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 Site with temperature data is the Pasadena Monitoring Station (ID 046719). The average low is reported at 42.6 °F in January, and the average high is 89.2 °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 averages 20.24 inches per year in the vicinity of the 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 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 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 2023a).

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 2023a).

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 2023a).

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 2023a).[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 2023a).

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 2023a). 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.

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[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.

2022 AQMP

On October 1, 2015, the EPA strengthened the National AAQS for ground-level ozone, lowering the primary and secondary ozone standard levels to 70 parts per billion (ppb) from 75 ppb. The SoCAB is classified as an "extreme" nonattainment area for the 2015 National AAQS for ozone. Consequently, South Coast AQMD Governing Board adopted the 2022 AQMP in December 2022 to address the requirements for meeting this standard. The 2022 AQMP builds upon measures already in place from previous AQMPs. It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., zero emission technologies, when cost-effective and feasible, and low NO_X technologies in other applications), best management practices, co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and other CAA measures to achieve the 2015 8-hour ozone standard. The 2015 8-hour ozone standard is the most stringent standard to date. Because current ozone levels in the SoCAB are so high, meeting the standard will require substantial emission reductions above and beyond current programs. South Coast AQMD forecasts that emissions of NO_X—the key pollutant controlling formation of ozone—must be reduced by 67 percent beyond what we would achieve through current programs by 2037 to meet the standard. By year 2037, 46 percent of NO_X emissions will come from federal sources, 33 percent will come from State-regulated sources, and only 20 percent will come from sources regulated by the South Coast AQMD (South Coast AQMD 2022).

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, *Attainment Status of Criteria Pollutants in the South Coast Air Basin*.

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

Pollutant	State	Federal
Ozone – 1-hour	Extreme Nonattainment	No Federal Standard
Ozone – 8-hour	Extreme Nonattainment	Extreme Nonattainment
PM_{10}	Serious Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment[2]
CO	Attainment	Attainment
NO_2	Nonattainment (SR-60 Near Road only)[1]	Attainment (Maintenance)
SO_2	Attainment	Attainment
Lead	Attainment	Nonattainment (Los Angeles County only)[3]
All others	Attainment/Unclassified	Attainment/Unclassified

Source: CARB 2023a.

1 On February 21, 2019, CARB's Board approved the separation of the area that runs along State Route 60 corridor through portions of Riverside, San Bernardino, and Los Angeles counties from the remainder of the SoCAB for state nonattainment designation purposes. The Board designated this corridor as nonattainment. The remainder of the SoCAB remains in attainment for NO_2 (CARB 2019a). CARB is proposing to redesignate SR-60 Near-Road Portion of San Bernardino, Riverside, and Los Angeles Counties in the SoCAB as attainment for NO_2 at the February 24, 2022 Board Hearing (CARB 2023b). This redesignation will not be official until the Office of Administrative Law (OAL) approves the rulemaking filed with the Secretary of State, expected in the fall of 2022 (South Coast AQMD 2022).

2 The SoCAB is pending a resignation request from nonattainment to attainment for the 24-hour federal $PM_{2.5}$ standards. The *2021* $PM_{2.5}$ *Redesignation Request and Maintenance Plan* demonstrates that the South Coast meets the requirements of the CAA to allow US EPA to redesignate the SoCAB to attainment for the 65 µg/m^3 and 35 µg/m^3 24-hour $PM_{2.5}$ standards. CARB has reviewed and adopted submit the 2021 $PM_{2.5}$ Redesignation Request and Maintenance Plan to the US EPA as a revision to the California State Implementation Plan (SIP) (CARB 2021b).

3 In 2010, the Los Angeles portion of the SoCAB was designated nonattainment for lead under the new 2008 federal AAQS as a result of large industrial emitters. Remaining areas for lead in the SoCAB are unclassified. However, lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011 (South Coast AQMD 2012). CARB's SIP revision was submitted to the EPA for approval.

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 Project Site is located within Source Receptor Area (SRA) 8 – West San Gabriel Valley. The air quality monitoring station closest to the Project is the Pasadena – S Wilson Avenue Monitoring Station, which is one of 31 monitoring stations South Coast AQMD operates and maintains in the SoCAB.[7] Data from this station includes O_3, NO_x, and $PM_{2.5}$ and is summarized in Table 3, *Ambient Air Quality Monitoring Summary*. Data for PM_{10} is supplemented by the Los Angeles – North Main Street Monitoring Station. The most current five years of data from these monitoring stations are included in Table 3 and show regular violations of the state and federal O_3, state PM_{10} standards, and federal $PM_{2.5}$ standards in the last five years.

7 Locations of the SRAs and monitoring stations are shown here: http://www.aqmd.gov/docs/default-source/default-document-library/map-of-monitoring-areas.pdf.

Table 3 Ambient Air Quality Monitoring Summary

Pollutant/Standard	Number of Days Threshold Were Exceeded and Maximum Levels during Such Violations				
	2016	2017	2018	2019	2020
Ozone (O_3)[1]					
State 1-Hour ≥ 0.09 ppm (days exceed threshold)	12	18	8	11	41
State & Federal 8-hour ≥ 0.070 ppm (days exceed threshold)	18	36	19	24	60
Max. 1-Hour Conc. (ppm)	0.126	0.139	0.112	0.120	0.163
Max. 8-Hour Conc. (ppm)	0.090	0.100	0.090	0.098	0.115
Nitrogen Dioxide (NO_2)[1]					
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)	0.0719	0.0723	0.0682	0.0591	0.0612
Coarse Particulates (PM_{10})[2]					
State 24-Hour > 50 µg/m^3 (days exceed threshold)	21	40	31	15	34
Federal 24-Hour > 150 µg/m^3 (days exceed threshold)	0	0	0	0	0
Max. 24-Hour Conc. (µg/m^3)	74.6	96.2	81.2	93.9	185.2
Fine Particulates ($PM_{2.5}$)[1]					
Federal 24-Hour > 35 µg/m^3 (days exceed threshold)	0	0	0	1	2
Max. 24-Hour Conc. (µg/m^3)	29.2	22.8	32.5	41.8	67.7

Source: CARB 2021a.

