	0.2439	1,775.9855
Worker	1.2973	0.8790	12.1103	0.0367	4.0800	0.0239	4.1039	1.0889	0.0220	1.1108		3,712.5039	3,712.5039	0.0938	0.0933	3,742.6402
Total	**1.4318**	**4.7025**	**13.4634**	**0.0523**	**4.5707**	**0.0598**	**4.6305**	**1.2315**	**0.0563**	**1.2878**		**5,413.3694**	**5,413.3694**	**0.1910**	**0.3372**	**5,518.6257**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

3.12 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0799	3.0019	1.2295	0.0148	0.5243	0.0148	0.5392	0.1509	0.0142	0.1651		1,621.4663	1,621.4663	0.0960	0.2328	1,693.2546
Worker	1.2187	0.7833	11.2654	0.0356	4.4264	0.0226	4.4489	1.1739	0.0208	1.1947		3,594.8163	3,594.8163	0.0850	0.0868	3,622.7991
Total	**1.2986**	**3.7852**	**12.4950**	**0.0503**	**4.9507**	**0.0374**	**4.9881**	**1.3248**	**0.0350**	**1.3598**		**5,216.2826**	**5,216.2826**	**0.1810**	**0.3196**	**5,316.0536**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0799	3.0019	1.2295	0.0148	0.4907	0.0148	0.5055	0.1426	0.0142	0.1568		1,621.4663	1,621.4663	0.0960	0.2328	1,693.2546
Worker	1.2187	0.7833	11.2654	0.0356	4.0800	0.0226	4.1026	1.0889	0.0208	1.1097		3,594.8163	3,594.8163	0.0850	0.0868	3,622.7991
Total	**1.2986**	**3.7852**	**12.4950**	**0.0503**	**4.5707**	**0.0374**	**4.6081**	**1.2315**	**0.0350**	**1.2665**		**5,216.2826**	**5,216.2826**	**0.1810**	**0.3196**	**5,316.0536**

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

3.12 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0787	2.9934	1.2199	0.0145	0.5243	0.0155	0.5398	0.1509	0.0148	0.1657		1,596.3704	1,596.3704	0.0970	0.2302	1,667.3958
Worker	1.1490	0.7033	10.4942	0.0344	4.4264	0.0214	4.4478	1.1739	0.0197	1.1936		3,480.9363	3,480.9363	0.0772	0.0811	3,507.0421
Total	**1.2277**	**3.6967**	**11.7141**	**0.0490**	**4.9507**	**0.0370**	**4.9876**	**1.3248**	**0.0346**	**1.3594**		**5,077.3068**	**5,077.3068**	**0.1742**	**0.3113**	**5,174.4379**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0787	2.9934	1.2199	0.0145	0.4907	0.0155	0.5062	0.1426	0.0148	0.1575		1,596.3704	1,596.3704	0.0970	0.2302	1,667.3958
Worker	1.1490	0.7033	10.4942	0.0344	4.0800	0.0214	4.1015	1.0889	0.0197	1.1086		3,480.9363	3,480.9363	0.0772	0.0811	3,507.0421
Total	**1.2277**	**3.6967**	**11.7141**	**0.0490**	**4.5707**	**0.0370**	**4.6076**	**1.2315**	**0.0346**	**1.2661**		**5,077.3068**	**5,077.3068**	**0.1742**	**0.3113**	**5,174.4379**

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

3.13 Finishing/Landscaping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636		500.2654	500.2654	0.1618		504.3103
Total	**0.1803**	**1.4029**	**3.2650**	**5.1700e-003**		**0.0691**	**0.0691**		**0.0636**	**0.0636**		**500.2654**	**500.2654**	**0.1618**		**504.3103**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0787	2.1631	3.8331	5.1700e-003		0.0164	0.0164		0.0156	0.0156	0.0000	500.2654	500.2654	0.1618		504.3103
Total	**0.0787**	**2.1631**	**3.8331**	**5.1700e-003**		**0.0164**	**0.0164**		**0.0156**	**0.0156**	**0.0000**	**500.2654**	**500.2654**	**0.1618**		**504.3103**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

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

3.14 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9143**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**		**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0580	0.0355	0.5300	1.7400e-003	0.2236	1.0800e-003	0.2246	0.0593	1.0000e-003	0.0603		175.8049	175.8049	3.9000e-003	4.1000e-003	177.1233
Total	**0.0580**	**0.0355**	**0.5300**	**1.7400e-003**	**0.2236**	**1.0800e-003**	**0.2246**	**0.0593**	**1.0000e-003**	**0.0603**		**175.8049**	**175.8049**	**3.9000e-003**	**4.1000e-003**	**177.1233**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3794	8.4013	13.9949	0.0189		0.0507	0.0507		0.0507	0.0507	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4124**	**8.4013**	**13.9949**	**0.0189**		**0.0507**	**0.0507**		**0.0507**	**0.0507**	**0.0000**	**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0580	0.0355	0.5300	1.7400e-003	0.2061	1.0800e-003	0.2071	0.0550	1.0000e-003	0.0560		175.8049	175.8049	3.9000e-003	4.1000e-003	177.1233
Total	**0.0580**	**0.0355**	**0.5300**	**1.7400e-003**	**0.2061**	**1.0800e-003**	**0.2071**	**0.0550**	**1.0000e-003**	**0.0560**		**175.8049**	**175.8049**	**3.9000e-003**	**4.1000e-003**	**177.1233**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

3.15 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	69.1089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**69.2897**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2292	0.1403	2.0935	6.8700e-003	0.8830	4.2800e-003	0.8873	0.2342	3.9400e-003	0.2381		694.4292	694.4292	0.0154	0.0162	699.6372
Total	**0.2292**	**0.1403**	**2.0935**	**6.8700e-003**	**0.8830**	**4.2800e-003**	**0.8873**	**0.2342**	**3.9400e-003**	**0.2381**		**694.4292**	**694.4292**	**0.0154**	**0.0162**	**699.6372**

The Hub Fullerton Mitigated Construction Run - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	69.1089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**69.1634**	**1.0598**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2292	0.1403	2.0935	6.8700e-003	0.8139	4.2800e-003	0.8182	0.2172	3.9400e-003	0.2212		694.4292	694.4292	0.0154	0.0162	699.6372
Total	**0.2292**	**0.1403**	**2.0935**	**6.8700e-003**	**0.8139**	**4.2800e-003**	**0.8182**	**0.2172**	**3.9400e-003**	**0.2212**		**694.4292**	**694.4292**	**0.0154**	**0.0162**	**699.6372**

CalEEMod Operations Model

The Hub Fullerton Operations

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	145.95	1000sqft	0.44	145,952.00	0
Other Non-Asphalt Surfaces	68.46	1000sqft	1.57	68,464.00	0
Apartments Mid Rise	420.00	Dwelling Unit	1.21	471,522.00	1201
Regional Shopping Center	12.44	1000sqft	0.29	12,438.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - based on info from applicant

Construction Phase -

Vehicle Trips - based on info from F&P

Vehicle Emission Factors - EMFAC 2017 adjustment, see assumptions file for adjustments

Woodstoves - assumes 3 barbecues and 3 firepits

Area Coating - based on info provided by applicant, see assumptions file

Energy Use - adjustment to energy use based on NORESCO study, see assumptions file for calcs

Water And Wastewater - based on sewer study and MAWA residential worksheet

Water Mitigation -

Fleet Mix - see fleet mix adjustment in assumptions file

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Residential_Exterior	50	100
tblAreaCoating	Area_EF_Residential_Interior	50	100
tblAreaCoating	Area_Nonresidential_Exterior	6219	36799
tblAreaCoating	Area_Parking	12865	8757
tblAreaCoating	Area_Residential_Exterior	318277	15914
tblEnergyUse	T24E	179.76	176.16
tblEnergyUse	T24E	3.92	3.50
tblEnergyUse	T24E	2.93	2.62
tblEnergyUse	T24NG	5,911.46	5,615.89
tblEnergyUse	T24NG	0.95	0.94
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	357.00	6.00
tblFireplaces	NumberNoFireplace	42.00	414.00
tblFireplaces	NumberWood	21.00	0.00
tblFleetMix	HHD	0.02	2.7060e-003
tblFleetMix	LDA	0.57	0.67
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.01	2.2070e-003
tblFleetMix	LHD2	5.7730e-003	8.7600e-004
tblFleetMix	MCY	4.9530e-003	6.1330e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	8.7700e-004	1.3300e-004
tblFleetMix	MHD	0.03	3.9870e-003

tblFleetMix	OBUS	1.7920e-003	0.00
tblFleetMix	SBUS	6.0200e-004	9.1000e-005
tblFleetMix	UBUS	1.5090e-003	0.00
tblLandUse	LandUseSquareFeet	145,950.00	145,952.00
tblLandUse	LandUseSquareFeet	68,460.00	68,464.00
tblLandUse	LandUseSquareFeet	420,000.00	471,522.00
tblLandUse	LandUseSquareFeet	12,440.00	12,438.00
tblLandUse	LotAcreage	3.35	0.44
tblLandUse	LotAcreage	11.05	1.21
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleEF	HHD	0.44	0.03
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.47	6.07
tblVehicleEF	HHD	1.26	0.64
tblVehicleEF	HHD	4.25	0.01
tblVehicleEF	HHD	3,818.18	1,012.56
tblVehicleEF	HHD	1,584.91	1,373.65
tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	12.98	5.26
tblVehicleEF	HHD	1.77	2.42
tblVehicleEF	HHD	19.03	2.48
tblVehicleEF	HHD	0.01	2.9540e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0000e-006
tblVehicleEF	HHD	0.01	2.8260e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.6690e-003	8.7620e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0000e-006
tblVehicleEF	HHD	1.1600e-004	4.0000e-006
tblVehicleEF	HHD	4.7330e-003	1.5600e-004
tblVehicleEF	HHD	0.35	0.40
tblVehicleEF	HHD	8.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	4.2800e-004	6.3000e-005
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	9.2460e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0800e-004	1.0000e-006
tblVehicleEF	HHD	1.1600e-004	4.0000e-006
tblVehicleEF	HHD	4.7330e-003	1.5600e-004
tblVehicleEF	HHD	0.43	0.47
tblVehicleEF	HHD	8.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	4.2800e-004	6.3000e-005
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.42	0.03
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.07	5.98
tblVehicleEF	HHD	1.27	0.64
tblVehicleEF	HHD	4.05	9.6240e-003
tblVehicleEF	HHD	4,045.03	1,001.49
tblVehicleEF	HHD	1,584.91	1,373.65
tblVehicleEF	HHD	13.84	0.08

tblVehicleEF	HHD	13.40	5.04
tblVehicleEF	HHD	1.67	2.30
tblVehicleEF	HHD	19.02	2.48
tblVehicleEF	HHD	9.0000e-003	2.5700e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0000e-006
tblVehicleEF	HHD	8.6100e-003	2.4590e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6690e-003	8.7620e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0000e-006
tblVehicleEF	HHD	1.6500e-004	5.0000e-006
tblVehicleEF	HHD	4.8270e-003	1.5800e-004
tblVehicleEF	HHD	0.33	0.43
tblVehicleEF	HHD	1.2300e-004	4.0000e-006
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	4.1200e-004	6.1000e-005
tblVehicleEF	HHD	0.08	4.0000e-006
tblVehicleEF	HHD	0.04	9.1420e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0400e-004	1.0000e-006
tblVehicleEF	HHD	1.6500e-004	5.0000e-006
tblVehicleEF	HHD	4.8270e-003	1.5800e-004
tblVehicleEF	HHD	0.41	0.50
tblVehicleEF	HHD	1.2300e-004	4.0000e-006
tblVehicleEF	HHD	0.26	0.17
tblVehicleEF	HHD	4.1200e-004	6.1000e-005

tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.48	0.02
tblVehicleEF	HHD	0.16	8.8800e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	2.03	6.01
tblVehicleEF	HHD	1.26	0.21
tblVehicleEF	HHD	4.29	0.01
tblVehicleEF	HHD	3,504.93	993.90
tblVehicleEF	HHD	1,584.91	1,270.38
tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	12.41	5.37
tblVehicleEF	HHD	1.74	2.32
tblVehicleEF	HHD	19.03	2.48
tblVehicleEF	HHD	0.01	3.1440e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0000e-006
tblVehicleEF	HHD	0.01	3.0080e-003
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6690e-003	8.4790e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0000e-006
tblVehicleEF	HHD	1.1300e-004	4.0000e-006
tblVehicleEF	HHD	5.0410e-003	1.7200e-004
tblVehicleEF	HHD	0.38	0.37
tblVehicleEF	HHD	8.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.6700e-004	6.7000e-005

tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	9.3900e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0800e-004	1.0000e-006
tblVehicleEF	HHD	1.1300e-004	4.0000e-006
tblVehicleEF	HHD	5.0410e-003	1.7200e-004
tblVehicleEF	HHD	0.46	0.42
tblVehicleEF	HHD	8.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.25	0.02
tblVehicleEF	HHD	4.6700e-004	6.7000e-005
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	LDA	3.2540e-003	1.8160e-003
tblVehicleEF	LDA	3.5200e-003	0.04
tblVehicleEF	LDA	0.48	0.55
tblVehicleEF	LDA	0.84	1.93
tblVehicleEF	LDA	231.86	246.35
tblVehicleEF	LDA	51.83	50.40
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.15
tblVehicleEF	LDA	1.8000e-003	1.4320e-003
tblVehicleEF	LDA	2.2330e-003	1.6850e-003
tblVehicleEF	LDA	1.6580e-003	1.3180e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.1920e-003	6.5890e-003
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.05	0.17

tblVehicleEF	LDA	2.3210e-003	2.3880e-003
tblVehicleEF	LDA	5.3200e-004	4.8900e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.5740e-003
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4390e-003	1.9350e-003
tblVehicleEF	LDA	3.1700e-003	0.04
tblVehicleEF	LDA	0.52	0.60
tblVehicleEF	LDA	0.73	1.66
tblVehicleEF	LDA	241.58	256.41
tblVehicleEF	LDA	51.83	49.92
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	1.8000e-003	1.4320e-003
tblVehicleEF	LDA	2.2330e-003	1.6850e-003
tblVehicleEF	LDA	1.6580e-003	1.3180e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	8.6510e-003	6.9570e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	2.4190e-003	2.4850e-003
tblVehicleEF	LDA	5.3000e-004	4.8400e-004
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.1920e-003	1.7790e-003
tblVehicleEF	LDA	3.5920e-003	0.04
tblVehicleEF	LDA	0.47	0.53
tblVehicleEF	LDA	0.87	1.98
tblVehicleEF	LDA	228.27	242.64
tblVehicleEF	LDA	51.83	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.16
tblVehicleEF	LDA	1.8000e-003	1.4320e-003
tblVehicleEF	LDA	2.2330e-003	1.6850e-003
tblVehicleEF	LDA	1.6580e-003	1.3180e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.0370e-003	6.4650e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2850e-003	2.3520e-003
tblVehicleEF	LDA	5.3300e-004	4.9000e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.3940e-003

tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDT1	7.2360e-003	4.1470e-003
tblVehicleEF	LDT1	9.9520e-003	0.06
tblVehicleEF	LDT1	0.92	0.93
tblVehicleEF	LDT1	2.03	2.10
tblVehicleEF	LDT1	292.62	293.91
tblVehicleEF	LDT1	65.95	61.09
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	2.2960e-003	1.8510e-003
tblVehicleEF	LDT1	2.9420e-003	2.1800e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.13	0.27
tblVehicleEF	LDT1	2.9360e-003	2.8490e-003
tblVehicleEF	LDT1	6.9500e-004	5.9200e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.15	0.29
tblVehicleEF	LDT1	7.6070e-003	4.3890e-003

tblVehicleEF	LDT1	8.9270e-003	0.05
tblVehicleEF	LDT1	0.99	1.01
tblVehicleEF	LDT1	1.75	1.81
tblVehicleEF	LDT1	304.46	304.24
tblVehicleEF	LDT1	65.95	60.53
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.11	0.20
tblVehicleEF	LDT1	2.2960e-003	1.8510e-003
tblVehicleEF	LDT1	2.9420e-003	2.1800e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0050e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	3.0550e-003	2.9500e-003
tblVehicleEF	LDT1	6.9000e-004	5.8700e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.13	0.26
tblVehicleEF	LDT1	7.1090e-003	4.0700e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	0.89	0.90
tblVehicleEF	LDT1	2.09	2.16

tblVehicleEF	LDT1	288.25	290.09
tblVehicleEF	LDT1	65.95	61.21
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	2.2960e-003	1.8510e-003
tblVehicleEF	LDT1	2.9420e-003	2.1800e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.14	0.27
tblVehicleEF	LDT1	2.8920e-003	2.8120e-003
tblVehicleEF	LDT1	6.9600e-004	5.9300e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.15	0.30
tblVehicleEF	LDT2	4.5940e-003	2.9810e-003
tblVehicleEF	LDT2	4.8100e-003	0.06
tblVehicleEF	LDT2	0.64	0.74
tblVehicleEF	LDT2	1.11	2.45
tblVehicleEF	LDT2	329.48	312.71
tblVehicleEF	LDT2	73.66	65.44
tblVehicleEF	LDT2	0.05	0.05

tblVehicleEF	LDT2	0.08	0.22
tblVehicleEF	LDT2	1.8470e-003	1.4660e-003
tblVehicleEF	LDT2	2.3090e-003	1.6630e-003
tblVehicleEF	LDT2	1.6990e-003	1.3500e-003
tblVehicleEF	LDT2	2.1230e-003	1.5290e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	3.2990e-003	3.0310e-003
tblVehicleEF	LDT2	7.5500e-004	6.3400e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.07	0.27
tblVehicleEF	LDT2	4.8530e-003	3.1670e-003
tblVehicleEF	LDT2	4.3330e-003	0.05
tblVehicleEF	LDT2	0.69	0.80
tblVehicleEF	LDT2	0.96	2.11
tblVehicleEF	LDT2	342.98	322.65
tblVehicleEF	LDT2	73.66	64.81
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.07	0.21
tblVehicleEF	LDT2	1.8470e-003	1.4660e-003
tblVehicleEF	LDT2	2.3090e-003	1.6630e-003

tblVehicleEF	LDT2	1.6990e-003	1.3500e-003
tblVehicleEF	LDT2	2.1230e-003	1.5290e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.23
tblVehicleEF	LDT2	3.4350e-003	3.1280e-003
tblVehicleEF	LDT2	7.5200e-004	6.2800e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	4.5070e-003	2.9220e-003
tblVehicleEF	LDT2	4.9080e-003	0.06
tblVehicleEF	LDT2	0.62	0.72
tblVehicleEF	LDT2	1.14	2.52
tblVehicleEF	LDT2	324.49	309.04
tblVehicleEF	LDT2	73.66	65.58
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.08	0.23
tblVehicleEF	LDT2	1.8470e-003	1.4660e-003
tblVehicleEF	LDT2	2.3090e-003	1.6630e-003
tblVehicleEF	LDT2	1.6990e-003	1.3500e-003
tblVehicleEF	LDT2	2.1230e-003	1.5290e-003
tblVehicleEF	LDT2	0.04	0.06

tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.2490e-003	2.9960e-003
tblVehicleEF	LDT2	7.5500e-004	6.3600e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LHD1	4.8760e-003	5.1790e-003
tblVehicleEF	LHD1	7.3850e-003	3.6570e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.42
tblVehicleEF	LHD1	2.05	0.96
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.39
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.97	0.58
tblVehicleEF	LHD1	0.88	0.30
tblVehicleEF	LHD1	8.7700e-004	8.3800e-004
tblVehicleEF	LHD1	0.01	9.8000e-003
tblVehicleEF	LHD1	9.4650e-003	6.3810e-003
tblVehicleEF	LHD1	7.7100e-004	2.2200e-004

tblVehicleEF	LHD1	8.3900e-004	8.0200e-004
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0820e-003
tblVehicleEF	LHD1	7.0900e-004	2.0400e-004
tblVehicleEF	LHD1	2.4720e-003	1.8820e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6210e-003	1.2380e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7060e-003	6.1790e-003
tblVehicleEF	LHD1	3.3900e-004	1.1300e-004
tblVehicleEF	LHD1	2.4720e-003	1.8820e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6210e-003	1.2380e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8760e-003	5.1900e-003
tblVehicleEF	LHD1	7.5120e-003	3.7120e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.59	0.42
tblVehicleEF	LHD1	1.97	0.92
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.59

tblVehicleEF	LHD1	30.08	11.32
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.92	0.55
tblVehicleEF	LHD1	0.84	0.28
tblVehicleEF	LHD1	8.7700e-004	8.3800e-004
tblVehicleEF	LHD1	0.01	9.8000e-003
tblVehicleEF	LHD1	9.4650e-003	6.3810e-003
tblVehicleEF	LHD1	7.7100e-004	2.2200e-004
tblVehicleEF	LHD1	8.3900e-004	8.0200e-004
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0820e-003
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tblVehicleEF	LHD1	3.4440e-003	2.6310e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.20	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7070e-003	6.1790e-003
tblVehicleEF	LHD1	3.3800e-004	1.1200e-004
tblVehicleEF	LHD1	3.4440e-003	2.6310e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.22	0.07

tblVehicleEF	LHD1	4.8760e-003	5.1770e-003
tblVehicleEF	LHD1	7.3500e-003	3.6420e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.41
tblVehicleEF	LHD1	2.06	0.97
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.40
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.96	0.57
tblVehicleEF	LHD1	0.89	0.30
tblVehicleEF	LHD1	8.7700e-004	8.3800e-004
tblVehicleEF	LHD1	0.01	9.8000e-003
tblVehicleEF	LHD1	9.4650e-003	6.3810e-003
tblVehicleEF	LHD1	7.7100e-004	2.2200e-004
tblVehicleEF	LHD1	8.3900e-004	8.0200e-004
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0820e-003
tblVehicleEF	LHD1	7.0900e-004	2.0400e-004
tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6290e-003	1.2470e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7060e-003	6.1790e-003

tblVehicleEF	LHD1	3.4000e-004	1.1300e-004
tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6290e-003	1.2470e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.5130e-003	3.7120e-003
tblVehicleEF	LHD2	3.0250e-003	2.8570e-003
tblVehicleEF	LHD2	6.4370e-003	9.0450e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.94
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.66
tblVehicleEF	LHD2	0.47	0.21
tblVehicleEF	LHD2	1.1390e-003	1.2800e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2250e-003
tblVehicleEF	LHD2	2.6730e-003	2.6460e-003
tblVehicleEF	LHD2	7.9990e-003	9.1750e-003
tblVehicleEF	LHD2	3.6300e-004	1.1800e-004
tblVehicleEF	LHD2	9.0300e-004	1.2060e-003

tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	5.8410e-003	6.2140e-003
tblVehicleEF	LHD2	2.7900e-004	8.9000e-005
tblVehicleEF	LHD2	9.0300e-004	1.2060e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7190e-003
tblVehicleEF	LHD2	3.0530e-003	2.8800e-003
tblVehicleEF	LHD2	6.2440e-003	8.7610e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.06	0.62
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.90
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.62
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.1390e-003	1.2800e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2250e-003
tblVehicleEF	LHD2	2.6730e-003	2.6460e-003
tblVehicleEF	LHD2	7.9990e-003	9.1750e-003
tblVehicleEF	LHD2	3.6300e-004	1.1800e-004
tblVehicleEF	LHD2	1.2670e-003	1.6890e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1130e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	5.8410e-003	6.2140e-003
tblVehicleEF	LHD2	2.7900e-004	8.8000e-005
tblVehicleEF	LHD2	1.2670e-003	1.6890e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1130e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7100e-003
tblVehicleEF	LHD2	3.0170e-003	2.8500e-003
tblVehicleEF	LHD2	6.4770e-003	9.1040e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31

tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.39
tblVehicleEF	LHD2	25.96	8.95
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.65
tblVehicleEF	LHD2	0.47	0.21
tblVehicleEF	LHD2	1.1390e-003	1.2800e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2250e-003
tblVehicleEF	LHD2	2.6730e-003	2.6460e-003
tblVehicleEF	LHD2	7.9990e-003	9.1750e-003
tblVehicleEF	LHD2	3.6300e-004	1.1800e-004
tblVehicleEF	LHD2	8.9600e-004	1.2110e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	5.8410e-003	6.2140e-003
tblVehicleEF	LHD2	2.8000e-004	8.9000e-005
tblVehicleEF	LHD2	8.9600e-004	1.2110e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1400e-004

tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.95	18.16
tblVehicleEF	MCY	9.61	8.50
tblVehicleEF	MCY	178.67	214.64
tblVehicleEF	MCY	44.17	59.14
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.2470e-003	2.2320e-003
tblVehicleEF	MCY	3.4860e-003	2.9930e-003
tblVehicleEF	MCY	2.0980e-003	2.0840e-003
tblVehicleEF	MCY	3.2740e-003	2.8100e-003
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68
tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.34	2.35
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.02	1.79
tblVehicleEF	MCY	2.1510e-003	2.1240e-003
tblVehicleEF	MCY	6.5800e-004	5.8500e-004
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68
tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.92	2.93
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.20	1.95

tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.31	17.50
tblVehicleEF	MCY	8.84	7.78
tblVehicleEF	MCY	178.67	213.41
tblVehicleEF	MCY	44.17	57.38
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.2470e-003	2.2320e-003
tblVehicleEF	MCY	3.4860e-003	2.9930e-003
tblVehicleEF	MCY	2.0980e-003	2.0840e-003
tblVehicleEF	MCY	3.2740e-003	2.8100e-003
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.29	2.30
tblVehicleEF	MCY	0.56	0.50
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.1390e-003	2.1120e-003
tblVehicleEF	MCY	6.3900e-004	5.6800e-004
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.85	2.86
tblVehicleEF	MCY	0.56	0.50
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.04	18.25

tblVehicleEF	MCY	9.73	8.62
tblVehicleEF	MCY	178.67	214.83
tblVehicleEF	MCY	44.17	59.46
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.2470e-003	2.2320e-003
tblVehicleEF	MCY	3.4860e-003	2.9930e-003
tblVehicleEF	MCY	2.0980e-003	2.0840e-003
tblVehicleEF	MCY	3.2740e-003	2.8100e-003
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.35	2.36
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.1520e-003	2.1260e-003
tblVehicleEF	MCY	6.6100e-004	5.8800e-004
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.93	2.94
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.24	1.99
tblVehicleEF	MDV	8.2720e-003	3.7210e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	0.96	0.83
tblVehicleEF	MDV	1.95	2.70
tblVehicleEF	MDV	450.89	387.66
tblVehicleEF	MDV	98.57	79.61

tblVehicleEF	MDV	0.10	0.07
tblVehicleEF	MDV	0.17	0.27
tblVehicleEF	MDV	1.8710e-003	1.5460e-003
tblVehicleEF	MDV	2.2680e-003	1.7230e-003
tblVehicleEF	MDV	1.7240e-003	1.4260e-003
tblVehicleEF	MDV	2.0860e-003	1.5840e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	4.5120e-003	3.7560e-003
tblVehicleEF	MDV	1.0190e-003	7.7200e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.15	0.34
tblVehicleEF	MDV	8.7240e-003	3.9510e-003
tblVehicleEF	MDV	9.3780e-003	0.06
tblVehicleEF	MDV	1.04	0.90
tblVehicleEF	MDV	1.69	2.32
tblVehicleEF	MDV	468.83	397.99
tblVehicleEF	MDV	98.57	78.90
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.25
tblVehicleEF	MDV	1.8710e-003	1.5460e-003

tblVehicleEF	MDV	2.2680e-003	1.7230e-003
tblVehicleEF	MDV	1.7240e-003	1.4260e-003
tblVehicleEF	MDV	2.0860e-003	1.5840e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.13	0.28
tblVehicleEF	MDV	4.6930e-003	3.8560e-003
tblVehicleEF	MDV	1.0150e-003	7.6500e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	8.1180e-003	3.6470e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	0.93	0.80
tblVehicleEF	MDV	2.00	2.78
tblVehicleEF	MDV	444.26	383.84
tblVehicleEF	MDV	98.57	79.77
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.17	0.28
tblVehicleEF	MDV	1.8710e-003	1.5460e-003
tblVehicleEF	MDV	2.2680e-003	1.7230e-003
tblVehicleEF	MDV	1.7240e-003	1.4260e-003
tblVehicleEF	MDV	2.0860e-003	1.5840e-003

tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.14	0.32
tblVehicleEF	MDV	4.4460e-003	3.7190e-003
tblVehicleEF	MDV	1.0200e-003	7.7300e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MH	0.02	6.9350e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.27	0.73
tblVehicleEF	MH	4.43	1.75
tblVehicleEF	MH	1,096.02	1,403.51
tblVehicleEF	MH	56.63	16.91
tblVehicleEF	MH	1.16	1.27
tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1600e-004
tblVehicleEF	MH	3.2400e-003	3.3090e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9900e-004
tblVehicleEF	MH	0.74	0.62

tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.4300e-004	1.6700e-004
tblVehicleEF	MH	0.74	0.62
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.02	7.0670e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.30	0.74
tblVehicleEF	MH	4.20	1.66
tblVehicleEF	MH	1,096.02	1,403.53
tblVehicleEF	MH	56.63	16.76
tblVehicleEF	MH	1.08	1.19
tblVehicleEF	MH	0.65	0.22
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1600e-004
tblVehicleEF	MH	3.2400e-003	3.3090e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9900e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04

tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	9.8870e-003
tblVehicleEF	MH	0.25	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.3900e-004	1.6600e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	9.8870e-003
tblVehicleEF	MH	0.27	0.08
tblVehicleEF	MH	0.02	6.8950e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.26	0.72
tblVehicleEF	MH	4.46	1.77
tblVehicleEF	MH	1,096.02	1,403.50
tblVehicleEF	MH	56.63	16.93
tblVehicleEF	MH	1.14	1.24
tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1600e-004
tblVehicleEF	MH	3.2400e-003	3.3090e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9900e-004
tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29

tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.4400e-004	1.6800e-004
tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MHD	0.02	4.6040e-003
tblVehicleEF	MHD	2.6670e-003	1.2190e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.32	0.38
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.63	1.13
tblVehicleEF	MHD	143.49	52.64
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.92
tblVehicleEF	MHD	0.37	0.25
tblVehicleEF	MHD	0.68	0.96
tblVehicleEF	MHD	11.00	1.55
tblVehicleEF	MHD	6.9000e-005	1.7500e-004
tblVehicleEF	MHD	2.8070e-003	6.0480e-003
tblVehicleEF	MHD	6.9200e-004	1.1100e-004
tblVehicleEF	MHD	6.6000e-005	1.6700e-004
tblVehicleEF	MHD	2.6820e-003	5.7810e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004

tblVehicleEF	MHD	9.3500e-004	4.6900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.4100e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.05
tblVehicleEF	MHD	1.3800e-003	5.0100e-004
tblVehicleEF	MHD	0.01	9.5000e-003
tblVehicleEF	MHD	6.4800e-004	1.1800e-004
tblVehicleEF	MHD	9.3500e-004	4.6900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.5100e-004	3.4100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.06
tblVehicleEF	MHD	0.01	4.3670e-003
tblVehicleEF	MHD	2.6950e-003	1.2410e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.41	1.08
tblVehicleEF	MHD	151.98	52.58
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.83
tblVehicleEF	MHD	0.38	0.24
tblVehicleEF	MHD	0.65	0.90
tblVehicleEF	MHD	10.97	1.55

tblVehicleEF	MHD	5.8000e-005	1.5000e-004
tblVehicleEF	MHD	2.8070e-003	6.0480e-003
tblVehicleEF	MHD	6.9200e-004	1.1100e-004
tblVehicleEF	MHD	5.5000e-005	1.4300e-004
tblVehicleEF	MHD	2.6820e-003	5.7810e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	1.3170e-003	6.6100e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.8900e-004	4.6400e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.28	0.05
tblVehicleEF	MHD	1.4600e-003	5.0100e-004
tblVehicleEF	MHD	0.01	9.5000e-003
tblVehicleEF	MHD	6.4400e-004	1.1700e-004
tblVehicleEF	MHD	1.3170e-003	6.6100e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.8900e-004	4.6400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.30	0.06
tblVehicleEF	MHD	0.02	4.9470e-003
tblVehicleEF	MHD	2.6590e-003	1.2110e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.45	0.47
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.67	1.14

tblVehicleEF	MHD	131.74	52.73
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.94
tblVehicleEF	MHD	0.35	0.26
tblVehicleEF	MHD	0.67	0.94
tblVehicleEF	MHD	11.01	1.55
tblVehicleEF	MHD	8.4000e-005	2.1000e-004
tblVehicleEF	MHD	2.8070e-003	6.0480e-003
tblVehicleEF	MHD	6.9200e-004	1.1100e-004
tblVehicleEF	MHD	8.0000e-005	2.0100e-004
tblVehicleEF	MHD	2.6820e-003	5.7810e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	9.4200e-004	4.6200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5200e-004	3.3800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.06
tblVehicleEF	MHD	1.2700e-003	5.0200e-004
tblVehicleEF	MHD	0.01	9.5000e-003
tblVehicleEF	MHD	6.4800e-004	1.1800e-004
tblVehicleEF	MHD	9.4200e-004	4.6200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.5200e-004	3.3800e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.32	0.06

tblVehicleEF	OBUS	0.01	8.6550e-003
tblVehicleEF	OBUS	5.2770e-003	4.3820e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.56
tblVehicleEF	OBUS	0.39	0.54
tblVehicleEF	OBUS	4.82	2.26
tblVehicleEF	OBUS	76.59	78.18
tblVehicleEF	OBUS	1,203.91	1,334.33
tblVehicleEF	OBUS	69.07	19.41
tblVehicleEF	OBUS	0.15	0.30
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	1.95	0.75
tblVehicleEF	OBUS	1.4000e-005	9.9000e-005
tblVehicleEF	OBUS	2.4030e-003	6.5550e-003
tblVehicleEF	OBUS	8.9600e-004	2.0200e-004
tblVehicleEF	OBUS	1.3000e-005	9.5000e-005
tblVehicleEF	OBUS	2.2790e-003	6.2550e-003
tblVehicleEF	OBUS	8.2400e-004	1.8600e-004
tblVehicleEF	OBUS	1.3360e-003	1.7510e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4000e-004	9.5000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.30	0.11
tblVehicleEF	OBUS	7.4300e-004	7.4500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9200e-004
tblVehicleEF	OBUS	1.3360e-003	1.7510e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.4000e-004	9.5000e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	0.01	8.7320e-003
tblVehicleEF	OBUS	5.3660e-003	4.4740e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.55
tblVehicleEF	OBUS	0.39	0.55
tblVehicleEF	OBUS	4.58	2.14
tblVehicleEF	OBUS	80.14	77.32
tblVehicleEF	OBUS	1,203.91	1,334.35
tblVehicleEF	OBUS	69.07	19.21
tblVehicleEF	OBUS	0.16	0.28
tblVehicleEF	OBUS	0.52	0.92
tblVehicleEF	OBUS	1.92	0.74
tblVehicleEF	OBUS	1.2000e-005	8.8000e-005
tblVehicleEF	OBUS	2.4030e-003	6.5550e-003
tblVehicleEF	OBUS	8.9600e-004	2.0200e-004
tblVehicleEF	OBUS	1.1000e-005	8.4000e-005
tblVehicleEF	OBUS	2.2790e-003	6.2550e-003
tblVehicleEF	OBUS	8.2400e-004	1.8600e-004
tblVehicleEF	OBUS	1.8380e-003	2.3950e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0100e-003	1.2840e-003
tblVehicleEF	OBUS	0.03	0.03

tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.29	0.11
tblVehicleEF	OBUS	7.7700e-004	7.3700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7100e-004	1.9000e-004
tblVehicleEF	OBUS	1.8380e-003	2.3950e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.0100e-003	1.2840e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.32	0.12
tblVehicleEF	OBUS	0.01	8.5700e-003
tblVehicleEF	OBUS	5.2500e-003	4.3550e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.56
tblVehicleEF	OBUS	0.38	0.54
tblVehicleEF	OBUS	4.86	2.28
tblVehicleEF	OBUS	71.70	79.37
tblVehicleEF	OBUS	1,203.91	1,334.32
tblVehicleEF	OBUS	69.07	19.44
tblVehicleEF	OBUS	0.15	0.32
tblVehicleEF	OBUS	0.54	0.96
tblVehicleEF	OBUS	1.96	0.76
tblVehicleEF	OBUS	1.7000e-005	1.1500e-004
tblVehicleEF	OBUS	2.4030e-003	6.5550e-003
tblVehicleEF	OBUS	8.9600e-004	2.0200e-004
tblVehicleEF	OBUS	1.6000e-005	1.1000e-004
tblVehicleEF	OBUS	2.2790e-003	6.2550e-003

tblVehicleEF	OBUS	8.2400e-004	1.8600e-004
tblVehicleEF	OBUS	1.3380e-003	1.7730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.3000e-004	9.4400e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9600e-004	7.5600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7600e-004	1.9200e-004
tblVehicleEF	OBUS	1.3380e-003	1.7730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	7.3000e-004	9.4400e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	SBUS	0.83	0.09
tblVehicleEF	SBUS	0.02	9.1570e-003
tblVehicleEF	SBUS	0.07	8.2300e-003
tblVehicleEF	SBUS	8.49	3.34
tblVehicleEF	SBUS	0.94	0.84
tblVehicleEF	SBUS	8.61	1.12
tblVehicleEF	SBUS	1,085.60	359.37
tblVehicleEF	SBUS	1,065.54	1,076.06
tblVehicleEF	SBUS	58.07	6.66
tblVehicleEF	SBUS	7.75	3.47
tblVehicleEF	SBUS	3.55	5.09

tblVehicleEF	SBUS	11.66	0.75
tblVehicleEF	SBUS	6.9310e-003	4.4780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7000e-005
tblVehicleEF	SBUS	6.6310e-003	4.2840e-003
tblVehicleEF	SBUS	2.6550e-003	2.6190e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.1000e-005
tblVehicleEF	SBUS	3.3910e-003	1.1510e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.01	0.40
tblVehicleEF	SBUS	1.9710e-003	6.6100e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.05
tblVehicleEF	SBUS	0.01	3.4360e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.3000e-004	6.6000e-005
tblVehicleEF	SBUS	3.3910e-003	1.1510e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.46	0.57
tblVehicleEF	SBUS	1.9710e-003	6.6100e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.50	0.05
tblVehicleEF	SBUS	0.83	0.09
tblVehicleEF	SBUS	0.02	9.2670e-003
tblVehicleEF	SBUS	0.06	7.3960e-003

tblVehicleEF	SBUS	8.40	3.30
tblVehicleEF	SBUS	0.95	0.85
tblVehicleEF	SBUS	7.12	0.92
tblVehicleEF	SBUS	1,133.08	368.54
tblVehicleEF	SBUS	1,065.54	1,076.08
tblVehicleEF	SBUS	58.07	6.33
tblVehicleEF	SBUS	8.00	3.55
tblVehicleEF	SBUS	3.35	4.81
tblVehicleEF	SBUS	11.63	0.75
tblVehicleEF	SBUS	5.8420e-003	3.7810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7000e-005
tblVehicleEF	SBUS	5.5900e-003	3.6170e-003
tblVehicleEF	SBUS	2.6550e-003	2.6190e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.1000e-005
tblVehicleEF	SBUS	4.6620e-003	1.5800e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.01	0.40
tblVehicleEF	SBUS	2.6790e-003	8.9500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.5220e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.0500e-004	6.3000e-005
tblVehicleEF	SBUS	4.6620e-003	1.5800e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.46	0.57
tblVehicleEF	SBUS	2.6790e-003	8.9500e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.45	0.05
tblVehicleEF	SBUS	0.83	0.09
tblVehicleEF	SBUS	0.02	9.1270e-003
tblVehicleEF	SBUS	0.07	8.3500e-003
tblVehicleEF	SBUS	8.63	3.39
tblVehicleEF	SBUS	0.93	0.83
tblVehicleEF	SBUS	8.75	1.13
tblVehicleEF	SBUS	1,020.03	346.72
tblVehicleEF	SBUS	1,065.54	1,076.06
tblVehicleEF	SBUS	58.07	6.69
tblVehicleEF	SBUS	7.41	3.35
tblVehicleEF	SBUS	3.49	5.00
tblVehicleEF	SBUS	11.67	0.75
tblVehicleEF	SBUS	8.4330e-003	5.4400e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7000e-005
tblVehicleEF	SBUS	8.0680e-003	5.2050e-003
tblVehicleEF	SBUS	2.6550e-003	2.6190e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.1000e-005
tblVehicleEF	SBUS	3.3080e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.01	0.40
tblVehicleEF	SBUS	1.9200e-003	6.4200e-004

tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.05
tblVehicleEF	SBUS	0.01	3.3160e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.3200e-004	6.6000e-005
tblVehicleEF	SBUS	3.3080e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.47	0.57
tblVehicleEF	SBUS	1.9200e-003	6.4200e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.51	0.05
tblVehicleEF	UBUS	1.60	1.2910e-003
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.75	0.07
tblVehicleEF	UBUS	12.30	1.81
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.36
tblVehicleEF	UBUS	3.61	0.05
tblVehicleEF	UBUS	13.00	0.18
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2580e-003
tblVehicleEF	UBUS	0.03	3.6000e-004
tblVehicleEF	UBUS	1.3330e-003	1.7000e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004
tblVehicleEF	UBUS	0.03	3.3100e-004
tblVehicleEF	UBUS	1.2250e-003	1.5700e-004

tblVehicleEF	UBUS	5.7880e-003	1.1460e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3800e-004
tblVehicleEF	UBUS	0.41	4.2710e-003
tblVehicleEF	UBUS	0.03	2.7280e-003
tblVehicleEF	UBUS	0.94	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8190e-003
tblVehicleEF	UBUS	1.6040e-003	2.0100e-004
tblVehicleEF	UBUS	5.7880e-003	1.1460e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3800e-004
tblVehicleEF	UBUS	2.05	6.2320e-003
tblVehicleEF	UBUS	0.03	2.7280e-003
tblVehicleEF	UBUS	1.03	0.12
tblVehicleEF	UBUS	1.60	1.3190e-003
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	7.80	0.07
tblVehicleEF	UBUS	10.86	1.61
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.00
tblVehicleEF	UBUS	3.38	0.04
tblVehicleEF	UBUS	12.93	0.17
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2580e-003
tblVehicleEF	UBUS	0.03	3.6000e-004
tblVehicleEF	UBUS	1.3330e-003	1.7000e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004
tblVehicleEF	UBUS	0.03	3.3100e-004

tblVehicleEF	UBUS	1.2250e-003	1.5700e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0200e-003
tblVehicleEF	UBUS	0.41	4.3520e-003
tblVehicleEF	UBUS	0.03	2.4620e-003
tblVehicleEF	UBUS	0.87	0.10
tblVehicleEF	UBUS	8.5530e-003	3.8190e-003
tblVehicleEF	UBUS	1.5790e-003	1.9800e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0200e-003
tblVehicleEF	UBUS	2.06	6.3510e-003
tblVehicleEF	UBUS	0.03	2.4620e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	1.60	1.2850e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	7.74	0.06
tblVehicleEF	UBUS	12.55	1.85
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.42
tblVehicleEF	UBUS	3.54	0.05
tblVehicleEF	UBUS	13.02	0.18
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2580e-003
tblVehicleEF	UBUS	0.03	3.6000e-004
tblVehicleEF	UBUS	1.3330e-003	1.7000e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004

tblVehicleEF	UBUS	0.03	3.3100e-004
tblVehicleEF	UBUS	1.2250e-003	1.5700e-004
tblVehicleEF	UBUS	6.4170e-003	1.1580e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.7120e-003	7.1600e-004
tblVehicleEF	UBUS	0.40	4.2510e-003
tblVehicleEF	UBUS	0.04	3.3320e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8190e-003
tblVehicleEF	UBUS	1.6080e-003	2.0200e-004
tblVehicleEF	UBUS	6.4170e-003	1.1580e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.7120e-003	7.1600e-004
tblVehicleEF	UBUS	2.05	6.2030e-003
tblVehicleEF	UBUS	0.04	3.3320e-003
tblVehicleEF	UBUS	1.05	0.12
tblVehicleTrips	CC_TL	8.40	5.94
tblVehicleTrips	CNW_TL	6.90	5.94
tblVehicleTrips	CW_TL	16.60	5.94
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	HO_TL	8.70	5.94
tblVehicleTrips	HS_TL	5.90	5.94
tblVehicleTrips	HW_TL	14.70	5.94
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	6.39	3.09

tblVehicleTrips	ST_TR	49.97	29.02
tblVehicleTrips	SU_TR	5.86	2.57
tblVehicleTrips	SU_TR	25.24	13.35
tblVehicleTrips	WD_TR	6.65	3.42
tblVehicleTrips	WD_TR	42.70	23.80
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	27,364,690.76	37,980,278.00
tblWater	IndoorWaterUseRate	921,462.17	0.00
tblWater	OutdoorWaterUseRate	17,251,652.87	155,398.00
tblWater	OutdoorWaterUseRate	564,767.13	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	21.00	0.00
tblWoodstoves	NumberNoncatalytic	21.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.0278	0.4988	34.7014	2.4700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	189.5004	189.5004	0.0624	2.3300e-003	191.7553
Energy	0.1389	1.1871	0.5079	7.5700e-003		0.0960	0.0960		0.0960	0.0960		1,514.9542	1,514.9542	0.0290	0.0278	1,523.9568
Mobile	2.4383	2.3766	25.5776	0.0696	8.1450	0.0457	8.1907	2.1639	0.0423	2.2062		7,201.3684	7,201.3684	0.2921		7,208.6706
Total	**14.6050**	**4.0625**	**60.7870**	**0.0796**	**8.1450**	**0.3418**	**8.4868**	**2.1639**	**0.3383**	**2.5022**	**0.0000**	**8,905.8230**	**8,905.8230**	**0.3836**	**0.0301**	**8,924.3828**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.0278	0.4988	34.7014	2.4700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	189.5004	189.5004	0.0624	2.3300e-003	191.7553
Energy	0.1389	1.1871	0.5079	7.5700e-003		0.0960	0.0960		0.0960	0.0960		1,514.9542	1,514.9542	0.0290	0.0278	1,523.9568
Mobile	2.4383	2.3766	25.5776	0.0696	8.1450	0.0457	8.1907	2.1639	0.0423	2.2062		7,201.3684	7,201.3684	0.2921		7,208.6706
Total	**14.6050**	**4.0625**	**60.7870**	**0.0796**	**8.1450**	**0.3418**	**8.4868**	**2.1639**	**0.3383**	**2.5022**	**0.0000**	**8,905.8230**	**8,905.8230**	**0.3836**	**0.0301**	**8,924.3828**

	ROG	NOx	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**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4383	2.3766	25.5776	0.0696	8.1450	0.0457	8.1907	2.1639	0.0423	2.2062		7,201.3684	7,201.3684	0.2921		7,208.6706
Unmitigated	2.4383	2.3766	25.5776	0.0696	8.1450	0.0457	8.1907	2.1639	0.0423	2.2062		7,201.3684	7,201.3684	0.2921		7,208.6706

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,436.40	1,297.80	1079.40	2,952,646	2,952,646
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	296.07	361.01	166.07	620,059	620,059
Total	1,732.47	1,658.81	1,245.47	3,572,705	3,572,705

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
Apartments Mid Rise	5.94	5.94	5.94	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	5.94	5.94	5.94	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.666486	0.050589	0.246793	0.020000	0.002207	0.000876	0.003987	0.002706	0.000000	0.000000	0.006133	0.000091	0.000133
Enclosed Parking with Elevator	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Other Non-Asphalt Surfaces	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Regional Shopping Center	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1389	1.1871	0.5079	7.5700e-003		0.0960	0.0960		0.0960	0.0960		1,514.9542	1,514.9542	0.0290	0.0278	1,523.9568
NaturalGas Unmitigated	0.1389	1.1871	0.5079	7.5700e-003		0.0960	0.0960		0.0960	0.0960		1,514.9542	1,514.9542	0.0290	0.0278	1,523.9568

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	12809.3	0.1381	1.1805	0.5023	7.5300e-003		0.0954	0.0954		0.0954	0.0954		1,506.9762	1,506.9762	0.0289	0.0276	1,515.9315
Enclosed Parking with Elevator	0	0.0000	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
Regional Shopping Center	67.8127	7.3000e-004	6.6500e-003	5.5800e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9780	7.9780	1.5000e-004	1.5000e-004	8.0254
Total		**0.1389**	**1.1871**	**0.5079**	**7.5700e-003**		**0.0960**	**0.0960**		**0.0960**	**0.0960**		**1,514.9542**	**1,514.9542**	**0.0290**	**0.0278**	**1,523.9568**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	12.8093	0.1381	1.1805	0.5023	7.5300e-003		0.0954	0.0954		0.0954	0.0954		1,506.9762	1,506.9762	0.0289	0.0276	1,515.9315
Enclosed Parking with Elevator	0	0.0000	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
Regional Shopping Center	0.0678127	7.3000e-004	6.6500e-003	5.5800e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9780	7.9780	1.5000e-004	1.5000e-004	8.0254
Total		**0.1389**	**1.1871**	**0.5079**	**7.5700e-003**		**0.0960**	**0.0960**		**0.0960**	**0.0960**		**1,514.9542**	**1,514.9542**	**0.0290**	**0.0278**	**1,523.9568**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.0278	0.4988	34.7014	2.4700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	189.5004	189.5004	0.0624	2.3300e-003	191.7553
Unmitigated	12.0278	0.4988	34.7014	2.4700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	189.5004	189.5004	0.0624	2.3300e-003	191.7553

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6584					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0117	0.0995	0.0424	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003	0.0000	127.0588	127.0588	2.4400e-003	2.3300e-003	127.8139
Landscaping	1.0436	0.3993	34.6591	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4416	62.4416	0.0600		63.9415
Total	**12.0278**	**0.4988**	**34.7014**	**2.4700e-003**		**0.2001**	**0.2001**		**0.2001**	**0.2001**	**0.0000**	**189.5004**	**189.5004**	**0.0624**	**2.3300e-003**	**191.7553**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6584					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0117	0.0995	0.0424	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003	0.0000	127.0588	127.0588	2.4400e-003	2.3300e-003	127.8139
Landscaping	1.0436	0.3993	34.6591	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4416	62.4416	0.0600		63.9415
Total	**12.0278**	**0.4988**	**34.7014**	**2.4700e-003**		**0.2001**	**0.2001**		**0.2001**	**0.2001**	**0.0000**	**189.5004**	**189.5004**	**0.0624**	**2.3300e-003**	**191.7553**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

The Hub Fullerton Operations

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	145.95	1000sqft	0.44	145,952.00	0
Other Non-Asphalt Surfaces	68.46	1000sqft	1.57	68,464.00	0
Apartments Mid Rise	420.00	Dwelling Unit	1.21	471,522.00	1201
Regional Shopping Center	12.44	1000sqft	0.29	12,438.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - based on info from applicant

Construction Phase -

Vehicle Trips - based on info from F&P

Vehicle Emission Factors - EMFAC 2017 adjustment, see assumptions file for adjustments

Woodstoves - assumes 3 barbecues and 3 firepits

Area Coating - based on info provided by applicant, see assumptions file

Energy Use - adjustment to energy use based on NORESCO study, see assumptions file for calcs

Water And Wastewater - based on sewer study and MAWA residential worksheet

Water Mitigation -

Fleet Mix - see fleet mix adjustment in assumptions file

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Residential_Exterior	50	100
tblAreaCoating	Area_EF_Residential_Interior	50	100
tblAreaCoating	Area_Nonresidential_Exterior	6219	36799
tblAreaCoating	Area_Parking	12865	8757
tblAreaCoating	Area_Residential_Exterior	318277	15914
tblEnergyUse	T24E	179.76	176.16
tblEnergyUse	T24E	3.92	3.50
tblEnergyUse	T24E	2.93	2.62
tblEnergyUse	T24NG	5,911.46	5,615.89
tblEnergyUse	T24NG	0.95	0.94
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	357.00	6.00
tblFireplaces	NumberNoFireplace	42.00	414.00
tblFireplaces	NumberWood	21.00	0.00
tblFleetMix	HHD	0.02	2.7060e-003
tblFleetMix	LDA	0.57	0.67
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.01	2.2070e-003
tblFleetMix	LHD2	5.7730e-003	8.7600e-004
tblFleetMix	MCY	4.9530e-003	6.1330e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	8.7700e-004	1.3300e-004
tblFleetMix	MHD	0.03	3.9870e-003

tblFleetMix	OBUS	1.7920e-003	0.00
tblFleetMix	SBUS	6.0200e-004	9.1000e-005
tblFleetMix	UBUS	1.5090e-003	0.00
tblLandUse	LandUseSquareFeet	145,950.00	145,952.00
tblLandUse	LandUseSquareFeet	68,460.00	68,464.00
tblLandUse	LandUseSquareFeet	420,000.00	471,522.00
tblLandUse	LandUseSquareFeet	12,440.00	12,438.00
tblLandUse	LotAcreage	3.35	0.44
tblLandUse	LotAcreage	11.05	1.21
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleEF	HHD	0.44	0.03
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	0.06	1.0000e-006
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tblVehicleEF	HHD	1,584.91	1,373.65
tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	12.98	5.26
tblVehicleEF	HHD	1.77	2.42
tblVehicleEF	HHD	19.03	2.48
tblVehicleEF	HHD	0.01	2.9540e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	6.0110e-003	0.02
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tblVehicleEF	HHD	0.01	2.8260e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.6690e-003	8.7620e-003
tblVehicleEF	HHD	5.7510e-003	0.02
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tblVehicleEF	HHD	2.0800e-004	1.0000e-006
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tblVehicleEF	HHD	0.06	1.0000e-006
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tblVehicleEF	HHD	13.84	0.08

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tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0000e-006
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tblVehicleEF	HHD	8.6690e-003	8.7620e-003
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tblVehicleEF	HHD	2.0400e-004	1.0000e-006
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tblVehicleEF	HHD	4.1200e-004	6.1000e-005

tblVehicleEF	HHD	0.09	4.0000e-006
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0000e-006
tblVehicleEF	HHD	0.01	3.0080e-003
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6690e-003	8.4790e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0000e-006
tblVehicleEF	HHD	1.1300e-004	4.0000e-006
tblVehicleEF	HHD	5.0410e-003	1.7200e-004
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tblVehicleEF	HHD	8.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.6700e-004	6.7000e-005

tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	9.3900e-003
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tblVehicleEF	HHD	2.0800e-004	1.0000e-006
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tblVehicleEF	HHD	5.0410e-003	1.7200e-004
tblVehicleEF	HHD	0.46	0.42
tblVehicleEF	HHD	8.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.25	0.02
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tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	LDA	3.2540e-003	1.8160e-003
tblVehicleEF	LDA	3.5200e-003	0.04
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tblVehicleEF	LDA	0.84	1.93
tblVehicleEF	LDA	231.86	246.35
tblVehicleEF	LDA	51.83	50.40
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.15
tblVehicleEF	LDA	1.8000e-003	1.4320e-003
tblVehicleEF	LDA	2.2330e-003	1.6850e-003
tblVehicleEF	LDA	1.6580e-003	1.3180e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.1920e-003	6.5890e-003
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.05	0.17

tblVehicleEF	LDA	2.3210e-003	2.3880e-003
tblVehicleEF	LDA	5.3200e-004	4.8900e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.5740e-003
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4390e-003	1.9350e-003
tblVehicleEF	LDA	3.1700e-003	0.04
tblVehicleEF	LDA	0.52	0.60
tblVehicleEF	LDA	0.73	1.66
tblVehicleEF	LDA	241.58	256.41
tblVehicleEF	LDA	51.83	49.92
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	1.8000e-003	1.4320e-003
tblVehicleEF	LDA	2.2330e-003	1.6850e-003
tblVehicleEF	LDA	1.6580e-003	1.3180e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	8.6510e-003	6.9570e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	2.4190e-003	2.4850e-003
tblVehicleEF	LDA	5.3000e-004	4.8400e-004
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.1920e-003	1.7790e-003
tblVehicleEF	LDA	3.5920e-003	0.04
tblVehicleEF	LDA	0.47	0.53
tblVehicleEF	LDA	0.87	1.98
tblVehicleEF	LDA	228.27	242.64
tblVehicleEF	LDA	51.83	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.16
tblVehicleEF	LDA	1.8000e-003	1.4320e-003
tblVehicleEF	LDA	2.2330e-003	1.6850e-003
tblVehicleEF	LDA	1.6580e-003	1.3180e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.0370e-003	6.4650e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2850e-003	2.3520e-003
tblVehicleEF	LDA	5.3300e-004	4.9000e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.3940e-003