Notes: ppm = parts per million; ppb = parts per billion; µg/m^3 = micrograms per cubic meter; * = Data not available

[1] Data obtained from the Pasadena – S Wilson Avenue Monitoring Station for O_3, NO_x, and $PM_{2.5}$.

[2] Data obtained from the Los Angeles – North Main Street Monitoring Station for PM_{10}.

[3] Most recent data available as of September 2021.

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 are the residences along Wotkyns Drive to the east of the Project Site.

Methodology

Projected construction-related air pollutant emissions are calculated using the California Emissions Estimator Model (CalEEMod), Version 2020.4. 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, *South Coast AQMD Significance Thresholds*, 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 hotspot 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, *South Coast AQMD Localized Significance Thresholds*.

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.

[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.

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 8 are shown in Table 6, *Screening-Level Construction Localized Significance Thresholds,* for sensitive receptors within 82 feet (25 meters) of the Project Site for NO_x and CO emissions and 250 feet (76 meters) for PM_{10} and $PM_{2.5}$.

Table 6 Screening-Level Construction Localized Significance Thresholds (Driving Range)

	Threshold (lbs/day)[1]			
Acreage Disturbed	Nitrogen Oxides (NO_X)	Carbon Monoxide (CO)	Coarse Particulates (PM_{10})	Fine Particulates ($PM_{2.5}$)
≤1.00 Acres Disturbed Per Day	69	535	19.38	5.57
3.50 Acres Disturbed Per Day	123	1,176	36.12	9.36
4.00 Acres Disturbed Per Day	131	1,297	39.21	10.11

Source: South Coast AQMD 2008a and 2011.

[1] LSTs are based on sensitive receptors within 82 feet (25 meters) of the Project Site in Source Receptor Area (SRA) 8 for NO_x and CO emissions and 250 feet (76 meters) for PM_{10} and $PM_{2.5}$.

Because the Project is not an industrial project that has the potential to emit substantial 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. CEQA does not require CEQA-level environmental document to analyze the environmental effects of attracting development and people to an area (*California Building Industry Association v. Bay Area Air Quality Management District (2015) 62 Cal.4th 369 (Case No. S213478)*). 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,[9] 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).[10] The major GHG are briefly described below.

- **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

[9] 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.

[10] 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 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.

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 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, *GHG Emissions and Their Relative Global Warming Potential Compared to CO_2*. 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 (SAR) Global Warming Potential Relative to CO_2[1]	Fourth Assessment Report (AR4) Global Warming Potential Relative to CO_2[1]	Fifth Assessment Report (AR5) Global Warming Potential Relative to CO_2[1]
Carbon Dioxide (CO_2)	1	1	1
Methane[2] (CH_4)	21	25	28
Nitrous Oxide (N_2O)	310	298	265

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.[11] 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 2020).

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 2020).

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

[11] 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 2019b). Additionally, the Biden Administration issued an Executive Order on January 21, 2021 to review and suspend the SAFE rule and for the USEPA to present a proposal for more stringent fuel economy and emissions standards by July 2021. On August 5, 2021, the Biden Administration proposed new standards that would replace the SAFE Rule, effectively reversing the previous Trump Administration's roll-back of the CAFE standards.

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 rescinded the Clean Power Plan (CPP) 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. However, on January 2019, 2021, the US Court of Appeals for the District of Columbia Circuit (DC Circuit) struck down the ACE rule in its ruling under *American Lung Association v. Environmental Protection Agency*, No. 19-1140, *(D.C. Cir. 2021)*. The DC Circuit court held that the ACE rule was inconsistent with Section 111 of the Clean Air Act in that Section 111 does not limit emissions control measures to be performed at the source only. The ruling also vacated the repeal of CCP rule that resulted from issuance of the ACE rule.

REGULATION OF GHG EMISSIONS ON A STATE LEVEL

Current State of California guidance and goals for reductions in GHG emissions are generally embodied in EO S-03-05 and EO B-30-15, Assembly Bill 32 (AB 32), AB 1279, Senate Bill 32 (SB 32), and 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)

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 prepared the 2008 Scoping Plan to outline a plan to achieve the GHG emissions reduction targets of AB 32.

Executive Order B-30-15

Executive Order B-30-15, signed April 29, 2015, set a goal of reducing GHG emissions in the state to 40 percent of 1990 levels by year 2030. Executive Order B-30-15 also directed 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 outlined potential regulations and programs, including strategies consistent with AB 197 requirements, to achieve the 2030 target. The 2017 Scoping Plan established 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 2017b).

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 2017 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, *2017 Climate Change Scoping Plan Emissions Reductions Gap*. 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
With Known Commitments	320
2030 GHG Target	**260**
Gap to 2030 Target	**60**

Source: CARB 2017b.

Table 10, *2017 Climate Change Scoping Plan Emissions Change by Sector*, 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%**

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

Source: CARB 2017b.
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.

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.