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tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDT1	7.2360e-003	4.1470e-003
tblVehicleEF	LDT1	9.9520e-003	0.06
tblVehicleEF	LDT1	0.92	0.93
tblVehicleEF	LDT1	2.03	2.10
tblVehicleEF	LDT1	292.62	293.91
tblVehicleEF	LDT1	65.95	61.09
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	2.2960e-003	1.8510e-003
tblVehicleEF	LDT1	2.9420e-003	2.1800e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.13	0.27
tblVehicleEF	LDT1	2.9360e-003	2.8490e-003
tblVehicleEF	LDT1	6.9500e-004	5.9200e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.15	0.29
tblVehicleEF	LDT1	7.6070e-003	4.3890e-003

tblVehicleEF	LDT1	8.9270e-003	0.05
tblVehicleEF	LDT1	0.99	1.01
tblVehicleEF	LDT1	1.75	1.81
tblVehicleEF	LDT1	304.46	304.24
tblVehicleEF	LDT1	65.95	60.53
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.11	0.20
tblVehicleEF	LDT1	2.2960e-003	1.8510e-003
tblVehicleEF	LDT1	2.9420e-003	2.1800e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0050e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	3.0550e-003	2.9500e-003
tblVehicleEF	LDT1	6.9000e-004	5.8700e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.13	0.26
tblVehicleEF	LDT1	7.1090e-003	4.0700e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	0.89	0.90
tblVehicleEF	LDT1	2.09	2.16

tblVehicleEF	LDT1	288.25	290.09
tblVehicleEF	LDT1	65.95	61.21
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	2.2960e-003	1.8510e-003
tblVehicleEF	LDT1	2.9420e-003	2.1800e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.14	0.27
tblVehicleEF	LDT1	2.8920e-003	2.8120e-003
tblVehicleEF	LDT1	6.9600e-004	5.9300e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.15	0.30
tblVehicleEF	LDT2	4.5940e-003	2.9810e-003
tblVehicleEF	LDT2	4.8100e-003	0.06
tblVehicleEF	LDT2	0.64	0.74
tblVehicleEF	LDT2	1.11	2.45
tblVehicleEF	LDT2	329.48	312.71
tblVehicleEF	LDT2	73.66	65.44
tblVehicleEF	LDT2	0.05	0.05

tblVehicleEF	LDT2	0.08	0.22
tblVehicleEF	LDT2	1.8470e-003	1.4660e-003
tblVehicleEF	LDT2	2.3090e-003	1.6630e-003
tblVehicleEF	LDT2	1.6990e-003	1.3500e-003
tblVehicleEF	LDT2	2.1230e-003	1.5290e-003
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tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	3.2990e-003	3.0310e-003
tblVehicleEF	LDT2	7.5500e-004	6.3400e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.07	0.27
tblVehicleEF	LDT2	4.8530e-003	3.1670e-003
tblVehicleEF	LDT2	4.3330e-003	0.05
tblVehicleEF	LDT2	0.69	0.80
tblVehicleEF	LDT2	0.96	2.11
tblVehicleEF	LDT2	342.98	322.65
tblVehicleEF	LDT2	73.66	64.81
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.07	0.21
tblVehicleEF	LDT2	1.8470e-003	1.4660e-003
tblVehicleEF	LDT2	2.3090e-003	1.6630e-003

tblVehicleEF	LDT2	1.6990e-003	1.3500e-003
tblVehicleEF	LDT2	2.1230e-003	1.5290e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.23
tblVehicleEF	LDT2	3.4350e-003	3.1280e-003
tblVehicleEF	LDT2	7.5200e-004	6.2800e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	4.5070e-003	2.9220e-003
tblVehicleEF	LDT2	4.9080e-003	0.06
tblVehicleEF	LDT2	0.62	0.72
tblVehicleEF	LDT2	1.14	2.52
tblVehicleEF	LDT2	324.49	309.04
tblVehicleEF	LDT2	73.66	65.58
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.08	0.23
tblVehicleEF	LDT2	1.8470e-003	1.4660e-003
tblVehicleEF	LDT2	2.3090e-003	1.6630e-003
tblVehicleEF	LDT2	1.6990e-003	1.3500e-003
tblVehicleEF	LDT2	2.1230e-003	1.5290e-003
tblVehicleEF	LDT2	0.04	0.06

tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.2490e-003	2.9960e-003
tblVehicleEF	LDT2	7.5500e-004	6.3600e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LHD1	4.8760e-003	5.1790e-003
tblVehicleEF	LHD1	7.3850e-003	3.6570e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.42
tblVehicleEF	LHD1	2.05	0.96
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.39
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.97	0.58
tblVehicleEF	LHD1	0.88	0.30
tblVehicleEF	LHD1	8.7700e-004	8.3800e-004
tblVehicleEF	LHD1	0.01	9.8000e-003
tblVehicleEF	LHD1	9.4650e-003	6.3810e-003
tblVehicleEF	LHD1	7.7100e-004	2.2200e-004

tblVehicleEF	LHD1	8.3900e-004	8.0200e-004
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0820e-003
tblVehicleEF	LHD1	7.0900e-004	2.0400e-004
tblVehicleEF	LHD1	2.4720e-003	1.8820e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6210e-003	1.2380e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7060e-003	6.1790e-003
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tblVehicleEF	LHD1	2.4720e-003	1.8820e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6210e-003	1.2380e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8760e-003	5.1900e-003
tblVehicleEF	LHD1	7.5120e-003	3.7120e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.59	0.42
tblVehicleEF	LHD1	1.97	0.92
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.59

tblVehicleEF	LHD1	30.08	11.32
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.92	0.55
tblVehicleEF	LHD1	0.84	0.28
tblVehicleEF	LHD1	8.7700e-004	8.3800e-004
tblVehicleEF	LHD1	0.01	9.8000e-003
tblVehicleEF	LHD1	9.4650e-003	6.3810e-003
tblVehicleEF	LHD1	7.7100e-004	2.2200e-004
tblVehicleEF	LHD1	8.3900e-004	8.0200e-004
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0820e-003
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tblVehicleEF	LHD1	3.4440e-003	2.6310e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.20	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7070e-003	6.1790e-003
tblVehicleEF	LHD1	3.3800e-004	1.1200e-004
tblVehicleEF	LHD1	3.4440e-003	2.6310e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.22	0.07

tblVehicleEF	LHD1	4.8760e-003	5.1770e-003
tblVehicleEF	LHD1	7.3500e-003	3.6420e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.41
tblVehicleEF	LHD1	2.06	0.97
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.40
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.96	0.57
tblVehicleEF	LHD1	0.89	0.30
tblVehicleEF	LHD1	8.7700e-004	8.3800e-004
tblVehicleEF	LHD1	0.01	9.8000e-003
tblVehicleEF	LHD1	9.4650e-003	6.3810e-003
tblVehicleEF	LHD1	7.7100e-004	2.2200e-004
tblVehicleEF	LHD1	8.3900e-004	8.0200e-004
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
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tblVehicleEF	LHD1	7.0900e-004	2.0400e-004
tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6290e-003	1.2470e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7060e-003	6.1790e-003

tblVehicleEF	LHD1	3.4000e-004	1.1300e-004
tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6290e-003	1.2470e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.5130e-003	3.7120e-003
tblVehicleEF	LHD2	3.0250e-003	2.8570e-003
tblVehicleEF	LHD2	6.4370e-003	9.0450e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.94
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.66
tblVehicleEF	LHD2	0.47	0.21
tblVehicleEF	LHD2	1.1390e-003	1.2800e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2250e-003
tblVehicleEF	LHD2	2.6730e-003	2.6460e-003
tblVehicleEF	LHD2	7.9990e-003	9.1750e-003
tblVehicleEF	LHD2	3.6300e-004	1.1800e-004
tblVehicleEF	LHD2	9.0300e-004	1.2060e-003

tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	5.8410e-003	6.2140e-003
tblVehicleEF	LHD2	2.7900e-004	8.9000e-005
tblVehicleEF	LHD2	9.0300e-004	1.2060e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7190e-003
tblVehicleEF	LHD2	3.0530e-003	2.8800e-003
tblVehicleEF	LHD2	6.2440e-003	8.7610e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.06	0.62
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.90
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.62
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.1390e-003	1.2800e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2250e-003
tblVehicleEF	LHD2	2.6730e-003	2.6460e-003
tblVehicleEF	LHD2	7.9990e-003	9.1750e-003
tblVehicleEF	LHD2	3.6300e-004	1.1800e-004
tblVehicleEF	LHD2	1.2670e-003	1.6890e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1130e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	5.8410e-003	6.2140e-003
tblVehicleEF	LHD2	2.7900e-004	8.8000e-005
tblVehicleEF	LHD2	1.2670e-003	1.6890e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1130e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7100e-003
tblVehicleEF	LHD2	3.0170e-003	2.8500e-003
tblVehicleEF	LHD2	6.4770e-003	9.1040e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31

tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.39
tblVehicleEF	LHD2	25.96	8.95
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.65
tblVehicleEF	LHD2	0.47	0.21
tblVehicleEF	LHD2	1.1390e-003	1.2800e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2250e-003
tblVehicleEF	LHD2	2.6730e-003	2.6460e-003
tblVehicleEF	LHD2	7.9990e-003	9.1750e-003
tblVehicleEF	LHD2	3.6300e-004	1.1800e-004
tblVehicleEF	LHD2	8.9600e-004	1.2110e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	5.8410e-003	6.2140e-003
tblVehicleEF	LHD2	2.8000e-004	8.9000e-005
tblVehicleEF	LHD2	8.9600e-004	1.2110e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1400e-004

tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.95	18.16
tblVehicleEF	MCY	9.61	8.50
tblVehicleEF	MCY	178.67	214.64
tblVehicleEF	MCY	44.17	59.14
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.2470e-003	2.2320e-003
tblVehicleEF	MCY	3.4860e-003	2.9930e-003
tblVehicleEF	MCY	2.0980e-003	2.0840e-003
tblVehicleEF	MCY	3.2740e-003	2.8100e-003
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68
tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.34	2.35
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.02	1.79
tblVehicleEF	MCY	2.1510e-003	2.1240e-003
tblVehicleEF	MCY	6.5800e-004	5.8500e-004
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68
tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.92	2.93
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.20	1.95

tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.31	17.50
tblVehicleEF	MCY	8.84	7.78
tblVehicleEF	MCY	178.67	213.41
tblVehicleEF	MCY	44.17	57.38
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.2470e-003	2.2320e-003
tblVehicleEF	MCY	3.4860e-003	2.9930e-003
tblVehicleEF	MCY	2.0980e-003	2.0840e-003
tblVehicleEF	MCY	3.2740e-003	2.8100e-003
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.29	2.30
tblVehicleEF	MCY	0.56	0.50
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.1390e-003	2.1120e-003
tblVehicleEF	MCY	6.3900e-004	5.6800e-004
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.85	2.86
tblVehicleEF	MCY	0.56	0.50
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.04	18.25

tblVehicleEF	MCY	9.73	8.62
tblVehicleEF	MCY	178.67	214.83
tblVehicleEF	MCY	44.17	59.46
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.2470e-003	2.2320e-003
tblVehicleEF	MCY	3.4860e-003	2.9930e-003
tblVehicleEF	MCY	2.0980e-003	2.0840e-003
tblVehicleEF	MCY	3.2740e-003	2.8100e-003
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.35	2.36
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.1520e-003	2.1260e-003
tblVehicleEF	MCY	6.6100e-004	5.8800e-004
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.93	2.94
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.24	1.99
tblVehicleEF	MDV	8.2720e-003	3.7210e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	0.96	0.83
tblVehicleEF	MDV	1.95	2.70
tblVehicleEF	MDV	450.89	387.66
tblVehicleEF	MDV	98.57	79.61

tblVehicleEF	MDV	0.10	0.07
tblVehicleEF	MDV	0.17	0.27
tblVehicleEF	MDV	1.8710e-003	1.5460e-003
tblVehicleEF	MDV	2.2680e-003	1.7230e-003
tblVehicleEF	MDV	1.7240e-003	1.4260e-003
tblVehicleEF	MDV	2.0860e-003	1.5840e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	4.5120e-003	3.7560e-003
tblVehicleEF	MDV	1.0190e-003	7.7200e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.15	0.34
tblVehicleEF	MDV	8.7240e-003	3.9510e-003
tblVehicleEF	MDV	9.3780e-003	0.06
tblVehicleEF	MDV	1.04	0.90
tblVehicleEF	MDV	1.69	2.32
tblVehicleEF	MDV	468.83	397.99
tblVehicleEF	MDV	98.57	78.90
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.25
tblVehicleEF	MDV	1.8710e-003	1.5460e-003

tblVehicleEF	MDV	2.2680e-003	1.7230e-003
tblVehicleEF	MDV	1.7240e-003	1.4260e-003
tblVehicleEF	MDV	2.0860e-003	1.5840e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.13	0.28
tblVehicleEF	MDV	4.6930e-003	3.8560e-003
tblVehicleEF	MDV	1.0150e-003	7.6500e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	8.1180e-003	3.6470e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	0.93	0.80
tblVehicleEF	MDV	2.00	2.78
tblVehicleEF	MDV	444.26	383.84
tblVehicleEF	MDV	98.57	79.77
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.17	0.28
tblVehicleEF	MDV	1.8710e-003	1.5460e-003
tblVehicleEF	MDV	2.2680e-003	1.7230e-003
tblVehicleEF	MDV	1.7240e-003	1.4260e-003
tblVehicleEF	MDV	2.0860e-003	1.5840e-003

tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.14	0.32
tblVehicleEF	MDV	4.4460e-003	3.7190e-003
tblVehicleEF	MDV	1.0200e-003	7.7300e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MH	0.02	6.9350e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.27	0.73
tblVehicleEF	MH	4.43	1.75
tblVehicleEF	MH	1,096.02	1,403.51
tblVehicleEF	MH	56.63	16.91
tblVehicleEF	MH	1.16	1.27
tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1600e-004
tblVehicleEF	MH	3.2400e-003	3.3090e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9900e-004
tblVehicleEF	MH	0.74	0.62

tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.4300e-004	1.6700e-004
tblVehicleEF	MH	0.74	0.62
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.02	7.0670e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.30	0.74
tblVehicleEF	MH	4.20	1.66
tblVehicleEF	MH	1,096.02	1,403.53
tblVehicleEF	MH	56.63	16.76
tblVehicleEF	MH	1.08	1.19
tblVehicleEF	MH	0.65	0.22
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1600e-004
tblVehicleEF	MH	3.2400e-003	3.3090e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9900e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04

tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	9.8870e-003
tblVehicleEF	MH	0.25	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.3900e-004	1.6600e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	9.8870e-003
tblVehicleEF	MH	0.27	0.08
tblVehicleEF	MH	0.02	6.8950e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.26	0.72
tblVehicleEF	MH	4.46	1.77
tblVehicleEF	MH	1,096.02	1,403.50
tblVehicleEF	MH	56.63	16.93
tblVehicleEF	MH	1.14	1.24
tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1600e-004
tblVehicleEF	MH	3.2400e-003	3.3090e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9900e-004
tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29

tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.4400e-004	1.6800e-004
tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MHD	0.02	4.6040e-003
tblVehicleEF	MHD	2.6670e-003	1.2190e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.32	0.38
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.63	1.13
tblVehicleEF	MHD	143.49	52.64
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.92
tblVehicleEF	MHD	0.37	0.25
tblVehicleEF	MHD	0.68	0.96
tblVehicleEF	MHD	11.00	1.55
tblVehicleEF	MHD	6.9000e-005	1.7500e-004
tblVehicleEF	MHD	2.8070e-003	6.0480e-003
tblVehicleEF	MHD	6.9200e-004	1.1100e-004
tblVehicleEF	MHD	6.6000e-005	1.6700e-004
tblVehicleEF	MHD	2.6820e-003	5.7810e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004

tblVehicleEF	MHD	9.3500e-004	4.6900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.4100e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.05
tblVehicleEF	MHD	1.3800e-003	5.0100e-004
tblVehicleEF	MHD	0.01	9.5000e-003
tblVehicleEF	MHD	6.4800e-004	1.1800e-004
tblVehicleEF	MHD	9.3500e-004	4.6900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.5100e-004	3.4100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.06
tblVehicleEF	MHD	0.01	4.3670e-003
tblVehicleEF	MHD	2.6950e-003	1.2410e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.41	1.08
tblVehicleEF	MHD	151.98	52.58
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.83
tblVehicleEF	MHD	0.38	0.24
tblVehicleEF	MHD	0.65	0.90
tblVehicleEF	MHD	10.97	1.55

tblVehicleEF	MHD	5.8000e-005	1.5000e-004
tblVehicleEF	MHD	2.8070e-003	6.0480e-003
tblVehicleEF	MHD	6.9200e-004	1.1100e-004
tblVehicleEF	MHD	5.5000e-005	1.4300e-004
tblVehicleEF	MHD	2.6820e-003	5.7810e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	1.3170e-003	6.6100e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.8900e-004	4.6400e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.28	0.05
tblVehicleEF	MHD	1.4600e-003	5.0100e-004
tblVehicleEF	MHD	0.01	9.5000e-003
tblVehicleEF	MHD	6.4400e-004	1.1700e-004
tblVehicleEF	MHD	1.3170e-003	6.6100e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.8900e-004	4.6400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.30	0.06
tblVehicleEF	MHD	0.02	4.9470e-003
tblVehicleEF	MHD	2.6590e-003	1.2110e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.45	0.47
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.67	1.14

tblVehicleEF	MHD	131.74	52.73
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.94
tblVehicleEF	MHD	0.35	0.26
tblVehicleEF	MHD	0.67	0.94
tblVehicleEF	MHD	11.01	1.55
tblVehicleEF	MHD	8.4000e-005	2.1000e-004
tblVehicleEF	MHD	2.8070e-003	6.0480e-003
tblVehicleEF	MHD	6.9200e-004	1.1100e-004
tblVehicleEF	MHD	8.0000e-005	2.0100e-004
tblVehicleEF	MHD	2.6820e-003	5.7810e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	9.4200e-004	4.6200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5200e-004	3.3800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.06
tblVehicleEF	MHD	1.2700e-003	5.0200e-004
tblVehicleEF	MHD	0.01	9.5000e-003
tblVehicleEF	MHD	6.4800e-004	1.1800e-004
tblVehicleEF	MHD	9.4200e-004	4.6200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.5200e-004	3.3800e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.32	0.06

tblVehicleEF	OBUS	0.01	8.6550e-003
tblVehicleEF	OBUS	5.2770e-003	4.3820e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.56
tblVehicleEF	OBUS	0.39	0.54
tblVehicleEF	OBUS	4.82	2.26
tblVehicleEF	OBUS	76.59	78.18
tblVehicleEF	OBUS	1,203.91	1,334.33
tblVehicleEF	OBUS	69.07	19.41
tblVehicleEF	OBUS	0.15	0.30
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	1.95	0.75
tblVehicleEF	OBUS	1.4000e-005	9.9000e-005
tblVehicleEF	OBUS	2.4030e-003	6.5550e-003
tblVehicleEF	OBUS	8.9600e-004	2.0200e-004
tblVehicleEF	OBUS	1.3000e-005	9.5000e-005
tblVehicleEF	OBUS	2.2790e-003	6.2550e-003
tblVehicleEF	OBUS	8.2400e-004	1.8600e-004
tblVehicleEF	OBUS	1.3360e-003	1.7510e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4000e-004	9.5000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.30	0.11
tblVehicleEF	OBUS	7.4300e-004	7.4500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9200e-004
tblVehicleEF	OBUS	1.3360e-003	1.7510e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.4000e-004	9.5000e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	0.01	8.7320e-003
tblVehicleEF	OBUS	5.3660e-003	4.4740e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.55
tblVehicleEF	OBUS	0.39	0.55
tblVehicleEF	OBUS	4.58	2.14
tblVehicleEF	OBUS	80.14	77.32
tblVehicleEF	OBUS	1,203.91	1,334.35
tblVehicleEF	OBUS	69.07	19.21
tblVehicleEF	OBUS	0.16	0.28
tblVehicleEF	OBUS	0.52	0.92
tblVehicleEF	OBUS	1.92	0.74
tblVehicleEF	OBUS	1.2000e-005	8.8000e-005
tblVehicleEF	OBUS	2.4030e-003	6.5550e-003
tblVehicleEF	OBUS	8.9600e-004	2.0200e-004
tblVehicleEF	OBUS	1.1000e-005	8.4000e-005
tblVehicleEF	OBUS	2.2790e-003	6.2550e-003
tblVehicleEF	OBUS	8.2400e-004	1.8600e-004
tblVehicleEF	OBUS	1.8380e-003	2.3950e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0100e-003	1.2840e-003
tblVehicleEF	OBUS	0.03	0.03

tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.29	0.11
tblVehicleEF	OBUS	7.7700e-004	7.3700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7100e-004	1.9000e-004
tblVehicleEF	OBUS	1.8380e-003	2.3950e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.0100e-003	1.2840e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.32	0.12
tblVehicleEF	OBUS	0.01	8.5700e-003
tblVehicleEF	OBUS	5.2500e-003	4.3550e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.56
tblVehicleEF	OBUS	0.38	0.54
tblVehicleEF	OBUS	4.86	2.28
tblVehicleEF	OBUS	71.70	79.37
tblVehicleEF	OBUS	1,203.91	1,334.32
tblVehicleEF	OBUS	69.07	19.44
tblVehicleEF	OBUS	0.15	0.32
tblVehicleEF	OBUS	0.54	0.96
tblVehicleEF	OBUS	1.96	0.76
tblVehicleEF	OBUS	1.7000e-005	1.1500e-004
tblVehicleEF	OBUS	2.4030e-003	6.5550e-003
tblVehicleEF	OBUS	8.9600e-004	2.0200e-004
tblVehicleEF	OBUS	1.6000e-005	1.1000e-004
tblVehicleEF	OBUS	2.2790e-003	6.2550e-003

tblVehicleEF	OBUS	8.2400e-004	1.8600e-004
tblVehicleEF	OBUS	1.3380e-003	1.7730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.3000e-004	9.4400e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9600e-004	7.5600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7600e-004	1.9200e-004
tblVehicleEF	OBUS	1.3380e-003	1.7730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	7.3000e-004	9.4400e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	SBUS	0.83	0.09
tblVehicleEF	SBUS	0.02	9.1570e-003
tblVehicleEF	SBUS	0.07	8.2300e-003
tblVehicleEF	SBUS	8.49	3.34
tblVehicleEF	SBUS	0.94	0.84
tblVehicleEF	SBUS	8.61	1.12
tblVehicleEF	SBUS	1,085.60	359.37
tblVehicleEF	SBUS	1,065.54	1,076.06
tblVehicleEF	SBUS	58.07	6.66
tblVehicleEF	SBUS	7.75	3.47
tblVehicleEF	SBUS	3.55	5.09

tblVehicleEF	SBUS	11.66	0.75
tblVehicleEF	SBUS	6.9310e-003	4.4780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7000e-005
tblVehicleEF	SBUS	6.6310e-003	4.2840e-003
tblVehicleEF	SBUS	2.6550e-003	2.6190e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.1000e-005
tblVehicleEF	SBUS	3.3910e-003	1.1510e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.01	0.40
tblVehicleEF	SBUS	1.9710e-003	6.6100e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.05
tblVehicleEF	SBUS	0.01	3.4360e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.3000e-004	6.6000e-005
tblVehicleEF	SBUS	3.3910e-003	1.1510e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.46	0.57
tblVehicleEF	SBUS	1.9710e-003	6.6100e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.50	0.05
tblVehicleEF	SBUS	0.83	0.09
tblVehicleEF	SBUS	0.02	9.2670e-003
tblVehicleEF	SBUS	0.06	7.3960e-003

tblVehicleEF	SBUS	8.40	3.30
tblVehicleEF	SBUS	0.95	0.85
tblVehicleEF	SBUS	7.12	0.92
tblVehicleEF	SBUS	1,133.08	368.54
tblVehicleEF	SBUS	1,065.54	1,076.08
tblVehicleEF	SBUS	58.07	6.33
tblVehicleEF	SBUS	8.00	3.55
tblVehicleEF	SBUS	3.35	4.81
tblVehicleEF	SBUS	11.63	0.75
tblVehicleEF	SBUS	5.8420e-003	3.7810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7000e-005
tblVehicleEF	SBUS	5.5900e-003	3.6170e-003
tblVehicleEF	SBUS	2.6550e-003	2.6190e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.1000e-005
tblVehicleEF	SBUS	4.6620e-003	1.5800e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.01	0.40
tblVehicleEF	SBUS	2.6790e-003	8.9500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.5220e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.0500e-004	6.3000e-005
tblVehicleEF	SBUS	4.6620e-003	1.5800e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.46	0.57
tblVehicleEF	SBUS	2.6790e-003	8.9500e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.45	0.05
tblVehicleEF	SBUS	0.83	0.09
tblVehicleEF	SBUS	0.02	9.1270e-003
tblVehicleEF	SBUS	0.07	8.3500e-003
tblVehicleEF	SBUS	8.63	3.39
tblVehicleEF	SBUS	0.93	0.83
tblVehicleEF	SBUS	8.75	1.13
tblVehicleEF	SBUS	1,020.03	346.72
tblVehicleEF	SBUS	1,065.54	1,076.06
tblVehicleEF	SBUS	58.07	6.69
tblVehicleEF	SBUS	7.41	3.35
tblVehicleEF	SBUS	3.49	5.00
tblVehicleEF	SBUS	11.67	0.75
tblVehicleEF	SBUS	8.4330e-003	5.4400e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7000e-005
tblVehicleEF	SBUS	8.0680e-003	5.2050e-003
tblVehicleEF	SBUS	2.6550e-003	2.6190e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.1000e-005
tblVehicleEF	SBUS	3.3080e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.01	0.40
tblVehicleEF	SBUS	1.9200e-003	6.4200e-004

tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.05
tblVehicleEF	SBUS	0.01	3.3160e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.3200e-004	6.6000e-005
tblVehicleEF	SBUS	3.3080e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.47	0.57
tblVehicleEF	SBUS	1.9200e-003	6.4200e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.51	0.05
tblVehicleEF	UBUS	1.60	1.2910e-003
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.75	0.07
tblVehicleEF	UBUS	12.30	1.81
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.36
tblVehicleEF	UBUS	3.61	0.05
tblVehicleEF	UBUS	13.00	0.18
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2580e-003
tblVehicleEF	UBUS	0.03	3.6000e-004
tblVehicleEF	UBUS	1.3330e-003	1.7000e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004
tblVehicleEF	UBUS	0.03	3.3100e-004
tblVehicleEF	UBUS	1.2250e-003	1.5700e-004

tblVehicleEF	UBUS	5.7880e-003	1.1460e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3800e-004
tblVehicleEF	UBUS	0.41	4.2710e-003
tblVehicleEF	UBUS	0.03	2.7280e-003
tblVehicleEF	UBUS	0.94	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8190e-003
tblVehicleEF	UBUS	1.6040e-003	2.0100e-004
tblVehicleEF	UBUS	5.7880e-003	1.1460e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3800e-004
tblVehicleEF	UBUS	2.05	6.2320e-003
tblVehicleEF	UBUS	0.03	2.7280e-003
tblVehicleEF	UBUS	1.03	0.12
tblVehicleEF	UBUS	1.60	1.3190e-003
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	7.80	0.07
tblVehicleEF	UBUS	10.86	1.61
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.00
tblVehicleEF	UBUS	3.38	0.04
tblVehicleEF	UBUS	12.93	0.17
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2580e-003
tblVehicleEF	UBUS	0.03	3.6000e-004
tblVehicleEF	UBUS	1.3330e-003	1.7000e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004
tblVehicleEF	UBUS	0.03	3.3100e-004

tblVehicleEF	UBUS	1.2250e-003	1.5700e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0200e-003
tblVehicleEF	UBUS	0.41	4.3520e-003
tblVehicleEF	UBUS	0.03	2.4620e-003
tblVehicleEF	UBUS	0.87	0.10
tblVehicleEF	UBUS	8.5530e-003	3.8190e-003
tblVehicleEF	UBUS	1.5790e-003	1.9800e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0200e-003
tblVehicleEF	UBUS	2.06	6.3510e-003
tblVehicleEF	UBUS	0.03	2.4620e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	1.60	1.2850e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	7.74	0.06
tblVehicleEF	UBUS	12.55	1.85
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.42
tblVehicleEF	UBUS	3.54	0.05
tblVehicleEF	UBUS	13.02	0.18
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2580e-003
tblVehicleEF	UBUS	0.03	3.6000e-004
tblVehicleEF	UBUS	1.3330e-003	1.7000e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004

tblVehicleEF	UBUS	0.03	3.3100e-004
tblVehicleEF	UBUS	1.2250e-003	1.5700e-004
tblVehicleEF	UBUS	6.4170e-003	1.1580e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.7120e-003	7.1600e-004
tblVehicleEF	UBUS	0.40	4.2510e-003
tblVehicleEF	UBUS	0.04	3.3320e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8190e-003
tblVehicleEF	UBUS	1.6080e-003	2.0200e-004
tblVehicleEF	UBUS	6.4170e-003	1.1580e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.7120e-003	7.1600e-004
tblVehicleEF	UBUS	2.05	6.2030e-003
tblVehicleEF	UBUS	0.04	3.3320e-003
tblVehicleEF	UBUS	1.05	0.12
tblVehicleTrips	CC_TL	8.40	5.94
tblVehicleTrips	CNW_TL	6.90	5.94
tblVehicleTrips	CW_TL	16.60	5.94
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	HO_TL	8.70	5.94
tblVehicleTrips	HS_TL	5.90	5.94
tblVehicleTrips	HW_TL	14.70	5.94
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	6.39	3.09

tblVehicleTrips	ST_TR	49.97	29.02
tblVehicleTrips	SU_TR	5.86	2.57
tblVehicleTrips	SU_TR	25.24	13.35
tblVehicleTrips	WD_TR	6.65	3.42
tblVehicleTrips	WD_TR	42.70	23.80
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	27,364,690.76	37,980,278.00
tblWater	IndoorWaterUseRate	921,462.17	0.00
tblWater	OutdoorWaterUseRate	17,251,652.87	155,398.00
tblWater	OutdoorWaterUseRate	564,767.13	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	21.00	0.00
tblWoodstoves	NumberNoncatalytic	21.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.0278	0.4988	34.7014	2.4700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	189.5004	189.5004	0.0624	2.3300e-003	191.7553
Energy	0.1389	1.1871	0.5079	7.5700e-003		0.0960	0.0960		0.0960	0.0960		1,514.9542	1,514.9542	0.0290	0.0278	1,523.9568
Mobile	2.3951	2.5470	25.2525	0.0666	8.1446	0.0457	8.1903	2.1638	0.0423	2.2060		6,874.9008	6,874.9008	0.2893		6,882.1336
Total	**14.5618**	**4.2330**	**60.4619**	**0.0766**	**8.1446**	**0.3418**	**8.4863**	**2.1638**	**0.3383**	**2.5021**	**0.0000**	**8,579.3554**	**8,579.3554**	**0.3808**	**0.0301**	**8,597.8457**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.0278	0.4988	34.7014	2.4700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	189.5004	189.5004	0.0624	2.3300e-003	191.7553
Energy	0.1389	1.1871	0.5079	7.5700e-003		0.0960	0.0960		0.0960	0.0960		1,514.9542	1,514.9542	0.0290	0.0278	1,523.9568
Mobile	2.3951	2.5470	25.2525	0.0666	8.1446	0.0457	8.1903	2.1638	0.0423	2.2060		6,874.9008	6,874.9008	0.2893		6,882.1336
Total	**14.5618**	**4.2330**	**60.4619**	**0.0766**	**8.1446**	**0.3418**	**8.4863**	**2.1638**	**0.3383**	**2.5021**	**0.0000**	**8,579.3554**	**8,579.3554**	**0.3808**	**0.0301**	**8,597.8457**

	ROG	NOx	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**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3951	2.5470	25.2525	0.0666	8.1446	0.0457	8.1903	2.1638	0.0423	2.2060		6,874.9008	6,874.9008	0.2893		6,882.1336
Unmitigated	2.3951	2.5470	25.2525	0.0666	8.1446	0.0457	8.1903	2.1638	0.0423	2.2060		6,874.9008	6,874.9008	0.2893		6,882.1336

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,436.40	1,297.80	1079.40	2,952,646	2,952,646
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	296.07	361.01	166.07	620,059	620,059
Total	1,732.47	1,658.81	1,245.47	3,572,705	3,572,705

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
Apartments Mid Rise	5.94	5.94	5.94	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	5.94	5.94	5.94	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.666486	0.050589	0.246793	0.020000	0.002207	0.000876	0.003987	0.002706	0.000000	0.000000	0.006133	0.000091	0.000133
Enclosed Parking with Elevator	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Other Non-Asphalt Surfaces	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Regional Shopping Center	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1389	1.1871	0.5079	7.5700e-003		0.0960	0.0960		0.0960	0.0960		1,514.9542	1,514.9542	0.0290	0.0278	1,523.9568
NaturalGas Unmitigated	0.1389	1.1871	0.5079	7.5700e-003		0.0960	0.0960		0.0960	0.0960		1,514.9542	1,514.9542	0.0290	0.0278	1,523.9568

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	12809.3	0.1381	1.1805	0.5023	7.5300e-003		0.0954	0.0954		0.0954	0.0954		1,506.9762	1,506.9762	0.0289	0.0276	1,515.9315
Enclosed Parking with Elevator	0	0.0000	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
Regional Shopping Center	67.8127	7.3000e-004	6.6500e-003	5.5800e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9780	7.9780	1.5000e-004	1.5000e-004	8.0254
Total		**0.1389**	**1.1871**	**0.5079**	**7.5700e-003**		**0.0960**	**0.0960**		**0.0960**	**0.0960**		**1,514.9542**	**1,514.9542**	**0.0290**	**0.0278**	**1,523.9568**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	12.8093	0.1381	1.1805	0.5023	7.5300e-003		0.0954	0.0954		0.0954	0.0954		1,506.9762	1,506.9762	0.0289	0.0276	1,515.9315
Enclosed Parking with Elevator	0	0.0000	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
Regional Shopping Center	0.0678127	7.3000e-004	6.6500e-003	5.5800e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9780	7.9780	1.5000e-004	1.5000e-004	8.0254
Total		**0.1389**	**1.1871**	**0.5079**	**7.5700e-003**		**0.0960**	**0.0960**		**0.0960**	**0.0960**		**1,514.9542**	**1,514.9542**	**0.0290**	**0.0278**	**1,523.9568**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.0278	0.4988	34.7014	2.4700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	189.5004	189.5004	0.0624	2.3300e-003	191.7553
Unmitigated	12.0278	0.4988	34.7014	2.4700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	189.5004	189.5004	0.0624	2.3300e-003	191.7553

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6584					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0117	0.0995	0.0424	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003	0.0000	127.0588	127.0588	2.4400e-003	2.3300e-003	127.8139
Landscaping	1.0436	0.3993	34.6591	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4416	62.4416	0.0600		63.9415
Total	**12.0278**	**0.4988**	**34.7014**	**2.4700e-003**		**0.2001**	**0.2001**		**0.2001**	**0.2001**	**0.0000**	**189.5004**	**189.5004**	**0.0624**	**2.3300e-003**	**191.7553**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6584					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0117	0.0995	0.0424	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003	0.0000	127.0588	127.0588	2.4400e-003	2.3300e-003	127.8139
Landscaping	1.0436	0.3993	34.6591	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4416	62.4416	0.0600		63.9415
Total	**12.0278**	**0.4988**	**34.7014**	**2.4700e-003**		**0.2001**	**0.2001**		**0.2001**	**0.2001**	**0.0000**	**189.5004**	**189.5004**	**0.0624**	**2.3300e-003**	**191.7553**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

The Hub Fullerton Operations - Orange County, Annual

The Hub Fullerton Operations

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	145.95	1000sqft	0.44	145,952.00	0
Other Non-Asphalt Surfaces	68.46	1000sqft	1.57	68,464.00	0
Apartments Mid Rise	420.00	Dwelling Unit	1.21	471,522.00	1201
Regional Shopping Center	12.44	1000sqft	0.29	12,438.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - based on info from applicant

Construction Phase -

Vehicle Trips - based on info from F&P

Vehicle Emission Factors - EMFAC 2017 adjustment, see assumptions file for adjustments

Woodstoves - assumes 3 barbecues and 3 firepits

Area Coating - based on info provided by applicant, see assumptions file

Energy Use - adjustment to energy use based on NORESCO study, see assumptions file for calcs

Water And Wastewater - based on sewer study and MAWA residential worksheet

Water Mitigation -

Fleet Mix - see fleet mix adjustment in assumptions file

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Residential_Exterior	50	100
tblAreaCoating	Area_EF_Residential_Interior	50	100
tblAreaCoating	Area_Nonresidential_Exterior	6219	36799
tblAreaCoating	Area_Parking	12865	8757
tblAreaCoating	Area_Residential_Exterior	318277	15914
tblEnergyUse	T24E	179.76	176.16
tblEnergyUse	T24E	3.92	3.50
tblEnergyUse	T24E	2.93	2.62
tblEnergyUse	T24NG	5,911.46	5,615.89
tblEnergyUse	T24NG	0.95	0.94
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	357.00	6.00
tblFireplaces	NumberNoFireplace	42.00	414.00
tblFireplaces	NumberWood	21.00	0.00
tblFleetMix	HHD	0.02	2.7060e-003
tblFleetMix	LDA	0.57	0.67
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.01	2.2070e-003
tblFleetMix	LHD2	5.7730e-003	8.7600e-004

tblFleetMix	MCY	4.9530e-003	6.1330e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	8.7700e-004	1.3300e-004
tblFleetMix	MHD	0.03	3.9870e-003
tblFleetMix	OBUS	1.7920e-003	0.00
tblFleetMix	SBUS	6.0200e-004	9.1000e-005
tblFleetMix	UBUS	1.5090e-003	0.00
tblLandUse	LandUseSquareFeet	145,950.00	145,952.00
tblLandUse	LandUseSquareFeet	68,460.00	68,464.00
tblLandUse	LandUseSquareFeet	420,000.00	471,522.00
tblLandUse	LandUseSquareFeet	12,440.00	12,438.00
tblLandUse	LotAcreage	3.35	0.44
tblLandUse	LotAcreage	11.05	1.21
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
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tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	12.98	5.26
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tblVehicleEF	HHD	0.03	0.04

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tblVehicleEF	HHD	0.09	4.0000e-006
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tblVehicleEF	HHD	8.6690e-003	8.7620e-003
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tblVehicleEF	HHD	0.03	0.03
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tblVehicleEF	HHD	8.6690e-003	8.4790e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0000e-006
tblVehicleEF	HHD	1.1300e-004	4.0000e-006
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tblVehicleEF	HHD	0.08	0.02
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tblVehicleEF	LDA	0.05	0.15
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tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08

tblVehicleEF	LDA	0.03	0.04
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tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.3210e-003	2.3880e-003
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tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.5740e-003
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4390e-003	1.9350e-003
tblVehicleEF	LDA	3.1700e-003	0.04
tblVehicleEF	LDA	0.52	0.60
tblVehicleEF	LDA	0.73	1.66
tblVehicleEF	LDA	241.58	256.41
tblVehicleEF	LDA	51.83	49.92
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	1.8000e-003	1.4320e-003
tblVehicleEF	LDA	2.2330e-003	1.6850e-003
tblVehicleEF	LDA	1.6580e-003	1.3180e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	8.6510e-003	6.9570e-003
tblVehicleEF	LDA	0.03	0.02

tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	2.4190e-003	2.4850e-003
tblVehicleEF	LDA	5.3000e-004	4.8400e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.1920e-003	1.7790e-003
tblVehicleEF	LDA	3.5920e-003	0.04
tblVehicleEF	LDA	0.47	0.53
tblVehicleEF	LDA	0.87	1.98
tblVehicleEF	LDA	228.27	242.64
tblVehicleEF	LDA	51.83	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.16
tblVehicleEF	LDA	1.8000e-003	1.4320e-003
tblVehicleEF	LDA	2.2330e-003	1.6850e-003
tblVehicleEF	LDA	1.6580e-003	1.3180e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.0370e-003	6.4650e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2850e-003	2.3520e-003
tblVehicleEF	LDA	5.3300e-004	4.9000e-004

tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.3940e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDT1	7.2360e-003	4.1470e-003
tblVehicleEF	LDT1	9.9520e-003	0.06
tblVehicleEF	LDT1	0.92	0.93
tblVehicleEF	LDT1	2.03	2.10
tblVehicleEF	LDT1	292.62	293.91
tblVehicleEF	LDT1	65.95	61.09
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	2.2960e-003	1.8510e-003
tblVehicleEF	LDT1	2.9420e-003	2.1800e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.13	0.27
tblVehicleEF	LDT1	2.9360e-003	2.8490e-003
tblVehicleEF	LDT1	6.9500e-004	5.9200e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.15	0.29
tblVehicleEF	LDT1	7.6070e-003	4.3890e-003
tblVehicleEF	LDT1	8.9270e-003	0.05
tblVehicleEF	LDT1	0.99	1.01
tblVehicleEF	LDT1	1.75	1.81
tblVehicleEF	LDT1	304.46	304.24
tblVehicleEF	LDT1	65.95	60.53
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.11	0.20
tblVehicleEF	LDT1	2.2960e-003	1.8510e-003
tblVehicleEF	LDT1	2.9420e-003	2.1800e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0050e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	3.0550e-003	2.9500e-003
tblVehicleEF	LDT1	6.9000e-004	5.8700e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.13	0.26

tblVehicleEF	LDT1	7.1090e-003	4.0700e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	0.89	0.90
tblVehicleEF	LDT1	2.09	2.16
tblVehicleEF	LDT1	288.25	290.09
tblVehicleEF	LDT1	65.95	61.21
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	2.2960e-003	1.8510e-003
tblVehicleEF	LDT1	2.9420e-003	2.1800e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0050e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.14	0.27
tblVehicleEF	LDT1	2.8920e-003	2.8120e-003
tblVehicleEF	LDT1	6.9600e-004	5.9300e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.15	0.30
tblVehicleEF	LDT2	4.5940e-003	2.9810e-003
tblVehicleEF	LDT2	4.8100e-003	0.06
tblVehicleEF	LDT2	0.64	0.74

tblVehicleEF	LDT2	1.11	2.45
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tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.08	0.22
tblVehicleEF	LDT2	1.8470e-003	1.4660e-003
tblVehicleEF	LDT2	2.3090e-003	1.6630e-003
tblVehicleEF	LDT2	1.6990e-003	1.3500e-003
tblVehicleEF	LDT2	2.1230e-003	1.5290e-003
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tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	3.2990e-003	3.0310e-003
tblVehicleEF	LDT2	7.5500e-004	6.3400e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.07	0.27
tblVehicleEF	LDT2	4.8530e-003	3.1670e-003
tblVehicleEF	LDT2	4.3330e-003	0.05
tblVehicleEF	LDT2	0.69	0.80
tblVehicleEF	LDT2	0.96	2.11
tblVehicleEF	LDT2	342.98	322.65
tblVehicleEF	LDT2	73.66	64.81

tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.07	0.21
tblVehicleEF	LDT2	1.8470e-003	1.4660e-003
tblVehicleEF	LDT2	2.3090e-003	1.6630e-003
tblVehicleEF	LDT2	1.6990e-003	1.3500e-003
tblVehicleEF	LDT2	2.1230e-003	1.5290e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.23
tblVehicleEF	LDT2	3.4350e-003	3.1280e-003
tblVehicleEF	LDT2	7.5200e-004	6.2800e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	4.5070e-003	2.9220e-003
tblVehicleEF	LDT2	4.9080e-003	0.06
tblVehicleEF	LDT2	0.62	0.72
tblVehicleEF	LDT2	1.14	2.52
tblVehicleEF	LDT2	324.49	309.04
tblVehicleEF	LDT2	73.66	65.58
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.08	0.23
tblVehicleEF	LDT2	1.8470e-003	1.4660e-003

tblVehicleEF	LDT2	2.3090e-003	1.6630e-003
tblVehicleEF	LDT2	1.6990e-003	1.3500e-003
tblVehicleEF	LDT2	2.1230e-003	1.5290e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.2490e-003	2.9960e-003
tblVehicleEF	LDT2	7.5500e-004	6.3600e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LHD1	4.8760e-003	5.1790e-003
tblVehicleEF	LHD1	7.3850e-003	3.6570e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.42
tblVehicleEF	LHD1	2.05	0.96
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.39
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.97	0.58
tblVehicleEF	LHD1	0.88	0.30

tblVehicleEF	LHD1	8.7700e-004	8.3800e-004
tblVehicleEF	LHD1	0.01	9.8000e-003
tblVehicleEF	LHD1	9.4650e-003	6.3810e-003
tblVehicleEF	LHD1	7.7100e-004	2.2200e-004
tblVehicleEF	LHD1	8.3900e-004	8.0200e-004
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0820e-003
tblVehicleEF	LHD1	7.0900e-004	2.0400e-004
tblVehicleEF	LHD1	2.4720e-003	1.8820e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6210e-003	1.2380e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7060e-003	6.1790e-003
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tblVehicleEF	LHD1	2.4720e-003	1.8820e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6210e-003	1.2380e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8760e-003	5.1900e-003
tblVehicleEF	LHD1	7.5120e-003	3.7120e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18

tblVehicleEF	LHD1	0.59	0.42
tblVehicleEF	LHD1	1.97	0.92
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.59
tblVehicleEF	LHD1	30.08	11.32
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.92	0.55
tblVehicleEF	LHD1	0.84	0.28
tblVehicleEF	LHD1	8.7700e-004	8.3800e-004
tblVehicleEF	LHD1	0.01	9.8000e-003
tblVehicleEF	LHD1	9.4650e-003	6.3810e-003
tblVehicleEF	LHD1	7.7100e-004	2.2200e-004
tblVehicleEF	LHD1	8.3900e-004	8.0200e-004
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0820e-003
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tblVehicleEF	LHD1	3.4440e-003	2.6310e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.20	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7070e-003	6.1790e-003
tblVehicleEF	LHD1	3.3800e-004	1.1200e-004
tblVehicleEF	LHD1	3.4440e-003	2.6310e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	4.8760e-003	5.1770e-003
tblVehicleEF	LHD1	7.3500e-003	3.6420e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.41
tblVehicleEF	LHD1	2.06	0.97
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.40
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.96	0.57
tblVehicleEF	LHD1	0.89	0.30
tblVehicleEF	LHD1	8.7700e-004	8.3800e-004
tblVehicleEF	LHD1	0.01	9.8000e-003
tblVehicleEF	LHD1	9.4650e-003	6.3810e-003
tblVehicleEF	LHD1	7.7100e-004	2.2200e-004
tblVehicleEF	LHD1	8.3900e-004	8.0200e-004
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
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tblVehicleEF	LHD1	7.0900e-004	2.0400e-004
tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6290e-003	1.2470e-003
tblVehicleEF	LHD1	0.05	0.04

tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7060e-003	6.1790e-003
tblVehicleEF	LHD1	3.4000e-004	1.1300e-004
tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6290e-003	1.2470e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.5130e-003	3.7120e-003
tblVehicleEF	LHD2	3.0250e-003	2.8570e-003
tblVehicleEF	LHD2	6.4370e-003	9.0450e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.94
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.66
tblVehicleEF	LHD2	0.47	0.21
tblVehicleEF	LHD2	1.1390e-003	1.2800e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2250e-003

tblVehicleEF	LHD2	2.6730e-003	2.6460e-003
tblVehicleEF	LHD2	7.9990e-003	9.1750e-003
tblVehicleEF	LHD2	3.6300e-004	1.1800e-004
tblVehicleEF	LHD2	9.0300e-004	1.2060e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	5.8410e-003	6.2140e-003
tblVehicleEF	LHD2	2.7900e-004	8.9000e-005
tblVehicleEF	LHD2	9.0300e-004	1.2060e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7190e-003
tblVehicleEF	LHD2	3.0530e-003	2.8800e-003
tblVehicleEF	LHD2	6.2440e-003	8.7610e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.06	0.62
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.90

tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.62
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.1390e-003	1.2800e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2250e-003
tblVehicleEF	LHD2	2.6730e-003	2.6460e-003
tblVehicleEF	LHD2	7.9990e-003	9.1750e-003
tblVehicleEF	LHD2	3.6300e-004	1.1800e-004
tblVehicleEF	LHD2	1.2670e-003	1.6890e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1130e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	5.8410e-003	6.2140e-003
tblVehicleEF	LHD2	2.7900e-004	8.8000e-005
tblVehicleEF	LHD2	1.2670e-003	1.6890e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1130e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7100e-003

tblVehicleEF	LHD2	3.0170e-003	2.8500e-003
tblVehicleEF	LHD2	6.4770e-003	9.1040e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.39
tblVehicleEF	LHD2	25.96	8.95
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.65
tblVehicleEF	LHD2	0.47	0.21
tblVehicleEF	LHD2	1.1390e-003	1.2800e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2250e-003
tblVehicleEF	LHD2	2.6730e-003	2.6460e-003
tblVehicleEF	LHD2	7.9990e-003	9.1750e-003
tblVehicleEF	LHD2	3.6300e-004	1.1800e-004
tblVehicleEF	LHD2	8.9600e-004	1.2110e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	5.8410e-003	6.2140e-003
tblVehicleEF	LHD2	2.8000e-004	8.9000e-005

tblVehicleEF	LHD2	8.9600e-004	1.2110e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1400e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.95	18.16
tblVehicleEF	MCY	9.61	8.50
tblVehicleEF	MCY	178.67	214.64
tblVehicleEF	MCY	44.17	59.14
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.2470e-003	2.2320e-003
tblVehicleEF	MCY	3.4860e-003	2.9930e-003
tblVehicleEF	MCY	2.0980e-003	2.0840e-003
tblVehicleEF	MCY	3.2740e-003	2.8100e-003
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68
tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.34	2.35
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.02	1.79
tblVehicleEF	MCY	2.1510e-003	2.1240e-003
tblVehicleEF	MCY	6.5800e-004	5.8500e-004
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68

tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.92	2.93
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.20	1.95
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.31	17.50
tblVehicleEF	MCY	8.84	7.78
tblVehicleEF	MCY	178.67	213.41
tblVehicleEF	MCY	44.17	57.38
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.2470e-003	2.2320e-003
tblVehicleEF	MCY	3.4860e-003	2.9930e-003
tblVehicleEF	MCY	2.0980e-003	2.0840e-003
tblVehicleEF	MCY	3.2740e-003	2.8100e-003
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.29	2.30
tblVehicleEF	MCY	0.56	0.50
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.1390e-003	2.1120e-003
tblVehicleEF	MCY	6.3900e-004	5.6800e-004
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.85	2.86
tblVehicleEF	MCY	0.56	0.50

tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.04	18.25
tblVehicleEF	MCY	9.73	8.62
tblVehicleEF	MCY	178.67	214.83
tblVehicleEF	MCY	44.17	59.46
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.2470e-003	2.2320e-003
tblVehicleEF	MCY	3.4860e-003	2.9930e-003
tblVehicleEF	MCY	2.0980e-003	2.0840e-003
tblVehicleEF	MCY	3.2740e-003	2.8100e-003
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.35	2.36
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.1520e-003	2.1260e-003
tblVehicleEF	MCY	6.6100e-004	5.8800e-004
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.93	2.94
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.24	1.99
tblVehicleEF	MDV	8.2720e-003	3.7210e-003
tblVehicleEF	MDV	0.01	0.07

tblVehicleEF	MDV	0.96	0.83
tblVehicleEF	MDV	1.95	2.70
tblVehicleEF	MDV	450.89	387.66
tblVehicleEF	MDV	98.57	79.61
tblVehicleEF	MDV	0.10	0.07
tblVehicleEF	MDV	0.17	0.27
tblVehicleEF	MDV	1.8710e-003	1.5460e-003
tblVehicleEF	MDV	2.2680e-003	1.7230e-003
tblVehicleEF	MDV	1.7240e-003	1.4260e-003
tblVehicleEF	MDV	2.0860e-003	1.5840e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	4.5120e-003	3.7560e-003
tblVehicleEF	MDV	1.0190e-003	7.7200e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.15	0.34
tblVehicleEF	MDV	8.7240e-003	3.9510e-003
tblVehicleEF	MDV	9.3780e-003	0.06
tblVehicleEF	MDV	1.04	0.90
tblVehicleEF	MDV	1.69	2.32
tblVehicleEF	MDV	468.83	397.99

tblVehicleEF	MDV	98.57	78.90
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.25
tblVehicleEF	MDV	1.8710e-003	1.5460e-003
tblVehicleEF	MDV	2.2680e-003	1.7230e-003
tblVehicleEF	MDV	1.7240e-003	1.4260e-003
tblVehicleEF	MDV	2.0860e-003	1.5840e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.13	0.28
tblVehicleEF	MDV	4.6930e-003	3.8560e-003
tblVehicleEF	MDV	1.0150e-003	7.6500e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	8.1180e-003	3.6470e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	0.93	0.80
tblVehicleEF	MDV	2.00	2.78
tblVehicleEF	MDV	444.26	383.84
tblVehicleEF	MDV	98.57	79.77
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.17	0.28

tblVehicleEF	MDV	1.8710e-003	1.5460e-003
tblVehicleEF	MDV	2.2680e-003	1.7230e-003
tblVehicleEF	MDV	1.7240e-003	1.4260e-003
tblVehicleEF	MDV	2.0860e-003	1.5840e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.14	0.32
tblVehicleEF	MDV	4.4460e-003	3.7190e-003
tblVehicleEF	MDV	1.0200e-003	7.7300e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MH	0.02	6.9350e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.27	0.73
tblVehicleEF	MH	4.43	1.75
tblVehicleEF	MH	1,096.02	1,403.51
tblVehicleEF	MH	56.63	16.91
tblVehicleEF	MH	1.16	1.27
tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1600e-004

tblVehicleEF	MH	3.2400e-003	3.3090e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9900e-004
tblVehicleEF	MH	0.74	0.62
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.4300e-004	1.6700e-004
tblVehicleEF	MH	0.74	0.62
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.02	7.0670e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.30	0.74
tblVehicleEF	MH	4.20	1.66
tblVehicleEF	MH	1,096.02	1,403.53
tblVehicleEF	MH	56.63	16.76
tblVehicleEF	MH	1.08	1.19
tblVehicleEF	MH	0.65	0.22
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1600e-004
tblVehicleEF	MH	3.2400e-003	3.3090e-003

tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9900e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	9.8870e-003
tblVehicleEF	MH	0.25	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.3900e-004	1.6600e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	9.8870e-003
tblVehicleEF	MH	0.27	0.08
tblVehicleEF	MH	0.02	6.8950e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.26	0.72
tblVehicleEF	MH	4.46	1.77
tblVehicleEF	MH	1,096.02	1,403.50
tblVehicleEF	MH	56.63	16.93
tblVehicleEF	MH	1.14	1.24
tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1600e-004
tblVehicleEF	MH	3.2400e-003	3.3090e-003
tblVehicleEF	MH	0.02	0.03

tblVehicleEF	MH	8.2900e-004	1.9900e-004
tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29
tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.4400e-004	1.6800e-004
tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MHD	0.02	4.6040e-003
tblVehicleEF	MHD	2.6670e-003	1.2190e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.32	0.38
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.63	1.13
tblVehicleEF	MHD	143.49	52.64
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.92
tblVehicleEF	MHD	0.37	0.25
tblVehicleEF	MHD	0.68	0.96
tblVehicleEF	MHD	11.00	1.55
tblVehicleEF	MHD	6.9000e-005	1.7500e-004
tblVehicleEF	MHD	2.8070e-003	6.0480e-003

tblVehicleEF	MHD	6.9200e-004	1.1100e-004
tblVehicleEF	MHD	6.6000e-005	1.6700e-004
tblVehicleEF	MHD	2.6820e-003	5.7810e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	9.3500e-004	4.6900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.4100e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.05
tblVehicleEF	MHD	1.3800e-003	5.0100e-004
tblVehicleEF	MHD	0.01	9.5000e-003
tblVehicleEF	MHD	6.4800e-004	1.1800e-004
tblVehicleEF	MHD	9.3500e-004	4.6900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.5100e-004	3.4100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.06
tblVehicleEF	MHD	0.01	4.3670e-003
tblVehicleEF	MHD	2.6950e-003	1.2410e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.41	1.08
tblVehicleEF	MHD	151.98	52.58
tblVehicleEF	MHD	1,123.36	993.27

tblVehicleEF	MHD	56.66	11.83
tblVehicleEF	MHD	0.38	0.24
tblVehicleEF	MHD	0.65	0.90
tblVehicleEF	MHD	10.97	1.55
tblVehicleEF	MHD	5.8000e-005	1.5000e-004
tblVehicleEF	MHD	2.8070e-003	6.0480e-003
tblVehicleEF	MHD	6.9200e-004	1.1100e-004
tblVehicleEF	MHD	5.5000e-005	1.4300e-004
tblVehicleEF	MHD	2.6820e-003	5.7810e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	1.3170e-003	6.6100e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.8900e-004	4.6400e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.28	0.05
tblVehicleEF	MHD	1.4600e-003	5.0100e-004
tblVehicleEF	MHD	0.01	9.5000e-003
tblVehicleEF	MHD	6.4400e-004	1.1700e-004
tblVehicleEF	MHD	1.3170e-003	6.6100e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.8900e-004	4.6400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.30	0.06
tblVehicleEF	MHD	0.02	4.9470e-003
tblVehicleEF	MHD	2.6590e-003	1.2110e-003

tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.45	0.47
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.67	1.14
tblVehicleEF	MHD	131.74	52.73
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.94
tblVehicleEF	MHD	0.35	0.26
tblVehicleEF	MHD	0.67	0.94
tblVehicleEF	MHD	11.01	1.55
tblVehicleEF	MHD	8.4000e-005	2.1000e-004
tblVehicleEF	MHD	2.8070e-003	6.0480e-003
tblVehicleEF	MHD	6.9200e-004	1.1100e-004
tblVehicleEF	MHD	8.0000e-005	2.0100e-004
tblVehicleEF	MHD	2.6820e-003	5.7810e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	9.4200e-004	4.6200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5200e-004	3.3800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.06
tblVehicleEF	MHD	1.2700e-003	5.0200e-004
tblVehicleEF	MHD	0.01	9.5000e-003
tblVehicleEF	MHD	6.4800e-004	1.1800e-004
tblVehicleEF	MHD	9.4200e-004	4.6200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	6.5200e-004	3.3800e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.32	0.06
tblVehicleEF	OBUS	0.01	8.6550e-003
tblVehicleEF	OBUS	5.2770e-003	4.3820e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.56
tblVehicleEF	OBUS	0.39	0.54
tblVehicleEF	OBUS	4.82	2.26
tblVehicleEF	OBUS	76.59	78.18
tblVehicleEF	OBUS	1,203.91	1,334.33
tblVehicleEF	OBUS	69.07	19.41
tblVehicleEF	OBUS	0.15	0.30
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	1.95	0.75
tblVehicleEF	OBUS	1.4000e-005	9.9000e-005
tblVehicleEF	OBUS	2.4030e-003	6.5550e-003
tblVehicleEF	OBUS	8.9600e-004	2.0200e-004
tblVehicleEF	OBUS	1.3000e-005	9.5000e-005
tblVehicleEF	OBUS	2.2790e-003	6.2550e-003
tblVehicleEF	OBUS	8.2400e-004	1.8600e-004
tblVehicleEF	OBUS	1.3360e-003	1.7510e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4000e-004	9.5000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.30	0.11

tblVehicleEF	OBUS	7.4300e-004	7.4500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9200e-004
tblVehicleEF	OBUS	1.3360e-003	1.7510e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.4000e-004	9.5000e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	0.01	8.7320e-003
tblVehicleEF	OBUS	5.3660e-003	4.4740e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.55
tblVehicleEF	OBUS	0.39	0.55
tblVehicleEF	OBUS	4.58	2.14
tblVehicleEF	OBUS	80.14	77.32
tblVehicleEF	OBUS	1,203.91	1,334.35
tblVehicleEF	OBUS	69.07	19.21
tblVehicleEF	OBUS	0.16	0.28
tblVehicleEF	OBUS	0.52	0.92
tblVehicleEF	OBUS	1.92	0.74
tblVehicleEF	OBUS	1.2000e-005	8.8000e-005
tblVehicleEF	OBUS	2.4030e-003	6.5550e-003
tblVehicleEF	OBUS	8.9600e-004	2.0200e-004
tblVehicleEF	OBUS	1.1000e-005	8.4000e-005
tblVehicleEF	OBUS	2.2790e-003	6.2550e-003
tblVehicleEF	OBUS	8.2400e-004	1.8600e-004
tblVehicleEF	OBUS	1.8380e-003	2.3950e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0100e-003	1.2840e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.29	0.11
tblVehicleEF	OBUS	7.7700e-004	7.3700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7100e-004	1.9000e-004
tblVehicleEF	OBUS	1.8380e-003	2.3950e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.0100e-003	1.2840e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.32	0.12
tblVehicleEF	OBUS	0.01	8.5700e-003
tblVehicleEF	OBUS	5.2500e-003	4.3550e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.56
tblVehicleEF	OBUS	0.38	0.54
tblVehicleEF	OBUS	4.86	2.28
tblVehicleEF	OBUS	71.70	79.37
tblVehicleEF	OBUS	1,203.91	1,334.32
tblVehicleEF	OBUS	69.07	19.44
tblVehicleEF	OBUS	0.15	0.32
tblVehicleEF	OBUS	0.54	0.96
tblVehicleEF	OBUS	1.96	0.76
tblVehicleEF	OBUS	1.7000e-005	1.1500e-004

tblVehicleEF	OBUS	2.4030e-003	6.5550e-003
tblVehicleEF	OBUS	8.9600e-004	2.0200e-004
tblVehicleEF	OBUS	1.6000e-005	1.1000e-004
tblVehicleEF	OBUS	2.2790e-003	6.2550e-003
tblVehicleEF	OBUS	8.2400e-004	1.8600e-004
tblVehicleEF	OBUS	1.3380e-003	1.7730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.3000e-004	9.4400e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9600e-004	7.5600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7600e-004	1.9200e-004
tblVehicleEF	OBUS	1.3380e-003	1.7730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	7.3000e-004	9.4400e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	SBUS	0.83	0.09
tblVehicleEF	SBUS	0.02	9.1570e-003
tblVehicleEF	SBUS	0.07	8.2300e-003
tblVehicleEF	SBUS	8.49	3.34
tblVehicleEF	SBUS	0.94	0.84
tblVehicleEF	SBUS	8.61	1.12
tblVehicleEF	SBUS	1,085.60	359.37

tblVehicleEF	SBUS	1,065.54	1,076.06
tblVehicleEF	SBUS	58.07	6.66
tblVehicleEF	SBUS	7.75	3.47
tblVehicleEF	SBUS	3.55	5.09
tblVehicleEF	SBUS	11.66	0.75
tblVehicleEF	SBUS	6.9310e-003	4.4780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7000e-005
tblVehicleEF	SBUS	6.6310e-003	4.2840e-003
tblVehicleEF	SBUS	2.6550e-003	2.6190e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.1000e-005
tblVehicleEF	SBUS	3.3910e-003	1.1510e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.01	0.40
tblVehicleEF	SBUS	1.9710e-003	6.6100e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.05
tblVehicleEF	SBUS	0.01	3.4360e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.3000e-004	6.6000e-005
tblVehicleEF	SBUS	3.3910e-003	1.1510e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.46	0.57
tblVehicleEF	SBUS	1.9710e-003	6.6100e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02

tblVehicleEF	SBUS	0.50	0.05
tblVehicleEF	SBUS	0.83	0.09
tblVehicleEF	SBUS	0.02	9.2670e-003
tblVehicleEF	SBUS	0.06	7.3960e-003
tblVehicleEF	SBUS	8.40	3.30
tblVehicleEF	SBUS	0.95	0.85
tblVehicleEF	SBUS	7.12	0.92
tblVehicleEF	SBUS	1,133.08	368.54
tblVehicleEF	SBUS	1,065.54	1,076.08
tblVehicleEF	SBUS	58.07	6.33
tblVehicleEF	SBUS	8.00	3.55
tblVehicleEF	SBUS	3.35	4.81
tblVehicleEF	SBUS	11.63	0.75
tblVehicleEF	SBUS	5.8420e-003	3.7810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7000e-005
tblVehicleEF	SBUS	5.5900e-003	3.6170e-003
tblVehicleEF	SBUS	2.6550e-003	2.6190e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.1000e-005
tblVehicleEF	SBUS	4.6620e-003	1.5800e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.01	0.40
tblVehicleEF	SBUS	2.6790e-003	8.9500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.5220e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.0500e-004	6.3000e-005
tblVehicleEF	SBUS	4.6620e-003	1.5800e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.46	0.57
tblVehicleEF	SBUS	2.6790e-003	8.9500e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.45	0.05
tblVehicleEF	SBUS	0.83	0.09
tblVehicleEF	SBUS	0.02	9.1270e-003
tblVehicleEF	SBUS	0.07	8.3500e-003
tblVehicleEF	SBUS	8.63	3.39
tblVehicleEF	SBUS	0.93	0.83
tblVehicleEF	SBUS	8.75	1.13
tblVehicleEF	SBUS	1,020.03	346.72
tblVehicleEF	SBUS	1,065.54	1,076.06
tblVehicleEF	SBUS	58.07	6.69
tblVehicleEF	SBUS	7.41	3.35
tblVehicleEF	SBUS	3.49	5.00
tblVehicleEF	SBUS	11.67	0.75
tblVehicleEF	SBUS	8.4330e-003	5.4400e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7000e-005
tblVehicleEF	SBUS	8.0680e-003	5.2050e-003
tblVehicleEF	SBUS	2.6550e-003	2.6190e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.1000e-005