2022 Climate Change Scoping Plan

CARB adopted the 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) on December 15, 2022, which lays out a path to achieve carbon neutrality by 2045 or earlier and to reduce the State's anthropogenic GHG emissions (CARB 2022). The Scoping Plan was updated to address the carbon neutrality goals of EO B-55-18 (discussed below) and the ambitious GHG reduction target as directed by AB 1279. Previous Scoping Plans focused on specific GHG reduction targets for our industrial, energy, and transportation sectors—to meet 1990 levels by 2020, and then the more aggressive 40 percent below that for the 2030 target. This plan expands upon earlier Scoping Plans with a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. Carbon neutrality takes it one step further by expanding actions to capture and store carbon including through natural and working lands and mechanical technologies, while drastically reducing anthropogenic sources of carbon pollution at the same time.

The path forward was informed by the recent Sixth Assessment Report (AR6) of the IPCC and the measures would achieve 85 percent below 1990 levels by 2045 in accordance AB 1279. CARB's 2022 Scoping Plan identifies strategies as shown in Table 11, *Priority Strategies for Local Government Climate Action Plans*, that would be most impactful at the local level for ensuring substantial process towards the State's carbon neutrality goals (see Table 4.8-4, *Priority Strategies for Local Government Climate Action Plans*).

Table 11 Priority Strategies for Local Government Climate Action Plans

Priority Area	Priority Strategies
Transportation Electrification	Convert local government fleets to zero-emission vehicles (ZEV) and provide EV charging at public sites.
	Create a jurisdiction-specific ZEV ecosystem to support deployment of ZEVs statewide (such as building standards that exceed state building codes, permit streamlining, infrastructure siting, consumer education, preferential parking policies, and ZEV readiness plans).
VMT Reduction	Reduce or eliminate minimum parking standards.

Table 11 Priority Strategies for Local Government Climate Action Plans

Priority Area	Priority Strategies
	Implement Complete Streets policies and investments, consistent with general plan circulation element requirements.
	Increase access to public transit by increasing density of development near transit, improving transit service by increasing service frequency, creating bus priority lanes, reducing or eliminating fares, microtransit, etc.
	Increase public access to clean mobility options by planning for and investing in electric shuttles, bike share, car share, and walking.
	Implement parking pricing or transportation demand management pricing strategies.
	Amend zoning or development codes to enable mixed-use, walkable, transit-oriented, and compact infill development (such as increasing allowable density of the neighborhood).
	Preserve natural and working lands by implementing land use policies that guide development toward infill areas and do not convert "greenfield" land to urban uses (e.g., green belts, strategic conservation easements)
Building Decarbonization	Adopt all-electric new construction reach codes for residential and commercial uses.
	Adopt policies and incentive programs to implement energy efficiency retrofits for existing buildings, such as weatherization, lighting upgrades, and replacing energy-intensive appliances and equipment with more efficient systems (such as Energy Star-rated equipment and equipment controllers).
	Adopt policies and incentive programs to electrify all appliances and equipment in existing buildings such as appliance rebates, existing building reach codes, or time of sale electrification ordinances
	Facilitate deployment of renewable energy production and distribution and energy storage on privately owned land uses (e.g., permit streamlining, information sharing)
	Deploy renewable energy production and energy storage directly in new public projects and on existing public facilities (e.g., solar photovoltaic systems on rooftops of municipal buildings and on canopies in public parking lots, battery storage systems in municipal buildings).

Source: CARB 2022

For residential and mixed-use development projects, CARB recommends this first approach to demonstrate that these land use development projects are aligned with State climate goals based on the attributes of land use development that reduce operational GHG emissions while simultaneously advancing fair housing. Attributes that accommodate growth in a manner consistent with the GHG and equity goals of SB 32 have all the following attributes:

Transportation Electrification

- Provide EV charging infrastructure that, at a minimum, meets the most ambitious voluntary standards in the California Green Building Standards Code at the time of project approval.

VMT Reduction

- Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer).

- Does not result in the loss or conversion of the State's natural and working lands;

- Consists of transit-supportive densities (minimum of 20 residential dwelling units/acre), or is in proximity to existing transit stops (within a half mile), or satisfies more detailed and stringent criteria specified in the region's Sustainable Communities Strategy (SCS);
- Reduces parking requirements by:
    - Eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); or
    - Providing residential parking supply at a ratio of <1 parking space per dwelling unit; or
    - For multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit.
- At least 20 percent of the units are affordable to lower-income residents;
- Result in no net loss of existing affordable units.

Building Decarbonization

- Use all electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking.

The second approach to project-level alignment with State climate goals is net zero GHG emissions, especially for new residential development. The third approach to demonstrating project-level alignment with State climate goals is to align with GHG thresholds of significance, which many local air quality management (AQMDs) and air pollution control districts (APCDs) have developed or adopted (CARB 2022).

Assembly Bill 1279

On August 31, 2022, the California Legislature passed AB 1279, which requires California to achieve net-zero GHG emissions no later than 2045 and to achieve and maintain negative GHG emissions thereafter. Additionally, AB 1279 also establishes a GHG emissions reduction goal of 85 percent below 1990 levels by 2045. CARB will be required to update the scoping plan to identify and recommend measures to achieve the net-zero and GHG emissions-reduction goals.

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 (MPO). 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 is 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 compared 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, translates into proposed targets that either match or exceed the emission reduction levels in the MPOs' currently adopted sustainable communities strategies (SCS). 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 2020-2045 RTP/SCS (Connect SoCal) was adopted on September 3, 2020, and is an update to the 2016-2040 RTP/SCS. 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 (SCAG 2020).

Transportation Sector Specific Regulations

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 is 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 years 2017 through 2025 light-duty vehicles. (See also the discussion on the update to the Corporate Average Fuel Economy standards at the beginning of this Section 5.5.2 under "Federal.") 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 GHGs with requirements for greater numbers of ZE vehicles into a single package of standards. Under California's Advanced Clean Car program, by 2025 new automobiles will emit 34 percent less GHG emissions and 75 percent less 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 CO_2e gram per unit of fuel energy sold in California. The LCFS required 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 uses market-based mechanisms to allow these providers to choose how they reduce emissions during the "fuel cycle" using the most economically feasible methods.

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 ZE vehicles in major metropolitan areas, including infrastructure to support them (e.g., electric vehicle charging stations). The executive order also directed the number of ZE 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

ZE by 2015 and at least 25 percent by 2020. The executive order also establishes a target for the transportation sector of reducing GHG emissions to 80 percent below 1990 levels.

Executive Order N-79-20

On September 23, 2020, Governor Newsom signed Executive Order N-79-20, whose goal is that 100 percent of in-state sales of new passenger cars and trucks will be ZE by 2035. Additionally, the fleet goals for trucks are that 100 percent of drayage trucks are ZE by 2035, and 100 percent of medium- and heavy-duty vehicles in the state are ZE by 2045, where feasible. The Executive Order's goal for the State is to transition to 100 percent ZE off-road vehicles and equipment by 2035, where feasible.

Renewables Portfolio: Carbon Neutrality Regulations

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

A major component of California's Renewable Energy Program is the renewables portfolio standard 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, signed in November 2008, 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 September 2015 and establishes tiered increases to the RPS—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. Under SB 100, the RPS for public-owned facilities and retail sellers consist of 44 percent renewable energy by 2024, 52 percent by 2027, and 60 percent by 2030. SB 100 also established a new RPS requirement of 50 percent by 2026. Furthermore, the bill establishes an overall 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.

Energy Efficiency Regulations

California Building Code: Building Energy Efficiency Standards

Energy conservation standards for new residential and nonresidential 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 starting January 1, 2020. The 2019 standards move toward cutting energy use in new homes by more than 50 percent and require installation of solar photovoltaic systems for single-family homes and multifamily buildings of three stories and less. The 2019 standards focus on four key areas: 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 are 30 percent more energy efficient compared to the 2016 standards, and single-family homes are 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).

The CEC is currently amending the Building and Energy Efficiency Standards. The 2022 Building and Energy Efficiency Standards are anticipated to be adopted in December 2021 and will go into effect on January 1, 2023.

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.[12] The mandatory provisions of CALGreen became effective January 1, 2011, and were last updated in 2019. The 2019 CALGreen standards became effective January 1, 2020.

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.

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

Solid Waste Diversion Regulations

AB 939: Integrated Waste Management Act of 1989

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

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 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.

AB 1327

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.

AB 1826

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 and multifamily residential dwellings with 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 with food waste.

Water Efficiency Regulations

SBX7-7

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 required 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.

AB 1881: Water Conservation in Landscaping Act

The Water Conservation in Landscaping Act of 2006 (AB 1881) requires local agencies to adopt the updated DWR model ordinance or an 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.

Short-Lived Climate Pollutant Reduction Strategy

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 methane. Black carbon is the light-absorbing component of fine particulate matter produced during incomplete combustion of fuels. SB 1383 required the state board, no later than January 1, 2018, to approve and begin implementing a 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. The bill also established targets for reducing organic waste in landfills. On March 14, 2017, CARB adopted the 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 2017a). In-use on-road rules were expected to reduce black carbon emissions from on-road sources by 80 percent between 2000 and 2020.

Local Regulations

City of Pasadena Climate Action Plan

The City of Pasadena prepared a Climate Action Plan (CAP) to establish a framework for evaluating and mitigating GHG emissions by providing an emissions inventory, emissions reduction goals, and strategies for reducing emissions (Pasadena 2018). The Pasadena Climate Action Plan identifies a reduction target for the City to reduce GHG emissions to 15 percent below 2009 emissions for 2020, 49 percent below for 2030, 59 percent below for 2035, and 83 percent below for 2050. In addition, the purpose of the CAP is to analyze GHG emissions at a programmatic-level, outline a strategy to reduce and mitigate municipal and community-wide GHG emissions, demonstrate Pasadena's commitment to achieving the state-wide emissions reduction targets, and serve as a qualified GHG reduction plan consistent with the California Environmental Quality Act (CEQA) Guidelines Section 15183.5. The CAP includes five emissions reduction strategies for sustainable mobility and land use, energy efficiency and conservation, water conservation, and solid waste reduction, and urban greening.

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.[13]

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,

[13] 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.

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.[14] 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.

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.

[14] 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. https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en.

California Air Pollution Control Officers Association (CAPCOA). 2021. California Emissions Estimator Model (CalEEMod). Version 2020.4. 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. https://www.arb.ca.gov/toxics/finalreport.pdf

———. 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. https://ww2.arb.ca.gov/sites/default/files/classic//cc/scopingplan/document/psp.pdf.

———. 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/board/res/2010/res10-31.pdf.

———. 2016, October 1. Ambient Air Quality Standards. https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf.

———. 2017a, March 14. Final Proposed Short-Lived Climate Pollutant Reduction Strategy. https://ww2.arb.ca.gov/sites/default/files/2018-12/final_slcp_report%20Final%202017.pdf.

———. 2017b, 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.

———. 2019a, February 21. Final Statement of Reasons for Rulemaking, Including Summary of Comments and Agency Response. Public Hearing to Consider the Proposed 2018 Amendment to Area Designations for State Ambient Air Quality Standards. https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2019/statereadesignations/fsor.pdf?_ga=2.56310120.293950539.1643666080-480168846.1633624542.

———. 2019b, July 25. 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.

———. 2020. 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.