tblVehicleEF	SBUS	3.3080e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.01	0.40
tblVehicleEF	SBUS	1.9200e-003	6.4200e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.05
tblVehicleEF	SBUS	0.01	3.3160e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.3200e-004	6.6000e-005
tblVehicleEF	SBUS	3.3080e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.47	0.57
tblVehicleEF	SBUS	1.9200e-003	6.4200e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.51	0.05
tblVehicleEF	UBUS	1.60	1.2910e-003
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.75	0.07
tblVehicleEF	UBUS	12.30	1.81
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.36
tblVehicleEF	UBUS	3.61	0.05
tblVehicleEF	UBUS	13.00	0.18
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2580e-003
tblVehicleEF	UBUS	0.03	3.6000e-004
tblVehicleEF	UBUS	1.3330e-003	1.7000e-004

tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004
tblVehicleEF	UBUS	0.03	3.3100e-004
tblVehicleEF	UBUS	1.2250e-003	1.5700e-004
tblVehicleEF	UBUS	5.7880e-003	1.1460e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3800e-004
tblVehicleEF	UBUS	0.41	4.2710e-003
tblVehicleEF	UBUS	0.03	2.7280e-003
tblVehicleEF	UBUS	0.94	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8190e-003
tblVehicleEF	UBUS	1.6040e-003	2.0100e-004
tblVehicleEF	UBUS	5.7880e-003	1.1460e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3800e-004
tblVehicleEF	UBUS	2.05	6.2320e-003
tblVehicleEF	UBUS	0.03	2.7280e-003
tblVehicleEF	UBUS	1.03	0.12
tblVehicleEF	UBUS	1.60	1.3190e-003
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	7.80	0.07
tblVehicleEF	UBUS	10.86	1.61
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.00
tblVehicleEF	UBUS	3.38	0.04
tblVehicleEF	UBUS	12.93	0.17
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2580e-003
tblVehicleEF	UBUS	0.03	3.6000e-004

tblVehicleEF	UBUS	1.3330e-003	1.7000e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004
tblVehicleEF	UBUS	0.03	3.3100e-004
tblVehicleEF	UBUS	1.2250e-003	1.5700e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0200e-003
tblVehicleEF	UBUS	0.41	4.3520e-003
tblVehicleEF	UBUS	0.03	2.4620e-003
tblVehicleEF	UBUS	0.87	0.10
tblVehicleEF	UBUS	8.5530e-003	3.8190e-003
tblVehicleEF	UBUS	1.5790e-003	1.9800e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0200e-003
tblVehicleEF	UBUS	2.06	6.3510e-003
tblVehicleEF	UBUS	0.03	2.4620e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	1.60	1.2850e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	7.74	0.06
tblVehicleEF	UBUS	12.55	1.85
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.42
tblVehicleEF	UBUS	3.54	0.05
tblVehicleEF	UBUS	13.02	0.18
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2580e-003

tblVehicleEF	UBUS	0.03	3.6000e-004
tblVehicleEF	UBUS	1.3330e-003	1.7000e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004
tblVehicleEF	UBUS	0.03	3.3100e-004
tblVehicleEF	UBUS	1.2250e-003	1.5700e-004
tblVehicleEF	UBUS	6.4170e-003	1.1580e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.7120e-003	7.1600e-004
tblVehicleEF	UBUS	0.40	4.2510e-003
tblVehicleEF	UBUS	0.04	3.3320e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8190e-003
tblVehicleEF	UBUS	1.6080e-003	2.0200e-004
tblVehicleEF	UBUS	6.4170e-003	1.1580e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.7120e-003	7.1600e-004
tblVehicleEF	UBUS	2.05	6.2030e-003
tblVehicleEF	UBUS	0.04	3.3320e-003
tblVehicleEF	UBUS	1.05	0.12
tblVehicleTrips	CC_TL	8.40	5.94
tblVehicleTrips	CNW_TL	6.90	5.94
tblVehicleTrips	CW_TL	16.60	5.94
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	HO_TL	8.70	5.94
tblVehicleTrips	HS_TL	5.90	5.94
tblVehicleTrips	HW_TL	14.70	5.94
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	6.39	3.09
tblVehicleTrips	ST_TR	49.97	29.02
tblVehicleTrips	SU_TR	5.86	2.57
tblVehicleTrips	SU_TR	25.24	13.35
tblVehicleTrips	WD_TR	6.65	3.42
tblVehicleTrips	WD_TR	42.70	23.80
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	27,364,690.76	37,980,278.00
tblWater	IndoorWaterUseRate	921,462.17	0.00
tblWater	OutdoorWaterUseRate	17,251,652.87	155,398.00
tblWater	OutdoorWaterUseRate	564,767.13	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	21.00	0.00
tblWoodstoves	NumberNoncatalytic	21.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.1331	0.0512	4.3329	2.4000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	8.5216	8.5216	6.8300e-003	3.0000e-005	8.7002
Energy	0.0253	0.2167	0.0927	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	877.6934	877.6934	0.0390	0.0117	882.1482
Mobile	0.3904	0.4206	4.2662	0.0112	1.3380	7.5900e-003	1.3456	0.3559	7.0200e-003	0.3629	0.0000	1,051.7657	1,051.7657	0.0463	0.0000	1,052.9224
Waste						0.0000	0.0000		0.0000	0.0000	41.8689	0.0000	41.8689	2.4744	0.0000	103.7285
Water						0.0000	0.0000		0.0000	0.0000	13.4375	119.6289	133.0663	0.0528	0.0306	143.4965
Total	**2.5488**	**0.6884**	**8.6919**	**0.0128**	**1.3380**	**0.0492**	**1.3873**	**0.3559**	**0.0486**	**0.4045**	**55.3064**	**2,057.6095**	**2,112.9159**	**2.6193**	**0.0423**	**2,190.9958**

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	2.1331	0.0512	4.3329	2.4000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	8.5216	8.5216	6.8300e-003	3.0000e-005	8.7002
Energy	0.0253	0.2167	0.0927	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	877.6934	877.6934	0.0390	0.0117	882.1482
Mobile	0.3904	0.4206	4.2662	0.0112	1.3380	7.5900e-003	1.3456	0.3559	7.0200e-003	0.3629	0.0000	1,051.7657	1,051.7657	0.0463	0.0000	1,052.9224
Waste						0.0000	0.0000		0.0000	0.0000	41.8689	0.0000	41.8689	2.4744	0.0000	103.7285
Water						0.0000	0.0000		0.0000	0.0000	10.7500	95.7609	106.5109	0.0422	0.0245	114.8553
Total	**2.5488**	**0.6884**	**8.6919**	**0.0128**	**1.3380**	**0.0492**	**1.3873**	**0.3559**	**0.0486**	**0.4045**	**52.6189**	**2,033.7416**	**2,086.3605**	**2.6087**	**0.0362**	**2,162.3546**

	ROG	NOx	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**	**4.86**	**1.16**	**1.26**	**0.40**	**14.45**	**1.31**

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	0.3904	0.4206	4.2662	0.0112	1.3380	7.5900e-003	1.3456	0.3559	7.0200e-003	0.3629	0.0000	1,051.7657	1,051.7657	0.0463	0.0000	1,052.9224
Unmitigated	0.3904	0.4206	4.2662	0.0112	1.3380	7.5900e-003	1.3456	0.3559	7.0200e-003	0.3629	0.0000	1,051.7657	1,051.7657	0.0463	0.0000	1,052.9224

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,436.40	1,297.80	1079.40	2,952,646	2,952,646
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	296.07	361.01	166.07	620,059	620,059
Total	1,732.47	1,658.81	1,245.47	3,572,705	3,572,705

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
Apartments Mid Rise	5.94	5.94	5.94	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	5.94	5.94	5.94	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.666486	0.050589	0.246793	0.020000	0.002207	0.000876	0.003987	0.002706	0.000000	0.000000	0.006133	0.000091	0.000133
Enclosed Parking with Elevator	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Other Non-Asphalt Surfaces	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Regional Shopping Center	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

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	626.8758	626.8758	0.0342	7.0800e-003	629.8401
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	626.8758	626.8758	0.0342	7.0800e-003	629.8401
NaturalGas Mitigated	0.0253	0.2167	0.0927	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.8177	250.8177	4.8100e-003	4.6000e-003	252.3081
NaturalGas Unmitigated	0.0253	0.2167	0.0927	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.8177	250.8177	4.8100e-003	4.6000e-003	252.3081

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					
Apartments Mid Rise	4.67539e+006	0.0252	0.2154	0.0917	1.3800e-003		0.0174	0.0174		0.0174	0.0174	0.0000	249.4968	249.4968	4.7800e-003	4.5700e-003	250.9795
Enclosed Parking with Elevator	0	0.0000	0.0000	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
Regional Shopping Center	24751.6	1.3000e-004	1.2100e-003	1.0200e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3208	1.3208	3.0000e-005	2.0000e-005	1.3287
Total		**0.0253**	**0.2166**	**0.0927**	**1.3900e-003**		**0.0175**	**0.0175**		**0.0175**	**0.0175**	**0.0000**	**250.8177**	**250.8177**	**4.8100e-003**	**4.5900e-003**	**252.3081**

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					
Apartments Mid Rise	4.67539e+006	0.0252	0.2154	0.0917	1.3800e-003		0.0174	0.0174		0.0174	0.0174	0.0000	249.4968	249.4968	4.7800e-003	4.5700e-003	250.9795
Enclosed Parking with Elevator	0	0.0000	0.0000	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
Regional Shopping Center	24751.6	1.3000e-004	1.2100e-003	1.0200e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3208	1.3208	3.0000e-005	2.0000e-005	1.3287
Total		**0.0253**	**0.2166**	**0.0927**	**1.3900e-003**		**0.0175**	**0.0175**		**0.0175**	**0.0175**	**0.0000**	**250.8177**	**250.8177**	**4.8100e-003**	**4.5900e-003**	**252.3081**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.66811e+006	402.1108	0.0219	4.5400e-003	404.0122
Enclosed Parking with Elevator	793979	191.3943	0.0104	2.1600e-003	192.2993
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	138435	33.3707	1.8200e-003	3.8000e-004	33.5285
Total		**626.8758**	**0.0342**	**7.0800e-003**	**629.8401**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.66811e+006	402.1108	0.0219	4.5400e-003	404.0122
Enclosed Parking with Elevator	793979	191.3943	0.0104	2.1600e-003	192.2993
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	138435	33.3707	1.8200e-003	3.8000e-004	33.5285
Total		**626.8758**	**0.0342**	**7.0800e-003**	**629.8401**

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	2.1331	0.0512	4.3329	2.4000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	8.5216	8.5216	6.8300e-003	3.0000e-005	8.7002
Unmitigated	2.1331	0.0512	4.3329	2.4000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	8.5216	8.5216	6.8300e-003	3.0000e-005	8.7002

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	0.2399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7627					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5000e-004	1.2400e-003	5.3000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4408	1.4408	3.0000e-005	3.0000e-005	1.4494
Landscaping	0.1305	0.0499	4.3324	2.3000e-004		0.0240	0.0240		0.0240	0.0240	0.0000	7.0808	7.0808	6.8000e-003	0.0000	7.2508
Total	**2.1331**	**0.0512**	**4.3329**	**2.4000e-004**		**0.0241**	**0.0241**		**0.0241**	**0.0241**	**0.0000**	**8.5216**	**8.5216**	**6.8300e-003**	**3.0000e-005**	**8.7002**

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	0.2399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7627					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5000e-004	1.2400e-003	5.3000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4408	1.4408	3.0000e-005	3.0000e-005	1.4494
Landscaping	0.1305	0.0499	4.3324	2.3000e-004		0.0240	0.0240		0.0240	0.0240	0.0000	7.0808	7.0808	6.8000e-003	0.0000	7.2508
Total	**2.1331**	**0.0512**	**4.3329**	**2.4000e-004**		**0.0241**	**0.0241**		**0.0241**	**0.0241**	**0.0000**	**8.5216**	**8.5216**	**6.8300e-003**	**3.0000e-005**	**8.7002**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	106.5109	0.0422	0.0245	114.8553
Unmitigated	133.0663	0.0528	0.0306	143.4965

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	37.9803 / 0.155398	133.0663	0.0528	0.0306	143.4965
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**133.0663**	**0.0528**	**0.0306**	**143.4965**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	30.3842 / 0.145919	106.5109	0.0422	0.0245	114.8553
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**106.5109**	**0.0422**	**0.0245**	**114.8553**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.8689	2.4744	0.0000	103.7285
Unmitigated	41.8689	2.4744	0.0000	103.7285

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	13.06	2.6511	0.1567	0.0000	6.5679
Total		**41.8689**	**2.4744**	**0.0000**	**103.7285**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	13.06	2.6511	0.1567	0.0000	6.5679
Total		**41.8689**	**2.4744**	**0.0000**	**103.7285**

CalEEMod Existing Conditions Model

The Hub Fullerton Baseline Conditions (2024) - Orange County, Winter

The Hub Fullerton Baseline Conditions (2024)

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	55.33	1000sqft	0.64	55,332.00	0
Parking Lot	126.97	1000sqft	2.91	126,972.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - buildings onsite are 2 stories tall

Construction Phase -

Vehicle Trips - based on info from F&P

Vehicle Emission Factors - EMFAC2017 adjustment

Energy Use -

Water And Wastewater - based on sewer study, assumes 100% aerobic treatment

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	55,330.00	55,332.00
tblLandUse	LandUseSquareFeet	126,970.00	126,972.00
tblLandUse	LotAcreage	1.27	0.64
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleEF	HHD	0.44	0.03
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	0.06	7.2464e-007
tblVehicleEF	HHD	1.47	6.07
tblVehicleEF	HHD	1.26	0.64
tblVehicleEF	HHD	4.25	0.01
tblVehicleEF	HHD	3,818.18	1,012.56
tblVehicleEF	HHD	1,584.91	1,373.65
tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	12.98	5.26
tblVehicleEF	HHD	1.77	2.42
tblVehicleEF	HHD	19.03	2.48
tblVehicleEF	HHD	0.01	2.9540e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0902e-006
tblVehicleEF	HHD	0.01	2.8262e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6690e-003	8.7624e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0024e-006
tblVehicleEF	HHD	1.1600e-004	3.6710e-006

tblVehicleEF	HHD	4.7330e-003	1.5602e-004
tblVehicleEF	HHD	0.35	0.40
tblVehicleEF	HHD	8.9000e-005	2.6353e-006
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	4.2800e-004	6.2785e-005
tblVehicleEF	HHD	0.09	3.7937e-006
tblVehicleEF	HHD	0.03	9.2462e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0800e-004	7.6681e-007
tblVehicleEF	HHD	1.1600e-004	3.6710e-006
tblVehicleEF	HHD	4.7330e-003	1.5602e-004
tblVehicleEF	HHD	0.43	0.47
tblVehicleEF	HHD	8.9000e-005	2.6353e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	4.2800e-004	6.2785e-005
tblVehicleEF	HHD	0.09	4.1536e-006
tblVehicleEF	HHD	0.42	0.03
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	0.06	6.9601e-007
tblVehicleEF	HHD	1.07	5.98
tblVehicleEF	HHD	1.27	0.64
tblVehicleEF	HHD	4.05	9.6241e-003
tblVehicleEF	HHD	4,045.03	1,001.49
tblVehicleEF	HHD	1,584.91	1,373.65
tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	13.40	5.04
tblVehicleEF	HHD	1.67	2.30
tblVehicleEF	HHD	19.02	2.48
tblVehicleEF	HHD	9.0000e-003	2.5700e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0902e-006
tblVehicleEF	HHD	8.6100e-003	2.4588e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6690e-003	8.7624e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0024e-006
tblVehicleEF	HHD	1.6500e-004	5.3617e-006
tblVehicleEF	HHD	4.8270e-003	1.5842e-004
tblVehicleEF	HHD	0.33	0.43
tblVehicleEF	HHD	1.2300e-004	3.8527e-006
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	4.1200e-004	6.1486e-005
tblVehicleEF	HHD	0.08	3.6535e-006
tblVehicleEF	HHD	0.04	9.1421e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0400e-004	7.5937e-007
tblVehicleEF	HHD	1.6500e-004	5.3617e-006
tblVehicleEF	HHD	4.8270e-003	1.5842e-004
tblVehicleEF	HHD	0.41	0.50
tblVehicleEF	HHD	1.2300e-004	3.8527e-006
tblVehicleEF	HHD	0.26	0.17
tblVehicleEF	HHD	4.1200e-004	6.1486e-005
tblVehicleEF	HHD	0.09	4.0001e-006
tblVehicleEF	HHD	0.48	0.02
tblVehicleEF	HHD	0.16	8.8830e-004
tblVehicleEF	HHD	0.06	7.3145e-007

tblVehicleEF	HHD	2.03	6.01
tblVehicleEF	HHD	1.26	0.21
tblVehicleEF	HHD	4.29	0.01
tblVehicleEF	HHD	3,504.93	993.90
tblVehicleEF	HHD	1,584.91	1,270.38
tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	12.41	5.37
tblVehicleEF	HHD	1.74	2.32
tblVehicleEF	HHD	19.03	2.48
tblVehicleEF	HHD	0.01	3.1443e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0902e-006
tblVehicleEF	HHD	0.01	3.0082e-003
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6690e-003	8.4791e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0024e-006
tblVehicleEF	HHD	1.1300e-004	3.7860e-006
tblVehicleEF	HHD	5.0410e-003	1.7191e-004
tblVehicleEF	HHD	0.38	0.37
tblVehicleEF	HHD	8.9000e-005	2.7313e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.6700e-004	6.7157e-005
tblVehicleEF	HHD	0.09	3.8262e-006
tblVehicleEF	HHD	0.03	9.3899e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0800e-004	7.6824e-007

tblVehicleEF	HHD	1.1300e-004	3.7860e-006
tblVehicleEF	HHD	5.0410e-003	1.7191e-004
tblVehicleEF	HHD	0.46	0.42
tblVehicleEF	HHD	8.9000e-005	2.7313e-006
tblVehicleEF	HHD	0.25	0.02
tblVehicleEF	HHD	4.6700e-004	6.7157e-005
tblVehicleEF	HHD	0.09	4.1892e-006
tblVehicleEF	LDA	3.2540e-003	1.8161e-003
tblVehicleEF	LDA	3.5200e-003	0.04
tblVehicleEF	LDA	0.48	0.55
tblVehicleEF	LDA	0.84	1.93
tblVehicleEF	LDA	231.86	246.35
tblVehicleEF	LDA	51.83	50.40
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.15
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.8000e-003	1.4317e-003
tblVehicleEF	LDA	2.2330e-003	1.6847e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.6580e-003	1.3182e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.1920e-003	6.5890e-003
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.05	0.17

tblVehicleEF	LDA	2.3210e-003	2.3879e-003
tblVehicleEF	LDA	5.3200e-004	4.8864e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.5744e-003
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4390e-003	1.9350e-003
tblVehicleEF	LDA	3.1700e-003	0.04
tblVehicleEF	LDA	0.52	0.60
tblVehicleEF	LDA	0.73	1.66
tblVehicleEF	LDA	241.58	256.41
tblVehicleEF	LDA	51.83	49.92
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.8000e-003	1.4317e-003
tblVehicleEF	LDA	2.2330e-003	1.6847e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.6580e-003	1.3182e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	8.6510e-003	6.9574e-003
tblVehicleEF	LDA	0.03	0.02

tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	2.4190e-003	2.4854e-003
tblVehicleEF	LDA	5.3000e-004	4.8395e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.1920e-003	1.7787e-003
tblVehicleEF	LDA	3.5920e-003	0.04
tblVehicleEF	LDA	0.47	0.53
tblVehicleEF	LDA	0.87	1.98
tblVehicleEF	LDA	228.27	242.64
tblVehicleEF	LDA	51.83	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.16
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.8000e-003	1.4317e-003
tblVehicleEF	LDA	2.2330e-003	1.6847e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.6580e-003	1.3182e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.0370e-003	6.4651e-003

tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2850e-003	2.3519e-003
tblVehicleEF	LDA	5.3300e-004	4.8966e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.3936e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDT1	7.2360e-003	4.1472e-003
tblVehicleEF	LDT1	9.9520e-003	0.06
tblVehicleEF	LDT1	0.92	0.93
tblVehicleEF	LDT1	2.03	2.10
tblVehicleEF	LDT1	292.62	293.91
tblVehicleEF	LDT1	65.95	61.09
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.2960e-003	1.8512e-003
tblVehicleEF	LDT1	2.9420e-003	2.1801e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0045e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09

tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.13	0.27
tblVehicleEF	LDT1	2.9360e-003	2.8494e-003
tblVehicleEF	LDT1	6.9500e-004	5.9228e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.15	0.29
tblVehicleEF	LDT1	7.6070e-003	4.3889e-003
tblVehicleEF	LDT1	8.9270e-003	0.05
tblVehicleEF	LDT1	0.99	1.01
tblVehicleEF	LDT1	1.75	1.81
tblVehicleEF	LDT1	304.46	304.24
tblVehicleEF	LDT1	65.95	60.53
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.11	0.20
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.2960e-003	1.8512e-003
tblVehicleEF	LDT1	2.9420e-003	2.1801e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0045e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16

tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	3.0550e-003	2.9496e-003
tblVehicleEF	LDT1	6.9000e-004	5.8685e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.13	0.26
tblVehicleEF	LDT1	7.1090e-003	4.0701e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	0.89	0.90
tblVehicleEF	LDT1	2.09	2.16
tblVehicleEF	LDT1	288.25	290.09
tblVehicleEF	LDT1	65.95	61.21
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.2960e-003	1.8512e-003
tblVehicleEF	LDT1	2.9420e-003	2.1801e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0045e-003
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.14	0.27
tblVehicleEF	LDT1	2.8920e-003	2.8125e-003
tblVehicleEF	LDT1	6.9600e-004	5.9347e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.15	0.30
tblVehicleEF	LDT2	4.5940e-003	2.9810e-003
tblVehicleEF	LDT2	4.8100e-003	0.06
tblVehicleEF	LDT2	0.64	0.74
tblVehicleEF	LDT2	1.11	2.45
tblVehicleEF	LDT2	329.48	312.71
tblVehicleEF	LDT2	73.66	65.44
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.08	0.22
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8470e-003	1.4663e-003
tblVehicleEF	LDT2	2.3090e-003	1.6633e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6990e-003	1.3496e-003
tblVehicleEF	LDT2	2.1230e-003	1.5293e-003

tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	3.2990e-003	3.0312e-003
tblVehicleEF	LDT2	7.5500e-004	6.3446e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.07	0.27
tblVehicleEF	LDT2	4.8530e-003	3.1673e-003
tblVehicleEF	LDT2	4.3330e-003	0.05
tblVehicleEF	LDT2	0.69	0.80
tblVehicleEF	LDT2	0.96	2.11
tblVehicleEF	LDT2	342.98	322.65
tblVehicleEF	LDT2	73.66	64.81
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.07	0.21
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8470e-003	1.4663e-003
tblVehicleEF	LDT2	2.3090e-003	1.6633e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6990e-003	1.3496e-003

tblVehicleEF	LDT2	2.1230e-003	1.5293e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.23
tblVehicleEF	LDT2	3.4350e-003	3.1277e-003
tblVehicleEF	LDT2	7.5200e-004	6.2837e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	4.5070e-003	2.9223e-003
tblVehicleEF	LDT2	4.9080e-003	0.06
tblVehicleEF	LDT2	0.62	0.72
tblVehicleEF	LDT2	1.14	2.52
tblVehicleEF	LDT2	324.49	309.04
tblVehicleEF	LDT2	73.66	65.58
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.08	0.23
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8470e-003	1.4663e-003
tblVehicleEF	LDT2	2.3090e-003	1.6633e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.6990e-003	1.3496e-003
tblVehicleEF	LDT2	2.1230e-003	1.5293e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.2490e-003	2.9956e-003
tblVehicleEF	LDT2	7.5500e-004	6.3580e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LHD1	4.8760e-003	5.1794e-003
tblVehicleEF	LHD1	7.3850e-003	3.6571e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.42
tblVehicleEF	LHD1	2.05	0.96
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.39
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.97	0.58
tblVehicleEF	LHD1	0.88	0.30
tblVehicleEF	LHD1	8.7700e-004	8.3837e-004

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8001e-003
tblVehicleEF	LHD1	9.4650e-003	6.3814e-003
tblVehicleEF	LHD1	7.7100e-004	2.2183e-004
tblVehicleEF	LHD1	8.3900e-004	8.0210e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0816e-003
tblVehicleEF	LHD1	7.0900e-004	2.0396e-004
tblVehicleEF	LHD1	2.4720e-003	1.8824e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6210e-003	1.2383e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6064e-005
tblVehicleEF	LHD1	5.7060e-003	6.1793e-003
tblVehicleEF	LHD1	3.3900e-004	1.1274e-004
tblVehicleEF	LHD1	2.4720e-003	1.8824e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6210e-003	1.2383e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8760e-003	5.1900e-003
tblVehicleEF	LHD1	7.5120e-003	3.7121e-003
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.59	0.42
tblVehicleEF	LHD1	1.97	0.92
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.59
tblVehicleEF	LHD1	30.08	11.32
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.92	0.55
tblVehicleEF	LHD1	0.84	0.28
tblVehicleEF	LHD1	8.7700e-004	8.3837e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8001e-003
tblVehicleEF	LHD1	9.4650e-003	6.3814e-003
tblVehicleEF	LHD1	7.7100e-004	2.2183e-004
tblVehicleEF	LHD1	8.3900e-004	8.0210e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0816e-003
tblVehicleEF	LHD1	7.0900e-004	2.0396e-004
tblVehicleEF	LHD1	3.4440e-003	2.6308e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.20	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6064e-005
tblVehicleEF	LHD1	5.7070e-003	6.1794e-003
tblVehicleEF	LHD1	3.3800e-004	1.1206e-004

tblVehicleEF	LHD1	3.4440e-003	2.6308e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	4.8760e-003	5.1774e-003
tblVehicleEF	LHD1	7.3500e-003	3.6424e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.41
tblVehicleEF	LHD1	2.06	0.97
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.40
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.96	0.57
tblVehicleEF	LHD1	0.89	0.30
tblVehicleEF	LHD1	8.7700e-004	8.3837e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8001e-003
tblVehicleEF	LHD1	9.4650e-003	6.3814e-003
tblVehicleEF	LHD1	7.7100e-004	2.2183e-004
tblVehicleEF	LHD1	8.3900e-004	8.0210e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0816e-003
tblVehicleEF	LHD1	7.0900e-004	2.0396e-004

tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6290e-003	1.2475e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6064e-005
tblVehicleEF	LHD1	5.7060e-003	6.1793e-003
tblVehicleEF	LHD1	3.4000e-004	1.1284e-004
tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6290e-003	1.2475e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.5130e-003	3.7116e-003
tblVehicleEF	LHD2	3.0250e-003	2.8566e-003
tblVehicleEF	LHD2	6.4370e-003	9.0455e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.94
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.66
tblVehicleEF	LHD2	0.47	0.21

tblVehicleEF	LHD2	1.1390e-003	1.2802e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2248e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6730e-003	2.6459e-003
tblVehicleEF	LHD2	7.9990e-003	9.1749e-003
tblVehicleEF	LHD2	3.6300e-004	1.1769e-004
tblVehicleEF	LHD2	9.0300e-004	1.2059e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2254e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2895e-004
tblVehicleEF	LHD2	5.8410e-003	6.2136e-003
tblVehicleEF	LHD2	2.7900e-004	8.8512e-005
tblVehicleEF	LHD2	9.0300e-004	1.2059e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2254e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7192e-003
tblVehicleEF	LHD2	3.0530e-003	2.8803e-003

tblVehicleEF	LHD2	6.2440e-003	8.7613e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.06	0.62
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.90
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.62
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.1390e-003	1.2802e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2248e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6730e-003	2.6459e-003
tblVehicleEF	LHD2	7.9990e-003	9.1749e-003
tblVehicleEF	LHD2	3.6300e-004	1.1769e-004
tblVehicleEF	LHD2	1.2670e-003	1.6887e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1135e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2895e-004
tblVehicleEF	LHD2	5.8410e-003	6.2136e-003

tblVehicleEF	LHD2	2.7900e-004	8.8056e-005
tblVehicleEF	LHD2	1.2670e-003	1.6887e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1135e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7102e-003
tblVehicleEF	LHD2	3.0170e-003	2.8503e-003
tblVehicleEF	LHD2	6.4770e-003	9.1039e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.39
tblVehicleEF	LHD2	25.96	8.95
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.65
tblVehicleEF	LHD2	0.47	0.21
tblVehicleEF	LHD2	1.1390e-003	1.2802e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2248e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6730e-003	2.6459e-003
tblVehicleEF	LHD2	7.9990e-003	9.1749e-003

tblVehicleEF	LHD2	3.6300e-004	1.1769e-004
tblVehicleEF	LHD2	8.9600e-004	1.2115e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1351e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2895e-004
tblVehicleEF	LHD2	5.8410e-003	6.2136e-003
tblVehicleEF	LHD2	2.8000e-004	8.8585e-005
tblVehicleEF	LHD2	8.9600e-004	1.2115e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1351e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.95	18.16
tblVehicleEF	MCY	9.61	8.50
tblVehicleEF	MCY	178.67	214.64
tblVehicleEF	MCY	44.17	59.14
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.2470e-003	2.2317e-003

tblVehicleEF	MCY	3.4860e-003	2.9927e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.0980e-003	2.0841e-003
tblVehicleEF	MCY	3.2740e-003	2.8105e-003
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68
tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.34	2.35
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.02	1.79
tblVehicleEF	MCY	2.1510e-003	2.1241e-003
tblVehicleEF	MCY	6.5800e-004	5.8528e-004
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68
tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.92	2.93
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.20	1.95
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.31	17.50
tblVehicleEF	MCY	8.84	7.78
tblVehicleEF	MCY	178.67	213.41
tblVehicleEF	MCY	44.17	57.38
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003