———. 2021a, September 10 (accessed). Air Pollution Data Monitoring Cards (2016, 2017, 2018, 2019, and 2020). http://www.arb.ca.gov/adam/topfour/topfour1.php.

———. 2021b, December 9. Staff Report, CARB Review of the South Coast 2021 Redesignation Request and Maintenance Plan. https://ww2.arb.ca.gov/sites/default/files/2021-10/Staff_Report_for_the_South_Coast_PM2.5_Redesignation_Request_and_Maintenance_Plan.pdf.

_____. 2022. 2022 Scoping Plan for Achieving Carbon Neutrality, https://ww2.arb.ca.gov/sites/default/files/2022-12/2022-sp.pdf, accessed December 7, 2022.

———. 2023a, January (accessed). Maps of State and Federal Area Designations. https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations.

———. 2023b, January 12 (accessed). February 24-2, 2022, Board Meeting Agenda. https://ww2.arb.ca.gov/ma022422.

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.

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.

Pasadena, City of. 2018, March 5. Pasadena Climate Action Plan. https://www.cityofpasadena.net/planning/wp-content/uploads/sites/30/Final-Pasadena-Climate-Action-Plan_3.5.2018.pdf?v=1632935580716.

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

———. 1993. California Environmental Quality Act Air Quality Handbook. http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993).

———. 2003. 2003 Air Quality Management Plan. Appendix V. https://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp

———. 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. http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf?sfvrsn=2.

———. 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/docs/default-source/air-quality/air-toxic-studies/mates-iv/mates-iv-final-draft-report-4-1-15.pdf?sfvrsn=7.

———. 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/docs/default-source/Agendas/aqmp/white-paper-working-groups/wp-blueprint-final.pdf?sfvrsn=2.

———. 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.

———. 2022, December. South Coast AQMD 2022 Air Quality Management Plan (AQMP). https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2022-air-quality-management-plan/final-2022-aqmp/final-2022-aqmp.pdf?sfvrsn=10.

Southern California Association of Governments (SCAG). 2020, September 3. 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, September 23 (accessed). Period of Record Monthly Climate Summary, 01/01/1893 to 06/10/2016. Pasadena, California, Station (ID # 046719). Western US Climate Summaries. https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6719.

Emissions Worksheet

Regional Construction Emissions Worksheet (Driving Range):

Demolition							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Winter**						
	Off-Road	2.64	25.72	20.59	0.04	1.24	1.16
	Total	**2.64**	**25.72**	**20.59**	**0.04**	**1.24**	**1.16**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.20	0.07	0.00	0.03	0.01
	Worker	0.06	0.04	0.54	0.00	0.16	0.04
	Total	**0.06**	**0.25**	**0.61**	**0.00**	**0.18**	**0.05**
TOTAL		***2.70***	***25.97***	***21.21***	***0.04***	***1.42***	***1.21***
Onsite	**2022**						
	Off-Road	2.64	25.72	20.59	0.04	1.24	1.16
	Total	**2.64**	**25.72**	**20.59**	**0.04**	**1.24**	**1.16**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.20	0.07	0.00	0.03	0.01
	Worker	0.06	0.04	0.54	0.00	0.16	0.04
	Total	**0.06**	**0.25**	**0.61**	**0.00**	**0.18**	**0.05**
TOTAL		***2.70***	***25.97***	***21.21***	***0.04***	***1.42***	***1.21***

Site Preparation							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Winter						
	Fugitive Dust					8.40	4.32
	Off-Road	3.17	33.08	19.70	0.04	1.61	1.48
	Total	**3.17**	**33.08**	**19.70**	**0.04**	**10.02**	**5.80**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.20	0.07	0.00	0.03	0.01
	Worker	0.07	0.05	0.65	0.00	0.19	0.05
	Total	**0.07**	**0.25**	**0.72**	**0.00**	**0.21**	**0.06**
TOTAL		***3.24***	***33.34***	***20.42***	***0.04***	***10.23***	***5.86***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	3.17	33.08	19.70	0.04	1.61	1.48
	Total	**3.17**	**33.08**	**19.70**	**0.04**	**10.02**	**5.80**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.20	0.07	0.00	0.03	0.01
	Worker	0.07	0.05	0.65	0.00	0.19	0.05
	Total	**0.07**	**0.25**	**0.72**	**0.00**	**0.21**	**0.06**
TOTAL		***3.24***	***33.34***	***20.42***	***0.04***	***10.23***	***5.86***

Grading

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Fugitive Dust						3.93	1.56
	Off-Road		3.62	38.84	29.04	0.06	1.63	1.50
	Total		**3.62**	**38.84**	**29.04**	**0.06**	**5.57**	**3.07**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.20	0.07	0.00	0.03	0.01
	Worker		0.07	0.06	0.72	0.00	0.21	0.06
	Total		**0.08**	**0.26**	**0.79**	**0.00**	**0.23**	**0.07**
TOTAL			***3.71***	***39.10***	***29.83***	***0.06***	***5.80***	***3.13***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road		3.62	38.84	29.04	0.06	1.63	1.50
	Total		**3.62**	**38.84**	**29.04**	**0.06**	**5.57**	**3.07**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.20	0.07	0.00	0.03	0.01
	Worker		0.07	0.06	0.72	0.00	0.21	0.06
	Total		**0.08**	**0.26**	**0.79**	**0.00**	**0.23**	**0.07**
TOTAL			***3.71***	***39.10***	***29.83***	***0.06***	***5.80***	***3.13***