tblVehicleEF	MCY	2.2470e-003	2.2317e-003
tblVehicleEF	MCY	3.4860e-003	2.9927e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.0980e-003	2.0841e-003
tblVehicleEF	MCY	3.2740e-003	2.8105e-003
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.29	2.30
tblVehicleEF	MCY	0.56	0.50
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.1390e-003	2.1119e-003
tblVehicleEF	MCY	6.3900e-004	5.6781e-004
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.85	2.86
tblVehicleEF	MCY	0.56	0.50
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.04	18.25
tblVehicleEF	MCY	9.73	8.62
tblVehicleEF	MCY	178.67	214.83
tblVehicleEF	MCY	44.17	59.46
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01

tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.2470e-003	2.2317e-003
tblVehicleEF	MCY	3.4860e-003	2.9927e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.0980e-003	2.0841e-003
tblVehicleEF	MCY	3.2740e-003	2.8105e-003
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.35	2.36
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.1520e-003	2.1259e-003
tblVehicleEF	MCY	6.6100e-004	5.8841e-004
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.93	2.94
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.24	1.99
tblVehicleEF	MDV	8.2720e-003	3.7207e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	0.96	0.83
tblVehicleEF	MDV	1.95	2.70
tblVehicleEF	MDV	450.89	387.66
tblVehicleEF	MDV	98.57	79.61
tblVehicleEF	MDV	0.10	0.07
tblVehicleEF	MDV	0.17	0.27

tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8710e-003	1.5464e-003
tblVehicleEF	MDV	2.2680e-003	1.7228e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.4259e-003
tblVehicleEF	MDV	2.0860e-003	1.5841e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	4.5120e-003	3.7561e-003
tblVehicleEF	MDV	1.0190e-003	7.7184e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.15	0.34
tblVehicleEF	MDV	8.7240e-003	3.9512e-003
tblVehicleEF	MDV	9.3780e-003	0.06
tblVehicleEF	MDV	1.04	0.90
tblVehicleEF	MDV	1.69	2.32
tblVehicleEF	MDV	468.83	397.99
tblVehicleEF	MDV	98.57	78.90
tblVehicleEF	MDV	0.09	0.06

tblVehicleEF	MDV	0.16	0.25
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8710e-003	1.5464e-003
tblVehicleEF	MDV	2.2680e-003	1.7228e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.4259e-003
tblVehicleEF	MDV	2.0860e-003	1.5841e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.13	0.28
tblVehicleEF	MDV	4.6930e-003	3.8563e-003
tblVehicleEF	MDV	1.0150e-003	7.6496e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	8.1180e-003	3.6475e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	0.93	0.80
tblVehicleEF	MDV	2.00	2.78
tblVehicleEF	MDV	444.26	383.84
tblVehicleEF	MDV	98.57	79.77

tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.17	0.28
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8710e-003	1.5464e-003
tblVehicleEF	MDV	2.2680e-003	1.7228e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.4259e-003
tblVehicleEF	MDV	2.0860e-003	1.5841e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.14	0.32
tblVehicleEF	MDV	4.4460e-003	3.7191e-003
tblVehicleEF	MDV	1.0200e-003	7.7334e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MH	0.02	6.9351e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.27	0.73
tblVehicleEF	MH	4.43	1.75
tblVehicleEF	MH	1,096.02	1,403.51

tblVehicleEF	MH	56.63	16.91
tblVehicleEF	MH	1.16	1.27
tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1646e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2400e-003	3.3089e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9902e-004
tblVehicleEF	MH	0.74	0.62
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.4300e-004	1.6731e-004
tblVehicleEF	MH	0.74	0.62
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.02	7.0675e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.30	0.74
tblVehicleEF	MH	4.20	1.66

tblVehicleEF	MH	1,096.02	1,403.53
tblVehicleEF	MH	56.63	16.76
tblVehicleEF	MH	1.08	1.19
tblVehicleEF	MH	0.65	0.22
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1646e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2400e-003	3.3089e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9902e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	9.8866e-003
tblVehicleEF	MH	0.25	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.3900e-004	1.6581e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	9.8866e-003
tblVehicleEF	MH	0.27	0.08
tblVehicleEF	MH	0.02	6.8954e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.26	0.72

tblVehicleEF	MH	4.46	1.77
tblVehicleEF	MH	1,096.02	1,403.50
tblVehicleEF	MH	56.63	16.93
tblVehicleEF	MH	1.14	1.24
tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1646e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2400e-003	3.3089e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9902e-004
tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29
tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.4400e-004	1.6756e-004
tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MHD	0.02	4.6044e-003
tblVehicleEF	MHD	2.6670e-003	1.2190e-003

tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.32	0.38
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.63	1.13
tblVehicleEF	MHD	143.49	52.64
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.92
tblVehicleEF	MHD	0.37	0.25
tblVehicleEF	MHD	0.68	0.96
tblVehicleEF	MHD	11.00	1.55
tblVehicleEF	MHD	6.9000e-005	1.7495e-004
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8070e-003	6.0478e-003
tblVehicleEF	MHD	6.9200e-004	1.1093e-004
tblVehicleEF	MHD	6.6000e-005	1.6738e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.6820e-003	5.7808e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	9.3500e-004	4.6855e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.4122e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.05
tblVehicleEF	MHD	1.3800e-003	5.0126e-004
tblVehicleEF	MHD	0.01	9.4997e-003

tblVehicleEF	MHD	6.4800e-004	1.1798e-004
tblVehicleEF	MHD	9.3500e-004	4.6855e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.5100e-004	3.4122e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.06
tblVehicleEF	MHD	0.01	4.3675e-003
tblVehicleEF	MHD	2.6950e-003	1.2408e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.41	1.08
tblVehicleEF	MHD	151.98	52.58
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.83
tblVehicleEF	MHD	0.38	0.24
tblVehicleEF	MHD	0.65	0.90
tblVehicleEF	MHD	10.97	1.55
tblVehicleEF	MHD	5.8000e-005	1.4974e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8070e-003	6.0478e-003
tblVehicleEF	MHD	6.9200e-004	1.1093e-004
tblVehicleEF	MHD	5.5000e-005	1.4327e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.6820e-003	5.7808e-003

tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	1.3170e-003	6.6100e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.8900e-004	4.6414e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.28	0.05
tblVehicleEF	MHD	1.4600e-003	5.0080e-004
tblVehicleEF	MHD	0.01	9.4997e-003
tblVehicleEF	MHD	6.4400e-004	1.1708e-004
tblVehicleEF	MHD	1.3170e-003	6.6100e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.8900e-004	4.6414e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.30	0.06
tblVehicleEF	MHD	0.02	4.9472e-003
tblVehicleEF	MHD	2.6590e-003	1.2115e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.45	0.47
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	4.67	1.14
tblVehicleEF	MHD	131.74	52.73
tblVehicleEF	MHD	1,123.36	993.27
tblVehicleEF	MHD	56.66	11.94
tblVehicleEF	MHD	0.35	0.26
tblVehicleEF	MHD	0.67	0.94

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tblVehicleEF	MHD	8.4000e-005	2.0975e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8070e-003	6.0478e-003
tblVehicleEF	MHD	6.9200e-004	1.1093e-004
tblVehicleEF	MHD	8.0000e-005	2.0068e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.6820e-003	5.7808e-003
tblVehicleEF	MHD	6.3600e-004	1.0200e-004
tblVehicleEF	MHD	9.4200e-004	4.6197e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5200e-004	3.3820e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.06
tblVehicleEF	MHD	1.2700e-003	5.0182e-004
tblVehicleEF	MHD	0.01	9.4997e-003
tblVehicleEF	MHD	6.4800e-004	1.1816e-004
tblVehicleEF	MHD	9.4200e-004	4.6197e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.5200e-004	3.3820e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.32	0.06
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tblVehicleEF	OBUS	5.2770e-003	4.3817e-003
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tblVehicleEF	OBUS	0.25	0.56
tblVehicleEF	OBUS	0.39	0.54
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tblVehicleEF	OBUS	76.59	78.18
tblVehicleEF	OBUS	1,203.91	1,334.33
tblVehicleEF	OBUS	69.07	19.41
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tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	1.95	0.75
tblVehicleEF	OBUS	1.4000e-005	9.9299e-005
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.4030e-003	6.5545e-003
tblVehicleEF	OBUS	8.9600e-004	2.0231e-004
tblVehicleEF	OBUS	1.3000e-005	9.5003e-005
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.2790e-003	6.2545e-003
tblVehicleEF	OBUS	8.2400e-004	1.8602e-004
tblVehicleEF	OBUS	1.3360e-003	1.7513e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4000e-004	9.5000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.30	0.11
tblVehicleEF	OBUS	7.4300e-004	7.4495e-004

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9203e-004
tblVehicleEF	OBUS	1.3360e-003	1.7513e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.4000e-004	9.5000e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	0.01	8.7318e-003
tblVehicleEF	OBUS	5.3660e-003	4.4741e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.55
tblVehicleEF	OBUS	0.39	0.55
tblVehicleEF	OBUS	4.58	2.14
tblVehicleEF	OBUS	80.14	77.32
tblVehicleEF	OBUS	1,203.91	1,334.35
tblVehicleEF	OBUS	69.07	19.21
tblVehicleEF	OBUS	0.16	0.28
tblVehicleEF	OBUS	0.52	0.92
tblVehicleEF	OBUS	1.92	0.74
tblVehicleEF	OBUS	1.2000e-005	8.8234e-005
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.4030e-003	6.5545e-003
tblVehicleEF	OBUS	8.9600e-004	2.0231e-004
tblVehicleEF	OBUS	1.1000e-005	8.4417e-005
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003

tblVehicleEF	OBUS	2.2790e-003	6.2545e-003
tblVehicleEF	OBUS	8.2400e-004	1.8602e-004
tblVehicleEF	OBUS	1.8380e-003	2.3945e-003
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0100e-003	1.2838e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.29	0.11
tblVehicleEF	OBUS	7.7700e-004	7.3679e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7100e-004	1.9009e-004
tblVehicleEF	OBUS	1.8380e-003	2.3945e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.0100e-003	1.2838e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.32	0.12
tblVehicleEF	OBUS	0.01	8.5703e-003
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tblVehicleEF	OBUS	1,203.91	1,334.32
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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	1.6000e-005	1.0962e-004
tblVehicleEF	OBUS	0.06	0.06
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tblVehicleEF	OBUS	2.2790e-003	6.2545e-003
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tblVehicleEF	OBUS	0.03	0.05
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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	0.02	0.02
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tblVehicleEF	OBUS	0.04	0.07
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tblVehicleEF	SBUS	1,065.54	1,076.06
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tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7115e-005
tblVehicleEF	SBUS	6.6310e-003	4.2839e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6550e-003	2.6187e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.3700e-004	7.0905e-005
tblVehicleEF	SBUS	3.3910e-003	1.1512e-003
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tblVehicleEF	SBUS	0.02	0.02
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0190e-003	7.7115e-005
tblVehicleEF	SBUS	5.5900e-003	3.6171e-003
tblVehicleEF	SBUS	0.32	0.32

tblVehicleEF	SBUS	2.6550e-003	2.6187e-003
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tblVehicleEF	SBUS	4.6620e-003	1.5802e-003
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tblVehicleEF	SBUS	2.6790e-003	8.9511e-004
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tblVehicleEF	SBUS	0.01	0.01
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tblVehicleEF	SBUS	1,065.54	1,076.06
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tblVehicleEF	SBUS	3.49	5.00
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tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	2.6550e-003	2.6187e-003
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tblVehicleEF	SBUS	1.9200e-003	6.4214e-004
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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.05
tblVehicleEF	SBUS	0.01	3.3160e-003
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tblVehicleEF	SBUS	3.3080e-003	1.1236e-003
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tblVehicleEF	SBUS	1.47	0.57
tblVehicleEF	SBUS	1.9200e-003	6.4214e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02

tblVehicleEF	SBUS	0.51	0.05
tblVehicleEF	UBUS	1.60	1.2913e-003
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.75	0.07
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tblVehicleEF	UBUS	0.01	2.2582e-003
tblVehicleEF	UBUS	0.03	3.6033e-004
tblVehicleEF	UBUS	1.3330e-003	1.7046e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6454e-004
tblVehicleEF	UBUS	0.03	3.3131e-004
tblVehicleEF	UBUS	1.2250e-003	1.5673e-004
tblVehicleEF	UBUS	5.7880e-003	1.1457e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3833e-004
tblVehicleEF	UBUS	0.41	4.2705e-003
tblVehicleEF	UBUS	0.03	2.7282e-003
tblVehicleEF	UBUS	0.94	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8193e-003
tblVehicleEF	UBUS	1.6040e-003	2.0144e-004
tblVehicleEF	UBUS	5.7880e-003	1.1457e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3833e-004
tblVehicleEF	UBUS	2.05	6.2315e-003

tblVehicleEF	UBUS	0.03	2.7282e-003
tblVehicleEF	UBUS	1.03	0.12
tblVehicleEF	UBUS	1.60	1.3189e-003
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	7.80	0.07
tblVehicleEF	UBUS	10.86	1.61
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.00
tblVehicleEF	UBUS	3.38	0.04
tblVehicleEF	UBUS	12.93	0.17
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2582e-003
tblVehicleEF	UBUS	0.03	3.6033e-004
tblVehicleEF	UBUS	1.3330e-003	1.7046e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6454e-004
tblVehicleEF	UBUS	0.03	3.3131e-004
tblVehicleEF	UBUS	1.2250e-003	1.5673e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0195e-003
tblVehicleEF	UBUS	0.41	4.3522e-003
tblVehicleEF	UBUS	0.03	2.4623e-003
tblVehicleEF	UBUS	0.87	0.10
tblVehicleEF	UBUS	8.5530e-003	3.8193e-003
tblVehicleEF	UBUS	1.5790e-003	1.9796e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0195e-003

tblVehicleEF	UBUS	2.06	6.3508e-003
tblVehicleEF	UBUS	0.03	2.4623e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	1.60	1.2849e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	7.74	0.06
tblVehicleEF	UBUS	12.55	1.85
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.42
tblVehicleEF	UBUS	3.54	0.05
tblVehicleEF	UBUS	13.02	0.18
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2582e-003
tblVehicleEF	UBUS	0.03	3.6033e-004
tblVehicleEF	UBUS	1.3330e-003	1.7046e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6454e-004
tblVehicleEF	UBUS	0.03	3.3131e-004
tblVehicleEF	UBUS	1.2250e-003	1.5673e-004
tblVehicleEF	UBUS	6.4170e-003	1.1578e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.7120e-003	7.1632e-004
tblVehicleEF	UBUS	0.40	4.2510e-003
tblVehicleEF	UBUS	0.04	3.3316e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8193e-003
tblVehicleEF	UBUS	1.6080e-003	2.0207e-004
tblVehicleEF	UBUS	6.4170e-003	1.1578e-003
tblVehicleEF	UBUS	0.11	0.01

tblVehicleEF	UBUS	3.7120e-003	7.1632e-004
tblVehicleEF	UBUS	2.05	6.2030e-003
tblVehicleEF	UBUS	0.04	3.3316e-003
tblVehicleEF	UBUS	1.05	0.12
tblVehicleTrips	ST_TR	2.46	1.63
tblVehicleTrips	SU_TR	1.05	0.54
tblVehicleTrips	WD_TR	11.03	7.23
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	9,834,008.28	3,256,611.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2925	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Energy	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
Mobile	0.5854	1.3006	7.3351	0.0250	2.7275	0.0175	2.7450	0.7284	0.0163	0.7447		2,590.1432	2,590.1432	0.0735		2,591.9812
Total	**1.8956**	**1.4617**	**7.4889**	**0.0260**	**2.7275**	**0.0298**	**2.7573**	**0.7284**	**0.0286**	**0.7570**		**2,783.3324**	**2,783.3324**	**0.0773**	**3.5400e-003**	**2,786.3207**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2925	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Energy	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
Mobile	0.5854	1.3006	7.3351	0.0250	2.7275	0.0175	2.7450	0.7284	0.0163	0.7447		2,590.1432	2,590.1432	0.0735		2,591.9812
Total	**1.8956**	**1.4617**	**7.4889**	**0.0260**	**2.7275**	**0.0298**	**2.7573**	**0.7284**	**0.0286**	**0.7570**		**2,783.3324**	**2,783.3324**	**0.0773**	**3.5400e-003**	**2,786.3207**

	ROG	NOx	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**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5854	1.3006	7.3351	0.0250	2.7275	0.0175	2.7450	0.7284	0.0163	0.7447		2,590.1432	2,590.1432	0.0735		2,591.9812
Unmitigated	0.5854	1.3006	7.3351	0.0250	2.7275	0.0175	2.7450	0.7284	0.0163	0.7447		2,590.1432	2,590.1432	0.0735		2,591.9812

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	400.04	90.19	29.88	975,755	975,755
Parking Lot	0.00	0.00	0.00		
Total	400.04	90.19	29.88	975,755	975,755

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	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 Office Building	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Parking Lot	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
NaturalGas Unmitigated	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1641.77	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0177**	**0.1610**	**0.1352**	**9.7000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**		**193.1493**	**193.1493**	**3.7000e-003**	**3.5400e-003**	**194.2970**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1.64177	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0177**	**0.1610**	**0.1352**	**9.7000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**		**193.1493**	**193.1493**	**3.7000e-003**	**3.5400e-003**	**194.2970**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2925	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Unmitigated	1.2925	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Total	**1.2925**	**1.7000e-004**	**0.0186**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0399**	**0.0399**	**1.0000e-004**		**0.0425**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Total	**1.2925**	**1.7000e-004**	**0.0186**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0399**	**0.0399**	**1.0000e-004**		**0.0425**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

The Hub Fullerton Existing Conditions (2021)

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	55.33	1000sqft	0.64	55,332.00	0
Parking Lot	126.97	1000sqft	2.91	126,972.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - buildings onsite are 2 stories tall

Construction Phase -

Energy Use -

Water And Wastewater - based on sewer study, assumes 100% aerobic treatment

Vehicle Trips - based on info from F&P

Vehicle Emission Factors - EMFAC2017 adjustment

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	55,330.00	55,332.00
tblLandUse	LandUseSquareFeet	126,970.00	126,972.00
tblLandUse	LotAcreage	1.27	0.64
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleEF	HHD	0.63	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	2.36	5.39
tblVehicleEF	HHD	1.29	0.84
tblVehicleEF	HHD	3.99	0.01
tblVehicleEF	HHD	4,116.44	1,057.87
tblVehicleEF	HHD	1,683.99	1,517.44
tblVehicleEF	HHD	12.64	0.09
tblVehicleEF	HHD	20.04	5.92
tblVehicleEF	HHD	3.96	3.93
tblVehicleEF	HHD	19.26	1.99
tblVehicleEF	HHD	0.02	8.4880e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	1.1600e-004	1.0000e-006
tblVehicleEF	HHD	0.02	8.1210e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6750e-003	8.7680e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	1.0700e-004	1.0000e-006
tblVehicleEF	HHD	1.1800e-004	6.0000e-006
tblVehicleEF	HHD	4.9160e-003	2.4300e-004
tblVehicleEF	HHD	0.57	0.41

tblVehicleEF	HHD	8.9000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	4.6300e-004	9.9000e-005
tblVehicleEF	HHD	0.10	4.0000e-006
tblVehicleEF	HHD	0.04	9.6940e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.9200e-004	1.0000e-006
tblVehicleEF	HHD	1.1800e-004	6.0000e-006
tblVehicleEF	HHD	4.9160e-003	2.4300e-004
tblVehicleEF	HHD	0.68	0.48
tblVehicleEF	HHD	8.9000e-005	4.0000e-006
tblVehicleEF	HHD	0.31	0.27
tblVehicleEF	HHD	4.6300e-004	9.9000e-005
tblVehicleEF	HHD	0.11	5.0000e-006
tblVehicleEF	HHD	0.59	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.08	7.8282e-007
tblVehicleEF	HHD	1.72	5.25
tblVehicleEF	HHD	1.30	0.84
tblVehicleEF	HHD	3.80	0.01
tblVehicleEF	HHD	4,359.67	1,057.02
tblVehicleEF	HHD	1,683.99	1,517.44
tblVehicleEF	HHD	12.64	0.09
tblVehicleEF	HHD	20.68	5.78
tblVehicleEF	HHD	3.75	3.72
tblVehicleEF	HHD	19.25	1.99
tblVehicleEF	HHD	0.02	7.8073e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.05

tblVehicleEF	HHD	1.1600e-004	1.4783e-006
tblVehicleEF	HHD	0.02	7.4696e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6750e-003	8.7677e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	1.0700e-004	1.3593e-006
tblVehicleEF	HHD	1.6900e-004	8.5198e-006
tblVehicleEF	HHD	5.0090e-003	2.4616e-004
tblVehicleEF	HHD	0.54	0.43
tblVehicleEF	HHD	1.2500e-004	6.0857e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	4.4900e-004	9.7247e-005
tblVehicleEF	HHD	0.09	4.1088e-006
tblVehicleEF	HHD	0.04	9.6851e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.8900e-004	8.4844e-007
tblVehicleEF	HHD	1.6900e-004	8.5198e-006
tblVehicleEF	HHD	5.0090e-003	2.4616e-004
tblVehicleEF	HHD	0.64	0.50
tblVehicleEF	HHD	1.2500e-004	6.0857e-006
tblVehicleEF	HHD	0.31	0.27
tblVehicleEF	HHD	4.4900e-004	9.7247e-005
tblVehicleEF	HHD	0.10	4.4987e-006
tblVehicleEF	HHD	0.68	0.02
tblVehicleEF	HHD	0.16	5.0361e-003
tblVehicleEF	HHD	0.08	8.2267e-007
tblVehicleEF	HHD	3.25	5.42
tblVehicleEF	HHD	1.29	0.46
tblVehicleEF	HHD	4.03	0.01
tblVehicleEF	HHD	3,780.54	1,027.42

tblVehicleEF	HHD	1,683.99	1,421.63
tblVehicleEF	HHD	12.64	0.09
tblVehicleEF	HHD	19.16	5.92
tblVehicleEF	HHD	3.89	3.78
tblVehicleEF	HHD	19.27	1.99
tblVehicleEF	HHD	0.02	8.9816e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	1.1600e-004	1.4783e-006
tblVehicleEF	HHD	0.02	8.5930e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6750e-003	8.5162e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	1.0700e-004	1.3593e-006
tblVehicleEF	HHD	1.1700e-004	6.0588e-006
tblVehicleEF	HHD	5.3110e-003	2.7018e-004
tblVehicleEF	HHD	0.61	0.39
tblVehicleEF	HHD	9.0000e-005	4.2977e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	5.0200e-004	1.0547e-004
tblVehicleEF	HHD	0.10	4.3030e-006
tblVehicleEF	HHD	0.03	9.7066e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.9300e-004	8.5821e-007
tblVehicleEF	HHD	1.1700e-004	6.0588e-006
tblVehicleEF	HHD	5.3110e-003	2.7018e-004
tblVehicleEF	HHD	0.73	0.44
tblVehicleEF	HHD	9.0000e-005	4.2977e-006
tblVehicleEF	HHD	0.31	0.12

tblVehicleEF	HHD	5.0200e-004	1.0547e-004
tblVehicleEF	HHD	0.11	4.7113e-006
tblVehicleEF	LDA	4.3340e-003	2.6620e-003
tblVehicleEF	LDA	5.1760e-003	0.05
tblVehicleEF	LDA	0.58	0.68
tblVehicleEF	LDA	1.10	2.11
tblVehicleEF	LDA	263.86	266.12
tblVehicleEF	LDA	58.33	54.35
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	1.9130e-003	1.6720e-003
tblVehicleEF	LDA	2.2790e-003	1.9250e-003
tblVehicleEF	LDA	1.7630e-003	1.5400e-003
tblVehicleEF	LDA	2.0960e-003	1.7700e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.6420e-003	2.6270e-003
tblVehicleEF	LDA	6.0200e-004	5.3700e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.5760e-003	2.8325e-003
tblVehicleEF	LDA	4.6500e-003	0.05

tblVehicleEF	LDA	0.63	0.74
tblVehicleEF	LDA	0.95	1.82
tblVehicleEF	LDA	274.96	277.03
tblVehicleEF	LDA	58.33	53.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.9130e-003	1.6723e-003
tblVehicleEF	LDA	2.2790e-003	1.9248e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.7630e-003	1.5403e-003
tblVehicleEF	LDA	2.0960e-003	1.7699e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.7540e-003	2.7344e-003
tblVehicleEF	LDA	5.9900e-004	5.3128e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.2520e-003	2.6083e-003
tblVehicleEF	LDA	5.2830e-003	0.05

tblVehicleEF	LDA	0.56	0.65
tblVehicleEF	LDA	1.13	2.18
tblVehicleEF	LDA	259.76	262.10
tblVehicleEF	LDA	58.33	54.47
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.9130e-003	1.6723e-003
tblVehicleEF	LDA	2.2790e-003	1.9248e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.7630e-003	1.5403e-003
tblVehicleEF	LDA	2.0960e-003	1.7699e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.6010e-003	2.5869e-003
tblVehicleEF	LDA	6.0200e-004	5.3778e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.26
tblVehicleEF	LDT1	9.9920e-003	6.2080e-003
tblVehicleEF	LDT1	0.01	0.07

tblVehicleEF	LDT1	1.19	1.26
tblVehicleEF	LDT1	2.74	2.32
tblVehicleEF	LDT1	324.21	313.77
tblVehicleEF	LDT1	71.81	65.26
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	2.5570e-003	2.3060e-003
tblVehicleEF	LDT1	3.2780e-003	2.6450e-003
tblVehicleEF	LDT1	2.3530e-003	2.1220e-003
tblVehicleEF	LDT1	3.0150e-003	2.4330e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	3.2560e-003	3.0980e-003
tblVehicleEF	LDT1	7.6600e-004	6.4400e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	0.01	6.5571e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.28	1.36
tblVehicleEF	LDT1	2.36	2.00
tblVehicleEF	LDT1	337.31	324.92
tblVehicleEF	LDT1	71.81	64.62

tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.5570e-003	2.3060e-003
tblVehicleEF	LDT1	3.2780e-003	2.6454e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.3530e-003	2.1217e-003
tblVehicleEF	LDT1	3.0150e-003	2.4325e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.3880e-003	3.2080e-003
tblVehicleEF	LDT1	7.5900e-004	6.3799e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	9.8200e-003	6.0953e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.16	1.22
tblVehicleEF	LDT1	2.82	2.40
tblVehicleEF	LDT1	319.38	309.65
tblVehicleEF	LDT1	71.81	65.40

tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.17	0.27
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.5570e-003	2.3060e-003
tblVehicleEF	LDT1	3.2780e-003	2.6454e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.3530e-003	2.1217e-003
tblVehicleEF	LDT1	3.0150e-003	2.4325e-003
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.18	0.10
tblVehicleEF	LDT1	0.19	0.37
tblVehicleEF	LDT1	3.2070e-003	3.0572e-003
tblVehicleEF	LDT1	7.6700e-004	6.4574e-004
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.10
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT2	5.7840e-003	4.0560e-003
tblVehicleEF	LDT2	6.6620e-003	0.07
tblVehicleEF	LDT2	0.74	0.91
tblVehicleEF	LDT2	1.41	2.69
tblVehicleEF	LDT2	369.26	341.79
tblVehicleEF	LDT2	81.71	71.48

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.29
tblVehicleEF	LDT2	1.8090e-003	1.6370e-003
tblVehicleEF	LDT2	2.1990e-003	1.8210e-003
tblVehicleEF	LDT2	1.6640e-003	1.5060e-003
tblVehicleEF	LDT2	2.0220e-003	1.6740e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	3.6980e-003	3.3740e-003
tblVehicleEF	LDT2	8.4100e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	6.1050e-003	4.3054e-003
tblVehicleEF	LDT2	5.9960e-003	0.06
tblVehicleEF	LDT2	0.80	0.99
tblVehicleEF	LDT2	1.22	2.32
tblVehicleEF	LDT2	384.42	352.81
tblVehicleEF	LDT2	81.71	70.78
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.11	0.27
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003

tblVehicleEF	LDT2	1.8090e-003	1.6369e-003
tblVehicleEF	LDT2	2.1990e-003	1.8210e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6640e-003	1.5065e-003
tblVehicleEF	LDT2	2.0220e-003	1.6744e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.07	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.8500e-003	3.4825e-003
tblVehicleEF	LDT2	8.3800e-004	6.9879e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.07	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	5.6750e-003	3.9776e-003
tblVehicleEF	LDT2	6.7990e-003	0.07
tblVehicleEF	LDT2	0.72	0.88
tblVehicleEF	LDT2	1.45	2.77
tblVehicleEF	LDT2	363.66	337.72
tblVehicleEF	LDT2	81.71	71.63
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.29
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003

tblVehicleEF	LDT2	1.8090e-003	1.6369e-003
tblVehicleEF	LDT2	2.1990e-003	1.8210e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6640e-003	1.5065e-003
tblVehicleEF	LDT2	2.0220e-003	1.6744e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	3.6420e-003	3.3336e-003
tblVehicleEF	LDT2	8.4100e-004	7.0720e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.10	0.36
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tblVehicleEF	LHD1	0.01	5.0100e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.78	0.57
tblVehicleEF	LHD1	2.55	1.09
tblVehicleEF	LHD1	9.03	9.05
tblVehicleEF	LHD1	603.73	667.72
tblVehicleEF	LHD1	33.13	12.41
tblVehicleEF	LHD1	0.08	0.06

tblVehicleEF	LHD1	1.27	0.81
tblVehicleEF	LHD1	1.04	0.34
tblVehicleEF	LHD1	8.6000e-004	7.5600e-004
tblVehicleEF	LHD1	0.01	9.6460e-003
tblVehicleEF	LHD1	0.01	7.2150e-003
tblVehicleEF	LHD1	9.1700e-004	2.5500e-004
tblVehicleEF	LHD1	8.2300e-004	7.2300e-004
tblVehicleEF	LHD1	2.5110e-003	2.4120e-003
tblVehicleEF	LHD1	9.9290e-003	6.8770e-003
tblVehicleEF	LHD1	8.4300e-004	2.3500e-004
tblVehicleEF	LHD1	2.8210e-003	2.2570e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7870e-003	1.4220e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.28	0.17
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.1000e-005	8.8000e-005
tblVehicleEF	LHD1	5.9280e-003	6.5210e-003
tblVehicleEF	LHD1	3.7900e-004	1.2300e-004
tblVehicleEF	LHD1	2.8210e-003	2.2570e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7870e-003	1.4220e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.28	0.17
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.7990e-003	5.8302e-003
tblVehicleEF	LHD1	0.01	5.0977e-003
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.79	0.58
tblVehicleEF	LHD1	2.44	1.04
tblVehicleEF	LHD1	9.03	9.05
tblVehicleEF	LHD1	603.73	667.74
tblVehicleEF	LHD1	33.13	12.33
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.19	0.76
tblVehicleEF	LHD1	1.00	0.33
tblVehicleEF	LHD1	8.6000e-004	7.5586e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6464e-003
tblVehicleEF	LHD1	0.01	7.2149e-003
tblVehicleEF	LHD1	9.1700e-004	2.5532e-004
tblVehicleEF	LHD1	8.2300e-004	7.2316e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5110e-003	2.4116e-003
tblVehicleEF	LHD1	9.9290e-003	6.8769e-003
tblVehicleEF	LHD1	8.4300e-004	2.3476e-004
tblVehicleEF	LHD1	3.9390e-003	3.1604e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4300e-003	1.9450e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.27	0.16
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.1000e-005	8.7939e-005
tblVehicleEF	LHD1	5.9280e-003	6.5214e-003
tblVehicleEF	LHD1	3.7700e-004	1.2203e-004
tblVehicleEF	LHD1	3.9390e-003	3.1604e-003

tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.4300e-003	1.9450e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.27	0.16
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.7990e-003	5.8161e-003
tblVehicleEF	LHD1	0.01	4.9859e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.77	0.57
tblVehicleEF	LHD1	2.56	1.09
tblVehicleEF	LHD1	9.03	9.05
tblVehicleEF	LHD1	603.73	667.72
tblVehicleEF	LHD1	33.13	12.42
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.24	0.80
tblVehicleEF	LHD1	1.05	0.35
tblVehicleEF	LHD1	8.6000e-004	7.5586e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6464e-003
tblVehicleEF	LHD1	0.01	7.2149e-003
tblVehicleEF	LHD1	9.1700e-004	2.5532e-004
tblVehicleEF	LHD1	8.2300e-004	7.2316e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5110e-003	2.4116e-003
tblVehicleEF	LHD1	9.9290e-003	6.8769e-003
tblVehicleEF	LHD1	8.4300e-004	2.3476e-004
tblVehicleEF	LHD1	2.9400e-003	2.3614e-003
tblVehicleEF	LHD1	0.11	0.08