Trenching

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Winter**						
	Off-Road		0.73	6.76	5.20	0.01	0.48	0.44
	Total		**0.73**	**6.76**	**5.20**	**0.01**	**0.48**	**0.44**
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	0.18	0.00	0.05	0.01
	Total		**0.02**	**0.01**	**0.18**	**0.00**	**0.05**	**0.01**
TOTAL			***0.75***	***6.77***	***5.38***	***0.01***	***0.53***	***0.45***
Onsite		**2022**						
	Off-Road		0.73	6.76	5.20	0.01	0.48	0.44
	Total		**0.73**	**6.76**	**5.20**	**0.01**	**0.48**	**0.44**
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	0.18	0.00	0.05	0.01
	Total		**0.02**	**0.01**	**0.18**	**0.00**	**0.05**	**0.01**
TOTAL			***0.75***	***6.77***	***5.38***	***0.01***	***0.53***	***0.45***

Fencing

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Winter**						
	Off-Road		0.75	6.59	5.31	0.01	0.29	0.28
	Total		**0.75**	**6.59**	**5.31**	**0.01**	**0.29**	**0.28**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.15	0.05	0.00	0.02	0.01
	Worker		0.03	0.02	0.29	0.00	0.08	0.02
	Total		**0.04**	**0.18**	**0.34**	**0.00**	**0.10**	**0.03**
TOTAL			***0.78***	***6.77***	***5.65***	***0.01***	***0.40***	***0.31***
Onsite		**2022**						
	Off-Road		0.75	6.59	5.31	0.01	0.29	0.28
	Total		**0.75**	**6.59**	**5.31**	**0.01**	**0.29**	**0.28**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.15	0.05	0.00	0.02	0.01
	Worker		0.03	0.02	0.29	0.00	0.08	0.02
	Total		**0.04**	**0.18**	**0.34**	**0.00**	**0.10**	**0.03**
TOTAL			***0.78***	***6.77***	***5.65***	***0.01***	***0.40***	***0.31***

Paving

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Off-Road		1.19	11.68	15.04	0.02	0.59	0.54
	Paving		0.00				0.00	0.00
	Total		**1.19**	**11.68**	**15.04**	**0.02**	**0.59**	**0.54**
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	0.06	0.72	0.00	0.21	0.06
	Total		**0.07**	**0.06**	**0.72**	**0.00**	**0.21**	**0.06**
TOTAL			***1.27***	***11.73***	***15.77***	***0.03***	***0.80***	***0.60***

Onsite		**2022**					
	Off-Road	1.19	11.68	15.04	0.02	0.59	0.54
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.19**	**11.68**	**15.04**	**0.02**	**0.59**	**0.54**
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	0.06	0.72	0.00	0.21	0.06
	Total	**0.07**	**0.06**	**0.72**	**0.00**	**0.21**	**0.06**
TOTAL		***1.27***	***11.73***	***15.77***	***0.03***	***0.80***	***0.60***

	ROG	**NOx**	**CO**	**SO2**	**PM10 Total**	**PM2.5 Total**
Demolition	***3***	***26***	***21***	***0***	***1***	***1***
Site Preparation	***3***	***33***	***20***	***0***	***10***	***6***
Grading	***4***	***39***	***30***	***0***	***6***	***3***
Trenching and Fencing	***2***	***14***	***11***	***0***	***1***	***1***
Paving	***1***	***12***	***16***	***0***	***1***	***1***
MAX DAILY	**4**	**39**	**30**	**0**	**10**	**6**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	**No**	No	No	No	No	No

Construction LST Worksheet (Driving Range):

**NOx and CO LSTs based on 82 ft receptor (employees), PM10 and PM2.5 LSTs based on 250 ft receptor (residences) as employees would not be onsite 24hrs/day

Demolition

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road	25.72	20.59	1.24	1.16
	Total	**25.72**	**20.59**	**1.24**	**1.16**
TOTAL		***25.72***	***20.59***	***1.24***	***1.16***
Onsite					
	Off-Road	25.72	20.59	1.24	1.16
	Total	**25.72**	**20.59**	**1.24**	**1.16**
TOTAL		***25.72***	***20.59***	***1.24***	***1.16***

Site Preparation

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Fugitive Dust			8.40	4.32
	Off-Road	33.08	19.70	1.61	1.48
	Total	**33.08**	**19.70**	**10.02**	**5.80**
TOTAL		***33.08***	***19.70***	***10.02***	***5.80***
Onsite					
	Fugitive Dust	0.00	0.00	8.40	4.32
	Off-Road	33.08	19.70	1.61	1.48
	Total	**33.08**	**19.70**	**10.02**	**5.80**
TOTAL		***33.08***	***19.70***	***10.02***	***5.80***

Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Fugitive Dust			3.93	1.56
	Off-Road	38.84	29.04	1.63	1.50
	Total	**38.84**	**29.04**	**5.57**	**3.07**
TOTAL		***38.84***	***29.04***	***5.57***	***3.07***
Onsite					
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	38.84	29.04	1.63	1.50
	Total	**38.84**	**29.04**	**5.57**	**3.07**
TOTAL		***38.84***	***29.04***	***5.57***	***3.07***

Trenching					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road	6.76	5.20	0.48	0.44
	Total	**6.76**	**5.20**	**0.48**	**0.44**
TOTAL		***6.76***	***5.20***	***0.48***	***0.44***
Onsite					
	Off-Road	6.76	5.20	0.48	0.44
	Total	**6.76**	**5.20**	**0.48**	**0.44**
TOTAL		***6.76***	***5.20***	***0.48***	***0.44***