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8110e-003	1.4457e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.18
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.1000e-005	8.7939e-005
tblVehicleEF	LHD1	5.9280e-003	6.5212e-003
tblVehicleEF	LHD1	3.8000e-004	1.2294e-004
tblVehicleEF	LHD1	2.9400e-003	2.3614e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8110e-003	1.4457e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.18
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.2890e-003	4.2530e-003
tblVehicleEF	LHD2	4.2710e-003	3.6630e-003
tblVehicleEF	LHD2	9.4470e-003	0.01
tblVehicleEF	LHD2	0.13	0.16
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	1.38	0.76
tblVehicleEF	LHD2	13.67	13.61
tblVehicleEF	LHD2	619.08	679.10
tblVehicleEF	LHD2	28.46	10.01
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.87	0.94
tblVehicleEF	LHD2	0.60	0.25
tblVehicleEF	LHD2	1.1890e-003	1.1970e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7400e-003	0.01

tblVehicleEF	LHD2	4.6100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1370e-003	1.1460e-003
tblVehicleEF	LHD2	2.6460e-003	2.6120e-003
tblVehicleEF	LHD2	9.3060e-003	9.6640e-003
tblVehicleEF	LHD2	4.2300e-004	1.3700e-004
tblVehicleEF	LHD2	1.1610e-003	1.4570e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7900e-004	9.3400e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.11
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004
tblVehicleEF	LHD2	6.0340e-003	6.5780e-003
tblVehicleEF	LHD2	3.1000e-004	9.9000e-005
tblVehicleEF	LHD2	1.1610e-003	1.4570e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7900e-004	9.3400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.11
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2890e-003	4.2615e-003
tblVehicleEF	LHD2	4.3220e-003	3.7008e-003
tblVehicleEF	LHD2	9.1410e-003	0.01
tblVehicleEF	LHD2	0.13	0.16
tblVehicleEF	LHD2	0.37	0.41
tblVehicleEF	LHD2	1.32	0.73
tblVehicleEF	LHD2	13.67	13.61
tblVehicleEF	LHD2	619.08	679.11

tblVehicleEF	LHD2	28.46	9.96
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.82	0.88
tblVehicleEF	LHD2	0.58	0.24
tblVehicleEF	LHD2	1.1890e-003	1.1974e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7400e-003	0.01
tblVehicleEF	LHD2	4.6100e-004	1.4938e-004
tblVehicleEF	LHD2	1.1370e-003	1.1456e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6460e-003	2.6120e-003
tblVehicleEF	LHD2	9.3060e-003	9.6641e-003
tblVehicleEF	LHD2	4.2300e-004	1.3735e-004
tblVehicleEF	LHD2	1.6270e-003	2.0405e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0610e-003	1.2766e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.08	0.10
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3057e-004
tblVehicleEF	LHD2	6.0340e-003	6.5785e-003
tblVehicleEF	LHD2	3.0900e-004	9.8524e-005
tblVehicleEF	LHD2	1.6270e-003	2.0405e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.0610e-003	1.2766e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.10

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.2890e-003	4.2512e-003
tblVehicleEF	LHD2	4.2570e-003	3.6533e-003
tblVehicleEF	LHD2	9.5090e-003	0.01
tblVehicleEF	LHD2	0.13	0.16
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	1.38	0.76
tblVehicleEF	LHD2	13.67	13.61
tblVehicleEF	LHD2	619.08	679.10
tblVehicleEF	LHD2	28.46	10.02
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.85	0.92
tblVehicleEF	LHD2	0.61	0.25
tblVehicleEF	LHD2	1.1890e-003	1.1974e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7400e-003	0.01
tblVehicleEF	LHD2	4.6100e-004	1.4938e-004
tblVehicleEF	LHD2	1.1370e-003	1.1456e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6460e-003	2.6120e-003
tblVehicleEF	LHD2	9.3060e-003	9.6641e-003
tblVehicleEF	LHD2	4.2300e-004	1.3735e-004
tblVehicleEF	LHD2	1.1810e-003	1.5016e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	9.3294e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.12
tblVehicleEF	LHD2	0.13	0.06

tblVehicleEF	LHD2	1.3400e-004	1.3057e-004
tblVehicleEF	LHD2	6.0340e-003	6.5784e-003
tblVehicleEF	LHD2	3.1000e-004	9.9159e-005
tblVehicleEF	LHD2	1.1810e-003	1.5016e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7800e-004	9.3294e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.10	0.12
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.48	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.61	18.90
tblVehicleEF	MCY	9.56	8.43
tblVehicleEF	MCY	177.57	214.49
tblVehicleEF	MCY	45.30	60.11
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.1370e-003	2.1160e-003
tblVehicleEF	MCY	3.9240e-003	3.2680e-003
tblVehicleEF	MCY	1.9990e-003	1.9800e-003
tblVehicleEF	MCY	3.7000e-003	3.0810e-003
tblVehicleEF	MCY	1.13	1.16
tblVehicleEF	MCY	0.69	0.72
tblVehicleEF	MCY	0.71	0.72
tblVehicleEF	MCY	2.38	2.40
tblVehicleEF	MCY	0.65	0.58
tblVehicleEF	MCY	2.05	1.82
tblVehicleEF	MCY	2.1510e-003	2.1230e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004

tblVehicleEF	MCY	1.13	1.16
tblVehicleEF	MCY	0.69	0.72
tblVehicleEF	MCY	0.71	0.72
tblVehicleEF	MCY	2.95	2.97
tblVehicleEF	MCY	0.65	0.58
tblVehicleEF	MCY	2.24	1.98
tblVehicleEF	MCY	0.47	0.35
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	17.91	18.17
tblVehicleEF	MCY	8.81	7.74
tblVehicleEF	MCY	177.57	213.12
tblVehicleEF	MCY	45.30	58.36
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.1370e-003	2.1162e-003
tblVehicleEF	MCY	3.9240e-003	3.2682e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.9990e-003	1.9796e-003
tblVehicleEF	MCY	3.7000e-003	3.0806e-003
tblVehicleEF	MCY	1.71	1.74
tblVehicleEF	MCY	0.73	0.76
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	2.33	2.34
tblVehicleEF	MCY	0.61	0.54
tblVehicleEF	MCY	1.85	1.62
tblVehicleEF	MCY	2.1380e-003	2.1090e-003
tblVehicleEF	MCY	6.5100e-004	5.7748e-004

tblVehicleEF	MCY	1.71	1.74
tblVehicleEF	MCY	0.73	0.76
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	2.89	2.90
tblVehicleEF	MCY	0.61	0.54
tblVehicleEF	MCY	2.01	1.77
tblVehicleEF	MCY	0.48	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.72	19.01
tblVehicleEF	MCY	9.67	8.55
tblVehicleEF	MCY	177.57	214.70
tblVehicleEF	MCY	45.30	60.42
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.1370e-003	2.1162e-003
tblVehicleEF	MCY	3.9240e-003	3.2682e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.9990e-003	1.9796e-003
tblVehicleEF	MCY	3.7000e-003	3.0806e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.92
tblVehicleEF	MCY	0.75	0.76
tblVehicleEF	MCY	2.39	2.41
tblVehicleEF	MCY	0.75	0.66
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.1530e-003	2.1246e-003
tblVehicleEF	MCY	6.7300e-004	5.9790e-004

tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.92
tblVehicleEF	MCY	0.75	0.76
tblVehicleEF	MCY	2.97	2.98
tblVehicleEF	MCY	0.75	0.66
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	5.6010e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.26	1.12
tblVehicleEF	MDV	2.62	3.12
tblVehicleEF	MDV	500.02	421.68
tblVehicleEF	MDV	108.15	86.92
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.24	0.36
tblVehicleEF	MDV	1.9190e-003	1.7850e-003
tblVehicleEF	MDV	2.3090e-003	1.9840e-003
tblVehicleEF	MDV	1.7700e-003	1.6470e-003
tblVehicleEF	MDV	2.1250e-003	1.8250e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.05
tblVehicleEF	MDV	0.20	0.41
tblVehicleEF	MDV	5.0080e-003	4.1600e-003
tblVehicleEF	MDV	1.1270e-003	8.5800e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.10	0.05
tblVehicleEF	MDV	0.22	0.45
tblVehicleEF	MDV	0.01	5.9079e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.36	1.20
tblVehicleEF	MDV	2.27	2.69
tblVehicleEF	MDV	519.96	433.25
tblVehicleEF	MDV	108.15	86.09
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.23	0.33
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.9190e-003	1.7850e-003
tblVehicleEF	MDV	2.3090e-003	1.9836e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7700e-003	1.6466e-003
tblVehicleEF	MDV	2.1250e-003	1.8249e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.18	0.37
tblVehicleEF	MDV	5.2090e-003	4.2738e-003
tblVehicleEF	MDV	1.1210e-003	8.4999e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.05	0.04

tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.20	0.40
tblVehicleEF	MDV	0.01	5.5001e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.23	1.08
tblVehicleEF	MDV	2.69	3.21
tblVehicleEF	MDV	492.66	417.41
tblVehicleEF	MDV	108.15	87.10
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.25	0.36
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.9190e-003	1.7850e-003
tblVehicleEF	MDV	2.3090e-003	1.9836e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7700e-003	1.6466e-003
tblVehicleEF	MDV	2.1250e-003	1.8249e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.20	0.42
tblVehicleEF	MDV	4.9340e-003	4.1175e-003
tblVehicleEF	MDV	1.1290e-003	8.5994e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.22	0.46
tblVehicleEF	MH	0.03	9.6940e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.15	1.16
tblVehicleEF	MH	5.50	1.98
tblVehicleEF	MH	1,108.90	1,462.99
tblVehicleEF	MH	57.43	18.14
tblVehicleEF	MH	1.43	1.44
tblVehicleEF	MH	0.78	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0490e-003	2.4700e-004
tblVehicleEF	MH	3.2420e-003	3.3030e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.6500e-004	2.2700e-004
tblVehicleEF	MH	0.95	0.80
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7000e-004	1.8000e-004
tblVehicleEF	MH	0.95	0.80
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.35	0.10

tblVehicleEF	MH	0.03	9.8982e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.21	1.19
tblVehicleEF	MH	5.21	1.88
tblVehicleEF	MH	1,108.90	1,463.04
tblVehicleEF	MH	57.43	17.97
tblVehicleEF	MH	1.33	1.35
tblVehicleEF	MH	0.75	0.22
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0490e-003	2.4706e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2420e-003	3.3030e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.6500e-004	2.2717e-004
tblVehicleEF	MH	1.28	1.08
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.56	0.47
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6500e-004	1.7780e-004
tblVehicleEF	MH	1.28	1.08
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.56	0.47
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.34	0.10

tblVehicleEF	MH	0.03	9.6321e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.13	1.16
tblVehicleEF	MH	5.54	2.00
tblVehicleEF	MH	1,108.90	1,462.97
tblVehicleEF	MH	57.43	18.17
tblVehicleEF	MH	1.40	1.41
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0490e-003	2.4706e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2420e-003	3.3030e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.6500e-004	2.2717e-004
tblVehicleEF	MH	1.05	0.88
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.43	0.36
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7100e-004	1.7978e-004
tblVehicleEF	MH	1.05	0.88
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.43	0.36
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.35	0.10

tblVehicleEF	MHD	0.02	4.9130e-003
tblVehicleEF	MHD	4.2090e-003	5.6110e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.36	0.39
tblVehicleEF	MHD	0.33	0.51
tblVehicleEF	MHD	6.12	1.31
tblVehicleEF	MHD	141.40	56.75
tblVehicleEF	MHD	1,144.82	1,086.34
tblVehicleEF	MHD	60.68	12.86
tblVehicleEF	MHD	0.54	0.43
tblVehicleEF	MHD	1.18	1.96
tblVehicleEF	MHD	10.59	1.10
tblVehicleEF	MHD	2.3000e-004	1.4510e-003
tblVehicleEF	MHD	5.5730e-003	0.05
tblVehicleEF	MHD	7.9300e-004	1.1900e-004
tblVehicleEF	MHD	2.2000e-004	1.3880e-003
tblVehicleEF	MHD	5.3290e-003	0.05
tblVehicleEF	MHD	7.2900e-004	1.0900e-004
tblVehicleEF	MHD	1.1360e-003	4.8700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.3800e-004	3.2900e-004
tblVehicleEF	MHD	0.04	0.09
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.3610e-003	5.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1400e-004	1.2700e-004
tblVehicleEF	MHD	1.1360e-003	4.8700e-004
tblVehicleEF	MHD	0.04	0.02

tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.3800e-004	3.2900e-004
tblVehicleEF	MHD	0.05	0.11
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.6515e-003
tblVehicleEF	MHD	4.2610e-003	5.6474e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.26	0.31
tblVehicleEF	MHD	0.34	0.51
tblVehicleEF	MHD	5.83	1.25
tblVehicleEF	MHD	149.77	57.73
tblVehicleEF	MHD	1,144.82	1,086.35
tblVehicleEF	MHD	60.68	12.75
tblVehicleEF	MHD	0.56	0.43
tblVehicleEF	MHD	1.12	1.85
tblVehicleEF	MHD	10.55	1.10
tblVehicleEF	MHD	1.9400e-004	1.2248e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.5730e-003	0.05
tblVehicleEF	MHD	7.9300e-004	1.1907e-004
tblVehicleEF	MHD	1.8500e-004	1.1718e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	5.3290e-003	0.05
tblVehicleEF	MHD	7.2900e-004	1.0948e-004
tblVehicleEF	MHD	1.6040e-003	6.8946e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02

tblVehicleEF	MHD	1.0240e-003	4.5603e-004
tblVehicleEF	MHD	0.04	0.09
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.4400e-003	5.4975e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0900e-004	1.2618e-004
tblVehicleEF	MHD	1.6040e-003	6.8946e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0240e-003	4.5603e-004
tblVehicleEF	MHD	0.05	0.11
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	0.02	5.2905e-003
tblVehicleEF	MHD	4.1930e-003	5.5992e-003
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tblVehicleEF	MHD	0.50	0.50
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tblVehicleEF	MHD	6.17	1.32
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tblVehicleEF	MHD	1,144.82	1,086.34
tblVehicleEF	MHD	60.68	12.88
tblVehicleEF	MHD	0.52	0.42
tblVehicleEF	MHD	1.16	1.92
tblVehicleEF	MHD	10.60	1.10
tblVehicleEF	MHD	2.8000e-004	1.7623e-003
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.5730e-003	0.05

tblVehicleEF	MHD	7.9300e-004	1.1907e-004
tblVehicleEF	MHD	2.6800e-004	1.6861e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	5.3290e-003	0.05
tblVehicleEF	MHD	7.2900e-004	1.0948e-004
tblVehicleEF	MHD	1.1820e-003	4.9850e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.5300e-004	3.3118e-004
tblVehicleEF	MHD	0.04	0.09
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.2520e-003	5.2723e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1500e-004	1.2742e-004
tblVehicleEF	MHD	1.1820e-003	4.9850e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.5300e-004	3.3118e-004
tblVehicleEF	MHD	0.05	0.11
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.42	0.07
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tblVehicleEF	OBUS	8.4360e-003	9.3580e-003
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tblVehicleEF	OBUS	0.28	0.55
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tblVehicleEF	OBUS	84.68	84.33

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tblVehicleEF	OBUS	1.4500e-004	2.0430e-003
tblVehicleEF	OBUS	7.3790e-003	0.04
tblVehicleEF	OBUS	8.3400e-004	1.9500e-004
tblVehicleEF	OBUS	1.3900e-004	1.9550e-003
tblVehicleEF	OBUS	7.0420e-003	0.03
tblVehicleEF	OBUS	7.6700e-004	1.7900e-004
tblVehicleEF	OBUS	1.4250e-003	1.8490e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6500e-004	9.7800e-004
tblVehicleEF	OBUS	0.06	0.10
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	8.2000e-004	8.0300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9600e-004	2.0100e-004
tblVehicleEF	OBUS	1.4250e-003	1.8490e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	7.6500e-004	9.7800e-004
tblVehicleEF	OBUS	0.07	0.12
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.39	0.13
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tblVehicleEF	OBUS	8.5800e-003	9.4940e-003

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tblVehicleEF	OBUS	5.31	2.31
tblVehicleEF	OBUS	88.70	84.93
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tblVehicleEF	OBUS	2.08	0.60
tblVehicleEF	OBUS	1.2200e-004	1.7267e-003
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.3790e-003	0.04
tblVehicleEF	OBUS	8.3400e-004	1.9512e-004
tblVehicleEF	OBUS	1.1700e-004	1.6520e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	7.0420e-003	0.03
tblVehicleEF	OBUS	7.6700e-004	1.7940e-004
tblVehicleEF	OBUS	1.9610e-003	2.5309e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0530e-003	1.3344e-003
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tblVehicleEF	OBUS	0.04	0.06
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tblVehicleEF	OBUS	7.9100e-004	1.9856e-004

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tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.0530e-003	1.3344e-003
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tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.37	0.13
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tblVehicleEF	OBUS	8.3930e-003	9.3186e-003
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tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.3790e-003	0.04
tblVehicleEF	OBUS	8.3400e-004	1.9512e-004
tblVehicleEF	OBUS	1.6900e-004	2.3733e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	7.0420e-003	0.03
tblVehicleEF	OBUS	7.6700e-004	1.7940e-004
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tblVehicleEF	OBUS	0.04	0.06
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tblVehicleEF	OBUS	0.06	0.10
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.36	0.12
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9700e-004	2.0100e-004
tblVehicleEF	OBUS	1.4580e-003	1.9065e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
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tblVehicleEF	SBUS	2.6810e-003	2.6580e-003
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tblVehicleEF	SBUS	0.03	0.04
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tblVehicleEF	SBUS	8.5240e-003	5.1148e-003
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tblVehicleEF	SBUS	2.6810e-003	2.6583e-003
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tblVehicleEF	SBUS	2.6570e-003	7.8537e-004
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tblVehicleEF	SBUS	2.6570e-003	7.8537e-004
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tblVehicleEF	SBUS	2.6810e-003	2.6583e-003
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tblVehicleEF	SBUS	1.8970e-003	5.6828e-004
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tblVehicleEF	SBUS	0.02	0.02

tblVehicleEF	SBUS	0.51	0.04
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tblVehicleEF	SBUS	3.6990e-003	1.1729e-003
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tblVehicleEF	SBUS	1.8970e-003	5.6828e-004
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tblVehicleEF	UBUS	0.04	9.0000e-005
tblVehicleEF	UBUS	1.1810e-003	4.0000e-005
tblVehicleEF	UBUS	0.23	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6500e-004
tblVehicleEF	UBUS	0.04	8.2000e-005
tblVehicleEF	UBUS	1.0860e-003	3.6000e-005
tblVehicleEF	UBUS	6.1570e-003	2.6630e-003
tblVehicleEF	UBUS	0.10	0.03
tblVehicleEF	UBUS	3.6270e-003	1.8540e-003

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tblVehicleEF	UBUS	0.03	7.5400e-003
tblVehicleEF	UBUS	0.96	0.15
tblVehicleEF	UBUS	8.6430e-003	4.3420e-003
tblVehicleEF	UBUS	1.5700e-003	2.2500e-004
tblVehicleEF	UBUS	6.1570e-003	2.6630e-003
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tblVehicleEF	UBUS	3.6270e-003	1.8540e-003
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tblVehicleEF	UBUS	4.53	0.07
tblVehicleEF	UBUS	13.42	0.23
tblVehicleEF	UBUS	0.53	0.02
tblVehicleEF	UBUS	0.01	2.2582e-003
tblVehicleEF	UBUS	0.04	8.9719e-005
tblVehicleEF	UBUS	1.1810e-003	3.9679e-005
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tblVehicleEF	UBUS	3.0000e-003	5.6454e-004
tblVehicleEF	UBUS	0.04	8.2493e-005
tblVehicleEF	UBUS	1.0860e-003	3.6483e-005
tblVehicleEF	UBUS	8.2530e-003	3.6376e-003
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tblVehicleEF	UBUS	4.8310e-003	2.4726e-003

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tblVehicleEF	UBUS	0.03	6.8077e-003
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tblVehicleEF	UBUS	1,828.32	438.73
tblVehicleEF	UBUS	133.38	22.82
tblVehicleEF	UBUS	4.73	0.08
tblVehicleEF	UBUS	13.51	0.24
tblVehicleEF	UBUS	0.53	0.02
tblVehicleEF	UBUS	0.01	2.2582e-003
tblVehicleEF	UBUS	0.04	8.9719e-005
tblVehicleEF	UBUS	1.1810e-003	3.9679e-005
tblVehicleEF	UBUS	0.23	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6454e-004
tblVehicleEF	UBUS	0.04	8.2493e-005
tblVehicleEF	UBUS	1.0860e-003	3.6483e-005
tblVehicleEF	UBUS	6.9610e-003	2.5391e-003
tblVehicleEF	UBUS	0.12	0.03
tblVehicleEF	UBUS	3.8300e-003	1.7546e-003

tblVehicleEF	UBUS	0.52	4.2496e-003
tblVehicleEF	UBUS	0.04	9.2002e-003
tblVehicleEF	UBUS	0.98	0.15
tblVehicleEF	UBUS	8.6430e-003	4.3416e-003
tblVehicleEF	UBUS	1.5750e-003	2.2584e-004
tblVehicleEF	UBUS	6.9610e-003	2.5391e-003
tblVehicleEF	UBUS	0.12	0.03
tblVehicleEF	UBUS	3.8300e-003	1.7546e-003
tblVehicleEF	UBUS	2.52	6.2010e-003
tblVehicleEF	UBUS	0.04	9.2002e-003
tblVehicleEF	UBUS	1.07	0.16
tblVehicleTrips	ST_TR	2.46	1.63
tblVehicleTrips	SU_TR	1.05	0.54
tblVehicleTrips	WD_TR	11.03	7.23
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	9,834,008.28	3,256,611.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2358	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5200e-003	4.5200e-003	1.0000e-005	0.0000	4.8200e-003
Energy	3.2300e-003	0.0294	0.0247	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003	0.0000	277.3919	277.3919	0.0140	3.3600e-003	278.7424
Mobile	0.1003	0.2645	1.2455	3.8300e-003	0.3692	4.6200e-003	0.3738	0.0987	4.3500e-003	0.1031	0.0000	355.6601	355.6601	0.0139	0.0000	356.0073
Waste						0.0000	0.0000		0.0000	0.0000	10.4459	0.0000	10.4459	0.6173	0.0000	25.8793
Water						0.0000	0.0000		0.0000	0.0000	1.1522	26.3638	27.5160	5.4000e-003	2.8000e-003	28.4865
Total	**0.3393**	**0.2939**	**1.2725**	**4.0100e-003**	**0.3692**	**6.8600e-003**	**0.3761**	**0.0987**	**6.5900e-003**	**0.1053**	**11.5981**	**659.4203**	**671.0184**	**0.6506**	**6.1600e-003**	**689.1204**

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	0.2358	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5200e-003	4.5200e-003	1.0000e-005	0.0000	4.8200e-003
Energy	3.2300e-003	0.0294	0.0247	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003	0.0000	277.3919	277.3919	0.0140	3.3600e-003	278.7424
Mobile	0.1003	0.2645	1.2455	3.8300e-003	0.3692	4.6200e-003	0.3738	0.0987	4.3500e-003	0.1031	0.0000	355.6601	355.6601	0.0139	0.0000	356.0073
Waste						0.0000	0.0000		0.0000	0.0000	10.4459	0.0000	10.4459	0.6173	0.0000	25.8793
Water						0.0000	0.0000		0.0000	0.0000	1.1522	26.3638	27.5160	5.4000e-003	2.8000e-003	28.4865
Total	**0.3393**	**0.2939**	**1.2725**	**4.0100e-003**	**0.3692**	**6.8600e-003**	**0.3761**	**0.0987**	**6.5900e-003**	**0.1053**	**11.5981**	**659.4203**	**671.0184**	**0.6506**	**6.1600e-003**	**689.1204**

	ROG	NOx	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**

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	0.1003	0.2645	1.2455	3.8300e-003	0.3692	4.6200e-003	0.3738	0.0987	4.3500e-003	0.1031	0.0000	355.6601	355.6601	0.0139	0.0000	356.0073
Unmitigated	0.1003	0.2645	1.2455	3.8300e-003	0.3692	4.6200e-003	0.3738	0.0987	4.3500e-003	0.1031	0.0000	355.6601	355.6601	0.0139	0.0000	356.0073

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	400.04	90.19	29.88	975,755	975,755
Parking Lot	0.00	0.00	0.00		
Total	400.04	90.19	29.88	975,755	975,755

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	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 Office Building	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Parking Lot	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966

5.0 Energy Detail

Historical Energy Use: Y

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	245.4139	245.4139	0.0134	2.7700e-003	246.5744
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	245.4139	245.4139	0.0134	2.7700e-003	246.5744
NaturalGas Mitigated	3.2300e-003	0.0294	0.0247	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003	0.0000	31.9780	31.9780	6.1000e-004	5.9000e-004	32.1681
NaturalGas Unmitigated	3.2300e-003	0.0294	0.0247	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003	0.0000	31.9780	31.9780	6.1000e-004	5.9000e-004	32.1681

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	599246	3.2300e-003	0.0294	0.0247	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003	0.0000	31.9780	31.9780	6.1000e-004	5.9000e-004	32.1681
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.2300e-003**	**0.0294**	**0.0247**	**1.8000e-004**		**2.2300e-003**	**2.2300e-003**		**2.2300e-003**	**2.2300e-003**	**0.0000**	**31.9780**	**31.9780**	**6.1000e-004**	**5.9000e-004**	**32.1681**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	599246	3.2300e-003	0.0294	0.0247	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003	0.0000	31.9780	31.9780	6.1000e-004	5.9000e-004	32.1681
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.2300e-003**	**0.0294**	**0.0247**	**1.8000e-004**		**2.2300e-003**	**2.2300e-003**		**2.2300e-003**	**2.2300e-003**	**0.0000**	**31.9780**	**31.9780**	**6.1000e-004**	**5.9000e-004**	**32.1681**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	906338	218.4793	0.0119	2.4700e-003	219.5124
Parking Lot	111735	26.9346	1.4700e-003	3.0000e-004	27.0620
Total		**245.4139**	**0.0134**	**2.7700e-003**	**246.5744**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	906338	218.4793	0.0119	2.4700e-003	219.5124
Parking Lot	111735	26.9346	1.4700e-003	3.0000e-004	27.0620
Total		**245.4139**	**0.0134**	**2.7700e-003**	**246.5744**

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	0.2358	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5200e-003	4.5200e-003	1.0000e-005	0.0000	4.8200e-003
Unmitigated	0.2358	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5200e-003	4.5200e-003	1.0000e-005	0.0000	4.8200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0274					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5200e-003	4.5200e-003	1.0000e-005	0.0000	4.8200e-003
Total	**0.2358**	**2.0000e-005**	**2.3400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.5200e-003**	**4.5200e-003**	**1.0000e-005**	**0.0000**	**4.8200e-003**

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	0.0274					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5200e-003	4.5200e-003	1.0000e-005	0.0000	4.8200e-003
Total	**0.2358**	**2.0000e-005**	**2.3400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.5200e-003**	**4.5200e-003**	**1.0000e-005**	**0.0000**	**4.8200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.5160	5.4000e-003	2.8000e-003	28.4865
Unmitigated	27.5160	5.4000e-003	2.8000e-003	28.4865

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.25661 / 6.0273	27.5160	5.4000e-003	2.8000e-003	28.4865
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**27.5160**	**5.4000e-003**	**2.8000e-003**	**28.4865**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.25661 / 6.0273	27.5160	5.4000e-003	2.8000e-003	28.4865
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**27.5160**	**5.4000e-003**	**2.8000e-003**	**28.4865**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.4459	0.6173	0.0000	25.8793
Unmitigated	10.4459	0.6173	0.0000	25.8793

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	51.46	10.4459	0.6173	0.0000	25.8793
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**10.4459**	**0.6173**	**0.0000**	**25.8793**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	51.46	10.4459	0.6173	0.0000	25.8793
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**10.4459**	**0.6173**	**0.0000**	**25.8793**

The Hub Fullerton Baseline Conditions (2024)

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	55.33	1000sqft	0.64	55,332.00	0
Parking Lot	126.97	1000sqft	2.91	126,972.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE Sustainability Report