Fencing					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road	6.59	5.31	0.29	0.28
	Total	**6.59**	**5.31**	**0.29**	**0.28**
TOTAL		***6.59***	***5.31***	***0.29***	***0.28***
Onsite					
	Off-Road	6.59	5.31	0.29	0.28
	Total	**6.59**	**5.31**	**0.29**	**0.28**
TOTAL		***6.59***	***5.31***	***0.29***	***0.28***

Paving					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road	11.68	15.04	0.59	0.54
	Paving			0.00	0.00
	Total	**11.68**	**15.04**	**0.59**	**0.54**
TOTAL		***11.68***	***15.04***	***0.59***	***0.54***
Onsite					
	Off-Road	11.68	15.04	0.59	0.54
	Paving	0.00	0.00	0.00	0.00
	Total	**11.68**	**15.04**	**0.59**	**0.54**
TOTAL		***11.68***	***15.04***	***0.59***	***0.54***

		NOx	CO	PM10 Total	PM2.5 Total
Demolition		***26***	***21***	***1.24***	***1.16***
	≤1.00 Acre LST	***69***	***535***	***19.38***	***5.57***
	Exceeds LST?	***no***	***no***	***no***	***no***
Site Preparation		***33***	***20***	***10.02***	***5.80***
	3.50 Acre LST	***123***	***1,176***	***36.12***	***9.36***
	Exceeds LST?	***no***	***no***	***no***	***no***
Grading		***39***	***29***	***5.57***	***3.07***
	4.00 Acre LST	***131***	***1,297***	***39.21***	***10.11***
	Exceeds LST?	***no***	***no***	***no***	***no***

Trenching and Fencing		***13***	***11***	***0.77***	***0.72***
	≤1.00 Acre LST	***69***	***535***	***19.38***	***5.57***
	Exceeds LST?	***no***	***no***	***no***	***no***
Paving		***12***	***15***	***0.59***	***0.54***
	≤1.00 Acre LST	***69***	***535***	***19.38***	***5.57***
	Exceeds LST?	***no***	***no***	***no***	***no***

Regional Construction Emissions Worksheet (Mini Golf Course):

Demolition							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**Winter**						
	Off-Road	0.96	9.08	7.66	0.02	0.43	0.40
	Total	**0.96**	**9.08**	**7.66**	**0.02**	**0.43**	**0.40**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.08	0.03	0.00	0.01	0.00
	Worker	0.03	0.02	0.27	0.00	0.08	0.02
	Total	**0.03**	**0.10**	**0.30**	**0.00**	**0.10**	**0.03**
TOTAL		***0.99***	***9.18***	***7.96***	***0.02***	***0.52***	***0.43***
Onsite							
	Off-Road	0.96	9.08	7.66	0.02	0.43	0.40
	Total	**0.96**	**9.08**	**7.66**	**0.02**	**0.43**	**0.40**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.08	0.03	0.00	0.01	0.00
	Worker	0.03	0.02	0.27	0.00	0.08	0.02
	Total	**0.03**	**0.10**	**0.30**	**0.00**	**0.10**	**0.03**
TOTAL		***0.99***	***9.18***	***7.96***	***0.02***	***0.52***	***0.43***

Site Preparation							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Winter						
	Fugitive Dust					2.80	1.44
	Off-Road	0.83	8.58	5.30	0.01	0.39	0.36
	Total	**0.83**	**8.58**	**5.30**	**0.01**	**3.19**	**1.80**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.08	0.03	0.00	0.01	0.00
	Worker	0.02	0.01	0.17	0.00	0.05	0.01
	Total	**0.02**	**0.09**	**0.20**	**0.00**	**0.06**	**0.02**
TOTAL		***0.85***	***8.67***	***5.50***	***0.01***	***3.26***	***1.82***
Onsite							
	Fugitive Dust	0.00	0.00	0.00	0.00	2.80	1.44
	Off-Road	0.83	8.58	5.30	0.01	0.39	0.36
	Total	**0.83**	**8.58**	**5.30**	**0.01**	**3.19**	**1.80**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.08	0.03	0.00	0.01	0.00
	Worker	0.02	0.01	0.17	0.00	0.05	0.01
	Total	**0.02**	**0.09**	**0.20**	**0.00**	**0.06**	**0.02**
TOTAL		***0.85***	***8.67***	***5.50***	***0.01***	***3.26***	***1.82***

Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Winter						
	Fugitive Dust					2.10	1.08
	Off-Road	0.85	8.69	5.42	0.01	0.37	0.34
	Total	**0.85**	**8.69**	**5.42**	**0.01**	**2.47**	**1.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.08	0.03	0.00	0.01	0.00
	Worker	0.03	0.02	0.27	0.00	0.08	0.02
	Total	**0.03**	**0.10**	**0.30**	**0.00**	**0.10**	**0.03**
TOTAL		***0.88***	***8.79***	***5.72***	***0.01***	***2.57***	***1.45***
Onsite							
	Fugitive Dust	0.00	0.00	0.00	0.00	2.10	1.08
	Off-Road	0.85	8.69	5.42	0.01	0.37	0.34
	Total	**0.85**	**8.69**	**5.42**	**0.01**	**2.47**	**1.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.08	0.03	0.00	0.01	0.00
	Worker	0.03	0.02	0.27	0.00	0.08	0.02
	Total	**0.03**	**0.10**	**0.30**	**0.00**	**0.10**	**0.03**
TOTAL		***0.88***	***8.79***	***5.72***	***0.01***	***2.57***	***1.45***

Trenching

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**Winter**						
	Off-Road	0.35	3.23	2.59	0.00	0.22	0.21
	Total	**0.35**	**3.23**	**2.59**	**0.00**	**0.22**	**0.21**
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	0.10	0.00	0.03	0.01
	Total	**0.01**	**0.01**	**0.10**	**0.00**	**0.03**	**0.01**
TOTAL		***0.36***	***3.24***	***2.69***	***0.00***	***0.26***	***0.21***
Onsite							
	Off-Road	0.35	3.23	2.59	0.00	0.22	0.21
	Total	**0.35**	**3.23**	**2.59**	**0.00**	**0.22**	**0.21**
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	0.10	0.00	0.03	0.01
	Total	**0.01**	**0.01**	**0.10**	**0.00**	**0.03**	**0.01**
TOTAL		***0.36***	***3.24***	***2.69***	***0.00***	***0.26***	***0.21***

Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Winter						
	Off-Road	0.49	4.72	6.58	0.01	0.23	0.22
	Paving	0.00				0.00	0.00
	Total	**0.49**	**4.72**	**6.58**	**0.01**	**0.23**	**0.22**
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	0.03	0.02	0.33	0.00	0.10	0.03
	Total	**0.03**	**0.02**	**0.33**	**0.00**	**0.10**	**0.03**
TOTAL		***0.53***	***4.74***	***6.91***	***0.01***	***0.34***	***0.24***
Onsite							
	Off-Road	0.49	4.72	6.58	0.01	0.23	0.22
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.49**	**4.72**	**6.58**	**0.01**	**0.23**	**0.22**
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	0.03	0.02	0.33	0.00	0.10	0.03
	Total	**0.03**	**0.02**	**0.33**	**0.00**	**0.10**	**0.03**
TOTAL		***0.53***	***4.74***	***6.91***	***0.01***	***0.34***	***0.24***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Demolition	***1***	***9***	***8***	***0***	***1***	***0***
Site Preparation	***1***	***9***	***5***	***0***	***3***	***2***
Grading	***1***	***9***	***6***	***0***	***3***	***1***
Trenching and Paving	***1***	***8***	***10***	***0***	***1***	***0***
Paving	***1***	***5***	***7***	***0***	***0***	***0***
MAX DAILY	**1**	**9**	**10**	**0**	**3**	**2**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	**No**	No	No	No	No	No

Construction LST Worksheet (Mini Golf Course):

**NOx and CO LSTs based on 82 ft receptor (employees), PM10 and PM2.5 LSTs based on 250 ft receptor (residences) as employees would not be onsite 24hrs/day

Demolition

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2023**				
	Off-Road		9.08	7.66	0.43	0.40
	Total		**9.08**	**7.66**	**0.43**	**0.40**
TOTAL			***9.08***	***7.66***	***0.43***	***0.40***
Onsite		**2023**				
	Off-Road		9.08	7.66	0.43	0.40
	Total		**9.08**	**7.66**	**0.43**	**0.40**
TOTAL			***9.08***	***7.66***	***0.43***	***0.40***

Site Preparation

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2023**				
	Fugitive Dust				2.80	1.44
	Off-Road		8.58	5.30	0.39	0.36
	Total		**8.58**	**5.30**	**3.19**	**1.80**
TOTAL			***8.58***	***5.30***	***3.19***	***1.80***
Onsite		**2023**				
	Fugitive Dust		0.00	0.00	2.80	1.44
	Off-Road		8.58	5.30	0.39	0.36
	Total		**8.58**	**5.30**	**3.19**	**1.80**
TOTAL			***8.58***	***5.30***	***3.19***	***1.80***

Grading

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2023**				
	Fugitive Dust				2.10	1.08
	Off-Road		8.69	5.42	0.37	0.34
	Total		**8.69**	**5.42**	**2.47**	**1.42**
TOTAL			***8.69***	***5.42***	***2.47***	***1.42***
Onsite		**2023**				
	Fugitive Dust		0.00	0.00	2.10	1.08
	Off-Road		8.69	5.42	0.37	0.34
	Total		**8.69**	**5.42**	**2.47**	**1.42**
TOTAL			***8.69***	***5.42***	***2.47***	***1.42***

Trenching

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2023**				
	Off-Road		3.23	2.59	0.22	0.21
	Total		**3.23**	**2.59**	**0.22**	**0.21**
TOTAL			***3.23***	***2.59***	***0.22***	***0.21***
Onsite		**2023**				
	Off-Road		3.23	2.59	0.22	0.21
	Total		**3.23**	**2.59**	**0.22**	**0.21**
TOTAL			***3.23***	***2.59***	***0.22***	***0.21***

Paving					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
	Off-Road	4.72	6.58	0.23	0.22
	Paving			0.00	0.00
	Total	**4.72**	**6.58**	**0.23**	**0.22**
TOTAL		***4.72***	***6.58***	***0.23***	***0.22***
Onsite	**2023**				
	Off-Road	4.72	6.58	0.23	0.22
	Paving	0.00	0.00	0.00	0.00
	Total	**4.72**	**6.58**	**0.23**	**0.22**
TOTAL		***4.72***	***6.58***	***0.23***	***0.22***
		NOx	**CO**	**PM10 Total**	**PM2.5 Total**
Demolition		***9***	***8***	***0.43***	***0.40***
	≤1.00 Acre LST	***69***	***535***	***19.38***	***5.57***
	Exceeds LST?	***no***	***no***	***no***	***no***
Site Preparation		***9***	***5***	***3.19***	***1.80***
	≤1.00 Acre LST	***69***	***535***	***19.38***	***5.57***
	Exceeds LST?	***no***	***no***	***no***	***no***
Grading		***9***	***5***	***2.47***	***1.42***
	≤1.00 Acre LST	***69***	***535***	***19.38***	***5.57***
	Exceeds LST?	***no***	***no***	***no***	***no***
Trenching and Paving		***8***	***9***	***0.46***	***0.42***