Land Use - buildings onsite are 2 stories tall

Construction Phase -

Vehicle Trips - based on info from F&P

Vehicle Emission Factors - EMFAC2017 adjustment

Energy Use -

Water And Wastewater - based on sewer study, assumes 100% aerobic treatment

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	55,330.00	55,332.00
tblLandUse	LandUseSquareFeet	126,970.00	126,972.00
tblLandUse	LotAcreage	1.27	0.64
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleEF	HHD	0.44	0.03
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	0.06	7.2464e-007
tblVehicleEF	HHD	1.47	6.07
tblVehicleEF	HHD	1.26	0.64
tblVehicleEF	HHD	4.25	0.01
tblVehicleEF	HHD	3,818.18	1,012.56
tblVehicleEF	HHD	1,584.91	1,373.65
tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	12.98	5.26
tblVehicleEF	HHD	1.77	2.42
tblVehicleEF	HHD	19.03	2.48
tblVehicleEF	HHD	0.01	2.9540e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0902e-006
tblVehicleEF	HHD	0.01	2.8262e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6690e-003	8.7624e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0024e-006
tblVehicleEF	HHD	1.1600e-004	3.6710e-006

tblVehicleEF	HHD	4.7330e-003	1.5602e-004
tblVehicleEF	HHD	0.35	0.40
tblVehicleEF	HHD	8.9000e-005	2.6353e-006
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	4.2800e-004	6.2785e-005
tblVehicleEF	HHD	0.09	3.7937e-006
tblVehicleEF	HHD	0.03	9.2462e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0800e-004	7.6681e-007
tblVehicleEF	HHD	1.1600e-004	3.6710e-006
tblVehicleEF	HHD	4.7330e-003	1.5602e-004
tblVehicleEF	HHD	0.43	0.47
tblVehicleEF	HHD	8.9000e-005	2.6353e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	4.2800e-004	6.2785e-005
tblVehicleEF	HHD	0.09	4.1536e-006
tblVehicleEF	HHD	0.42	0.03
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	0.06	6.9601e-007
tblVehicleEF	HHD	1.07	5.98
tblVehicleEF	HHD	1.27	0.64
tblVehicleEF	HHD	4.05	9.6241e-003
tblVehicleEF	HHD	4,045.03	1,001.49
tblVehicleEF	HHD	1,584.91	1,373.65
tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	13.40	5.04
tblVehicleEF	HHD	1.67	2.30
tblVehicleEF	HHD	19.02	2.48
tblVehicleEF	HHD	9.0000e-003	2.5700e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0902e-006
tblVehicleEF	HHD	8.6100e-003	2.4588e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6690e-003	8.7624e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0024e-006
tblVehicleEF	HHD	1.6500e-004	5.3617e-006
tblVehicleEF	HHD	4.8270e-003	1.5842e-004
tblVehicleEF	HHD	0.33	0.43
tblVehicleEF	HHD	1.2300e-004	3.8527e-006
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	4.1200e-004	6.1486e-005
tblVehicleEF	HHD	0.08	3.6535e-006
tblVehicleEF	HHD	0.04	9.1421e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0400e-004	7.5937e-007
tblVehicleEF	HHD	1.6500e-004	5.3617e-006
tblVehicleEF	HHD	4.8270e-003	1.5842e-004
tblVehicleEF	HHD	0.41	0.50
tblVehicleEF	HHD	1.2300e-004	3.8527e-006
tblVehicleEF	HHD	0.26	0.17
tblVehicleEF	HHD	4.1200e-004	6.1486e-005
tblVehicleEF	HHD	0.09	4.0001e-006
tblVehicleEF	HHD	0.48	0.02
tblVehicleEF	HHD	0.16	8.8830e-004
tblVehicleEF	HHD	0.06	7.3145e-007

tblVehicleEF	HHD	2.03	6.01
tblVehicleEF	HHD	1.26	0.21
tblVehicleEF	HHD	4.29	0.01
tblVehicleEF	HHD	3,504.93	993.90
tblVehicleEF	HHD	1,584.91	1,270.38
tblVehicleEF	HHD	13.84	0.08
tblVehicleEF	HHD	12.41	5.37
tblVehicleEF	HHD	1.74	2.32
tblVehicleEF	HHD	19.03	2.48
tblVehicleEF	HHD	0.01	3.1443e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	6.0110e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0902e-006
tblVehicleEF	HHD	0.01	3.0082e-003
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6690e-003	8.4791e-003
tblVehicleEF	HHD	5.7510e-003	0.02
tblVehicleEF	HHD	1.2100e-004	1.0024e-006
tblVehicleEF	HHD	1.1300e-004	3.7860e-006
tblVehicleEF	HHD	5.0410e-003	1.7191e-004
tblVehicleEF	HHD	0.38	0.37
tblVehicleEF	HHD	8.9000e-005	2.7313e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.6700e-004	6.7157e-005
tblVehicleEF	HHD	0.09	3.8262e-006
tblVehicleEF	HHD	0.03	9.3899e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0800e-004	7.6824e-007

tblVehicleEF	HHD	1.1300e-004	3.7860e-006
tblVehicleEF	HHD	5.0410e-003	1.7191e-004
tblVehicleEF	HHD	0.46	0.42
tblVehicleEF	HHD	8.9000e-005	2.7313e-006
tblVehicleEF	HHD	0.25	0.02
tblVehicleEF	HHD	4.6700e-004	6.7157e-005
tblVehicleEF	HHD	0.09	4.1892e-006
tblVehicleEF	LDA	3.2540e-003	1.8161e-003
tblVehicleEF	LDA	3.5200e-003	0.04
tblVehicleEF	LDA	0.48	0.55
tblVehicleEF	LDA	0.84	1.93
tblVehicleEF	LDA	231.86	246.35
tblVehicleEF	LDA	51.83	50.40
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.15
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.8000e-003	1.4317e-003
tblVehicleEF	LDA	2.2330e-003	1.6847e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.6580e-003	1.3182e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.1920e-003	6.5890e-003
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.05	0.17

tblVehicleEF	LDA	2.3210e-003	2.3879e-003
tblVehicleEF	LDA	5.3200e-004	4.8864e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.5744e-003
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4390e-003	1.9350e-003
tblVehicleEF	LDA	3.1700e-003	0.04
tblVehicleEF	LDA	0.52	0.60
tblVehicleEF	LDA	0.73	1.66
tblVehicleEF	LDA	241.58	256.41
tblVehicleEF	LDA	51.83	49.92
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.8000e-003	1.4317e-003
tblVehicleEF	LDA	2.2330e-003	1.6847e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.6580e-003	1.3182e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	8.6510e-003	6.9574e-003
tblVehicleEF	LDA	0.03	0.02

tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	2.4190e-003	2.4854e-003
tblVehicleEF	LDA	5.3000e-004	4.8395e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.1920e-003	1.7787e-003
tblVehicleEF	LDA	3.5920e-003	0.04
tblVehicleEF	LDA	0.47	0.53
tblVehicleEF	LDA	0.87	1.98
tblVehicleEF	LDA	228.27	242.64
tblVehicleEF	LDA	51.83	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.16
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.8000e-003	1.4317e-003
tblVehicleEF	LDA	2.2330e-003	1.6847e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.6580e-003	1.3182e-003
tblVehicleEF	LDA	2.0530e-003	1.5490e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.0370e-003	6.4651e-003

tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2850e-003	2.3519e-003
tblVehicleEF	LDA	5.3300e-004	4.8966e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.3936e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDT1	7.2360e-003	4.1472e-003
tblVehicleEF	LDT1	9.9520e-003	0.06
tblVehicleEF	LDT1	0.92	0.93
tblVehicleEF	LDT1	2.03	2.10
tblVehicleEF	LDT1	292.62	293.91
tblVehicleEF	LDT1	65.95	61.09
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.2960e-003	1.8512e-003
tblVehicleEF	LDT1	2.9420e-003	2.1801e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0045e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09

tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.13	0.27
tblVehicleEF	LDT1	2.9360e-003	2.8494e-003
tblVehicleEF	LDT1	6.9500e-004	5.9228e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.07
tblVehicleEF	LDT1	0.15	0.29
tblVehicleEF	LDT1	7.6070e-003	4.3889e-003
tblVehicleEF	LDT1	8.9270e-003	0.05
tblVehicleEF	LDT1	0.99	1.01
tblVehicleEF	LDT1	1.75	1.81
tblVehicleEF	LDT1	304.46	304.24
tblVehicleEF	LDT1	65.95	60.53
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.11	0.20
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.2960e-003	1.8512e-003
tblVehicleEF	LDT1	2.9420e-003	2.1801e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0045e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16

tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	3.0550e-003	2.9496e-003
tblVehicleEF	LDT1	6.9000e-004	5.8685e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.22	0.16
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.13	0.06
tblVehicleEF	LDT1	0.13	0.26
tblVehicleEF	LDT1	7.1090e-003	4.0701e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	0.89	0.90
tblVehicleEF	LDT1	2.09	2.16
tblVehicleEF	LDT1	288.25	290.09
tblVehicleEF	LDT1	65.95	61.21
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.2960e-003	1.8512e-003
tblVehicleEF	LDT1	2.9420e-003	2.1801e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.1130e-003	1.7030e-003
tblVehicleEF	LDT1	2.7050e-003	2.0045e-003
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.14	0.27
tblVehicleEF	LDT1	2.8920e-003	2.8125e-003
tblVehicleEF	LDT1	6.9600e-004	5.9347e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.24	0.17
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.15	0.30
tblVehicleEF	LDT2	4.5940e-003	2.9810e-003
tblVehicleEF	LDT2	4.8100e-003	0.06
tblVehicleEF	LDT2	0.64	0.74
tblVehicleEF	LDT2	1.11	2.45
tblVehicleEF	LDT2	329.48	312.71
tblVehicleEF	LDT2	73.66	65.44
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.08	0.22
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8470e-003	1.4663e-003
tblVehicleEF	LDT2	2.3090e-003	1.6633e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6990e-003	1.3496e-003
tblVehicleEF	LDT2	2.1230e-003	1.5293e-003

tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	3.2990e-003	3.0312e-003
tblVehicleEF	LDT2	7.5500e-004	6.3446e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.07	0.27
tblVehicleEF	LDT2	4.8530e-003	3.1673e-003
tblVehicleEF	LDT2	4.3330e-003	0.05
tblVehicleEF	LDT2	0.69	0.80
tblVehicleEF	LDT2	0.96	2.11
tblVehicleEF	LDT2	342.98	322.65
tblVehicleEF	LDT2	73.66	64.81
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.07	0.21
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8470e-003	1.4663e-003
tblVehicleEF	LDT2	2.3090e-003	1.6633e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6990e-003	1.3496e-003

tblVehicleEF	LDT2	2.1230e-003	1.5293e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.23
tblVehicleEF	LDT2	3.4350e-003	3.1277e-003
tblVehicleEF	LDT2	7.5200e-004	6.2837e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.25
tblVehicleEF	LDT2	4.5070e-003	2.9223e-003
tblVehicleEF	LDT2	4.9080e-003	0.06
tblVehicleEF	LDT2	0.62	0.72
tblVehicleEF	LDT2	1.14	2.52
tblVehicleEF	LDT2	324.49	309.04
tblVehicleEF	LDT2	73.66	65.58
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.08	0.23
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8470e-003	1.4663e-003
tblVehicleEF	LDT2	2.3090e-003	1.6633e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.6990e-003	1.3496e-003
tblVehicleEF	LDT2	2.1230e-003	1.5293e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.2490e-003	2.9956e-003
tblVehicleEF	LDT2	7.5500e-004	6.3580e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LHD1	4.8760e-003	5.1794e-003
tblVehicleEF	LHD1	7.3850e-003	3.6571e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.42
tblVehicleEF	LHD1	2.05	0.96
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.39
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.97	0.58
tblVehicleEF	LHD1	0.88	0.30
tblVehicleEF	LHD1	8.7700e-004	8.3837e-004

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8001e-003
tblVehicleEF	LHD1	9.4650e-003	6.3814e-003
tblVehicleEF	LHD1	7.7100e-004	2.2183e-004
tblVehicleEF	LHD1	8.3900e-004	8.0210e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0816e-003
tblVehicleEF	LHD1	7.0900e-004	2.0396e-004
tblVehicleEF	LHD1	2.4720e-003	1.8824e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6210e-003	1.2383e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6064e-005
tblVehicleEF	LHD1	5.7060e-003	6.1793e-003
tblVehicleEF	LHD1	3.3900e-004	1.1274e-004
tblVehicleEF	LHD1	2.4720e-003	1.8824e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6210e-003	1.2383e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.26	0.15
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8760e-003	5.1900e-003
tblVehicleEF	LHD1	7.5120e-003	3.7121e-003
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.59	0.42
tblVehicleEF	LHD1	1.97	0.92
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.59
tblVehicleEF	LHD1	30.08	11.32
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.92	0.55
tblVehicleEF	LHD1	0.84	0.28
tblVehicleEF	LHD1	8.7700e-004	8.3837e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8001e-003
tblVehicleEF	LHD1	9.4650e-003	6.3814e-003
tblVehicleEF	LHD1	7.7100e-004	2.2183e-004
tblVehicleEF	LHD1	8.3900e-004	8.0210e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0816e-003
tblVehicleEF	LHD1	7.0900e-004	2.0396e-004
tblVehicleEF	LHD1	3.4440e-003	2.6308e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.20	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6064e-005
tblVehicleEF	LHD1	5.7070e-003	6.1794e-003
tblVehicleEF	LHD1	3.3800e-004	1.1206e-004

tblVehicleEF	LHD1	3.4440e-003	2.6308e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.1800e-003	1.6730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.25	0.14
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	4.8760e-003	5.1774e-003
tblVehicleEF	LHD1	7.3500e-003	3.6424e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.58	0.41
tblVehicleEF	LHD1	2.06	0.97
tblVehicleEF	LHD1	9.05	8.87
tblVehicleEF	LHD1	582.71	633.58
tblVehicleEF	LHD1	30.08	11.40
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.96	0.57
tblVehicleEF	LHD1	0.89	0.30
tblVehicleEF	LHD1	8.7700e-004	8.3837e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8001e-003
tblVehicleEF	LHD1	9.4650e-003	6.3814e-003
tblVehicleEF	LHD1	7.7100e-004	2.2183e-004
tblVehicleEF	LHD1	8.3900e-004	8.0210e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5630e-003	2.4500e-003
tblVehicleEF	LHD1	9.0360e-003	6.0816e-003
tblVehicleEF	LHD1	7.0900e-004	2.0396e-004

tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6290e-003	1.2475e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.0000e-005	8.6064e-005
tblVehicleEF	LHD1	5.7060e-003	6.1793e-003
tblVehicleEF	LHD1	3.4000e-004	1.1284e-004
tblVehicleEF	LHD1	2.5350e-003	1.9320e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6290e-003	1.2475e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.29	0.16
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.5130e-003	3.7116e-003
tblVehicleEF	LHD2	3.0250e-003	2.8566e-003
tblVehicleEF	LHD2	6.4370e-003	9.0455e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.94
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.66
tblVehicleEF	LHD2	0.47	0.21

tblVehicleEF	LHD2	1.1390e-003	1.2802e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2248e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6730e-003	2.6459e-003
tblVehicleEF	LHD2	7.9990e-003	9.1749e-003
tblVehicleEF	LHD2	3.6300e-004	1.1769e-004
tblVehicleEF	LHD2	9.0300e-004	1.2059e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2254e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2895e-004
tblVehicleEF	LHD2	5.8410e-003	6.2136e-003
tblVehicleEF	LHD2	2.7900e-004	8.8512e-005
tblVehicleEF	LHD2	9.0300e-004	1.2059e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.4300e-004	8.2254e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.09
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7192e-003
tblVehicleEF	LHD2	3.0530e-003	2.8803e-003

tblVehicleEF	LHD2	6.2440e-003	8.7613e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.06	0.62
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.40
tblVehicleEF	LHD2	25.96	8.90
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.62
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.1390e-003	1.2802e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2248e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6730e-003	2.6459e-003
tblVehicleEF	LHD2	7.9990e-003	9.1749e-003
tblVehicleEF	LHD2	3.6300e-004	1.1769e-004
tblVehicleEF	LHD2	1.2670e-003	1.6887e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1135e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2895e-004
tblVehicleEF	LHD2	5.8410e-003	6.2136e-003

tblVehicleEF	LHD2	2.7900e-004	8.8056e-005
tblVehicleEF	LHD2	1.2670e-003	1.6887e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.6800e-004	1.1135e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.5130e-003	3.7102e-003
tblVehicleEF	LHD2	3.0170e-003	2.8503e-003
tblVehicleEF	LHD2	6.4770e-003	9.1039e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.27	0.31
tblVehicleEF	LHD2	1.11	0.65
tblVehicleEF	LHD2	13.66	13.46
tblVehicleEF	LHD2	600.10	642.39
tblVehicleEF	LHD2	25.96	8.95
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.65
tblVehicleEF	LHD2	0.47	0.21
tblVehicleEF	LHD2	1.1390e-003	1.2802e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3740e-003	9.6040e-003
tblVehicleEF	LHD2	3.9500e-004	1.2800e-004
tblVehicleEF	LHD2	1.0900e-003	1.2248e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6730e-003	2.6459e-003
tblVehicleEF	LHD2	7.9990e-003	9.1749e-003

tblVehicleEF	LHD2	3.6300e-004	1.1769e-004
tblVehicleEF	LHD2	8.9600e-004	1.2115e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1351e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2895e-004
tblVehicleEF	LHD2	5.8410e-003	6.2136e-003
tblVehicleEF	LHD2	2.8000e-004	8.8585e-005
tblVehicleEF	LHD2	8.9600e-004	1.2115e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.1351e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.07	0.10
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.95	18.16
tblVehicleEF	MCY	9.61	8.50
tblVehicleEF	MCY	178.67	214.64
tblVehicleEF	MCY	44.17	59.14
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.2470e-003	2.2317e-003

tblVehicleEF	MCY	3.4860e-003	2.9927e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.0980e-003	2.0841e-003
tblVehicleEF	MCY	3.2740e-003	2.8105e-003
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68
tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.34	2.35
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.02	1.79
tblVehicleEF	MCY	2.1510e-003	2.1241e-003
tblVehicleEF	MCY	6.5800e-004	5.8528e-004
tblVehicleEF	MCY	1.12	1.15
tblVehicleEF	MCY	0.65	0.68
tblVehicleEF	MCY	0.69	0.70
tblVehicleEF	MCY	2.92	2.93
tblVehicleEF	MCY	0.60	0.53
tblVehicleEF	MCY	2.20	1.95
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.31	17.50
tblVehicleEF	MCY	8.84	7.78
tblVehicleEF	MCY	178.67	213.41
tblVehicleEF	MCY	44.17	57.38
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003

tblVehicleEF	MCY	2.2470e-003	2.2317e-003
tblVehicleEF	MCY	3.4860e-003	2.9927e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.0980e-003	2.0841e-003
tblVehicleEF	MCY	3.2740e-003	2.8105e-003
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.29	2.30
tblVehicleEF	MCY	0.56	0.50
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.1390e-003	2.1119e-003
tblVehicleEF	MCY	6.3900e-004	5.6781e-004
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	2.85	2.86
tblVehicleEF	MCY	0.56	0.50
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.04	18.25
tblVehicleEF	MCY	9.73	8.62
tblVehicleEF	MCY	178.67	214.83
tblVehicleEF	MCY	44.17	59.46
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01

tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.2470e-003	2.2317e-003
tblVehicleEF	MCY	3.4860e-003	2.9927e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.0980e-003	2.0841e-003
tblVehicleEF	MCY	3.2740e-003	2.8105e-003
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.35	2.36
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.1520e-003	2.1259e-003
tblVehicleEF	MCY	6.6100e-004	5.8841e-004
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.84	0.87
tblVehicleEF	MCY	0.73	0.74
tblVehicleEF	MCY	2.93	2.94
tblVehicleEF	MCY	0.69	0.62
tblVehicleEF	MCY	2.24	1.99
tblVehicleEF	MDV	8.2720e-003	3.7207e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	0.96	0.83
tblVehicleEF	MDV	1.95	2.70
tblVehicleEF	MDV	450.89	387.66
tblVehicleEF	MDV	98.57	79.61
tblVehicleEF	MDV	0.10	0.07
tblVehicleEF	MDV	0.17	0.27

tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8710e-003	1.5464e-003
tblVehicleEF	MDV	2.2680e-003	1.7228e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.4259e-003
tblVehicleEF	MDV	2.0860e-003	1.5841e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	4.5120e-003	3.7561e-003
tblVehicleEF	MDV	1.0190e-003	7.7184e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.15	0.34
tblVehicleEF	MDV	8.7240e-003	3.9512e-003
tblVehicleEF	MDV	9.3780e-003	0.06
tblVehicleEF	MDV	1.04	0.90
tblVehicleEF	MDV	1.69	2.32
tblVehicleEF	MDV	468.83	397.99
tblVehicleEF	MDV	98.57	78.90
tblVehicleEF	MDV	0.09	0.06

tblVehicleEF	MDV	0.16	0.25
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8710e-003	1.5464e-003
tblVehicleEF	MDV	2.2680e-003	1.7228e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.4259e-003
tblVehicleEF	MDV	2.0860e-003	1.5841e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.13	0.28
tblVehicleEF	MDV	4.6930e-003	3.8563e-003
tblVehicleEF	MDV	1.0150e-003	7.6496e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.05
tblVehicleEF	MDV	0.14	0.31
tblVehicleEF	MDV	8.1180e-003	3.6475e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	0.93	0.80
tblVehicleEF	MDV	2.00	2.78
tblVehicleEF	MDV	444.26	383.84
tblVehicleEF	MDV	98.57	79.77

tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.17	0.28
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8710e-003	1.5464e-003
tblVehicleEF	MDV	2.2680e-003	1.7228e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7240e-003	1.4259e-003
tblVehicleEF	MDV	2.0860e-003	1.5841e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.14	0.32
tblVehicleEF	MDV	4.4460e-003	3.7191e-003
tblVehicleEF	MDV	1.0200e-003	7.7334e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.06
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MH	0.02	6.9351e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.27	0.73
tblVehicleEF	MH	4.43	1.75
tblVehicleEF	MH	1,096.02	1,403.51

tblVehicleEF	MH	56.63	16.91
tblVehicleEF	MH	1.16	1.27
tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1646e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2400e-003	3.3089e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9902e-004
tblVehicleEF	MH	0.74	0.62
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.4300e-004	1.6731e-004
tblVehicleEF	MH	0.74	0.62
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.33	0.28
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.02	7.0675e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.30	0.74
tblVehicleEF	MH	4.20	1.66

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tblVehicleEF	MH	56.63	16.76
tblVehicleEF	MH	1.08	1.19
tblVehicleEF	MH	0.65	0.22
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1646e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2400e-003	3.3089e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9902e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.02	9.8866e-003
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.3900e-004	1.6581e-004
tblVehicleEF	MH	0.99	0.83
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	9.8866e-003
tblVehicleEF	MH	0.27	0.08
tblVehicleEF	MH	0.02	6.8954e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.26	0.72

tblVehicleEF	MH	4.46	1.77
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tblVehicleEF	MH	0.68	0.23
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.0200e-004	2.1646e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2400e-003	3.3089e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	8.2900e-004	1.9902e-004
tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29
tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.26	0.08
tblVehicleEF	MH	0.01	0.01
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tblVehicleEF	MH	0.80	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.34	0.29
tblVehicleEF	MH	0.08	0.06
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tblVehicleEF	MH	0.29	0.09
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tblVehicleEF	MHD	2.6820e-003	5.7808e-003
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tblVehicleEF	MHD	6.5100e-004	3.4122e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.05
tblVehicleEF	MHD	1.3800e-003	5.0126e-004
tblVehicleEF	MHD	0.01	9.4997e-003

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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.6820e-003	5.7808e-003

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tblVehicleEF	MHD	0.02	0.02
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.28	0.05
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tblVehicleEF	MHD	1.3170e-003	6.6100e-004
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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.8900e-004	4.6414e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.29	0.06
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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	8.9600e-004	2.0231e-004
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tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.05
tblVehicleEF	SBUS	0.01	3.3160e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.3200e-004	6.6167e-005
tblVehicleEF	SBUS	3.3080e-003	1.1236e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.47	0.57
tblVehicleEF	SBUS	1.9200e-003	6.4214e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02

tblVehicleEF	SBUS	0.51	0.05
tblVehicleEF	UBUS	1.60	1.2913e-003
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.75	0.07
tblVehicleEF	UBUS	12.30	1.81
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.36
tblVehicleEF	UBUS	3.61	0.05
tblVehicleEF	UBUS	13.00	0.18
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2582e-003
tblVehicleEF	UBUS	0.03	3.6033e-004
tblVehicleEF	UBUS	1.3330e-003	1.7046e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6454e-004
tblVehicleEF	UBUS	0.03	3.3131e-004
tblVehicleEF	UBUS	1.2250e-003	1.5673e-004
tblVehicleEF	UBUS	5.7880e-003	1.1457e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3833e-004
tblVehicleEF	UBUS	0.41	4.2705e-003
tblVehicleEF	UBUS	0.03	2.7282e-003
tblVehicleEF	UBUS	0.94	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8193e-003
tblVehicleEF	UBUS	1.6040e-003	2.0144e-004
tblVehicleEF	UBUS	5.7880e-003	1.1457e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	3.5780e-003	7.3833e-004
tblVehicleEF	UBUS	2.05	6.2315e-003

tblVehicleEF	UBUS	0.03	2.7282e-003
tblVehicleEF	UBUS	1.03	0.12
tblVehicleEF	UBUS	1.60	1.3189e-003
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	7.80	0.07
tblVehicleEF	UBUS	10.86	1.61
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.00
tblVehicleEF	UBUS	3.38	0.04
tblVehicleEF	UBUS	12.93	0.17
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2582e-003
tblVehicleEF	UBUS	0.03	3.6033e-004
tblVehicleEF	UBUS	1.3330e-003	1.7046e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6454e-004
tblVehicleEF	UBUS	0.03	3.3131e-004
tblVehicleEF	UBUS	1.2250e-003	1.5673e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0195e-003
tblVehicleEF	UBUS	0.41	4.3522e-003
tblVehicleEF	UBUS	0.03	2.4623e-003
tblVehicleEF	UBUS	0.87	0.10
tblVehicleEF	UBUS	8.5530e-003	3.8193e-003
tblVehicleEF	UBUS	1.5790e-003	1.9796e-004
tblVehicleEF	UBUS	7.7730e-003	1.5810e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.7590e-003	1.0195e-003

tblVehicleEF	UBUS	2.06	6.3508e-003
tblVehicleEF	UBUS	0.03	2.4623e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	1.60	1.2849e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	7.74	0.06
tblVehicleEF	UBUS	12.55	1.85
tblVehicleEF	UBUS	1,792.86	385.95
tblVehicleEF	UBUS	138.24	20.42
tblVehicleEF	UBUS	3.54	0.05
tblVehicleEF	UBUS	13.02	0.18
tblVehicleEF	UBUS	0.52	0.02
tblVehicleEF	UBUS	0.01	2.2582e-003
tblVehicleEF	UBUS	0.03	3.6033e-004
tblVehicleEF	UBUS	1.3330e-003	1.7046e-004
tblVehicleEF	UBUS	0.22	0.01
tblVehicleEF	UBUS	3.0000e-003	5.6454e-004
tblVehicleEF	UBUS	0.03	3.3131e-004
tblVehicleEF	UBUS	1.2250e-003	1.5673e-004
tblVehicleEF	UBUS	6.4170e-003	1.1578e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.7120e-003	7.1632e-004
tblVehicleEF	UBUS	0.40	4.2510e-003
tblVehicleEF	UBUS	0.04	3.3316e-003
tblVehicleEF	UBUS	0.96	0.11
tblVehicleEF	UBUS	8.5520e-003	3.8193e-003
tblVehicleEF	UBUS	1.6080e-003	2.0207e-004
tblVehicleEF	UBUS	6.4170e-003	1.1578e-003
tblVehicleEF	UBUS	0.11	0.01

tblVehicleEF	UBUS	3.7120e-003	7.1632e-004
tblVehicleEF	UBUS	2.05	6.2030e-003
tblVehicleEF	UBUS	0.04	3.3316e-003
tblVehicleEF	UBUS	1.05	0.12
tblVehicleTrips	ST_TR	2.46	1.63
tblVehicleTrips	SU_TR	1.05	0.54
tblVehicleTrips	WD_TR	11.03	7.23
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	9,834,008.28	3,256,611.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2925	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Energy	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
Mobile	0.5973	1.2369	7.6292	0.0260	2.7279	0.0175	2.7455	0.7286	0.0163	0.7449		2,703.7466	2,703.7466	0.0906		2,706.0117
Total	**1.9075**	**1.3980**	**7.7830**	**0.0270**	**2.7279**	**0.0298**	**2.7578**	**0.7286**	**0.0286**	**0.7572**		**2,896.9357**	**2,896.9357**	**0.0944**	**3.5400e-003**	**2,900.3512**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2925	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Energy	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
Mobile	0.5973	1.2369	7.6292	0.0260	2.7279	0.0175	2.7455	0.7286	0.0163	0.7449		2,703.7466	2,703.7466	0.0906		2,706.0117
Total	**1.9075**	**1.3980**	**7.7830**	**0.0270**	**2.7279**	**0.0298**	**2.7578**	**0.7286**	**0.0286**	**0.7572**		**2,896.9357**	**2,896.9357**	**0.0944**	**3.5400e-003**	**2,900.3512**

	ROG	NOx	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**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5973	1.2369	7.6292	0.0260	2.7279	0.0175	2.7455	0.7286	0.0163	0.7449		2,703.7466	2,703.7466	0.0906		2,706.0117
Unmitigated	0.5973	1.2369	7.6292	0.0260	2.7279	0.0175	2.7455	0.7286	0.0163	0.7449		2,703.7466	2,703.7466	0.0906		2,706.0117

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	400.04	90.19	29.88	975,755	975,755
Parking Lot	0.00	0.00	0.00		
Total	400.04	90.19	29.88	975,755	975,755

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	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 Office Building	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Parking Lot	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
NaturalGas Unmitigated	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1641.77	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0177**	**0.1610**	**0.1352**	**9.7000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**		**193.1493**	**193.1493**	**3.7000e-003**	**3.5400e-003**	**194.2970**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1.64177	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1493	193.1493	3.7000e-003	3.5400e-003	194.2970
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0177**	**0.1610**	**0.1352**	**9.7000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**		**193.1493**	**193.1493**	**3.7000e-003**	**3.5400e-003**	**194.2970**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2925	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Unmitigated	1.2925	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Total	**1.2925**	**1.7000e-004**	**0.0186**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0399**	**0.0399**	**1.0000e-004**		**0.0425**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0186	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0399	0.0399	1.0000e-004		0.0425
Total	**1.2925**	**1.7000e-004**	**0.0186**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0399**	**0.0399**	**1.0000e-004**		**0.0425**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste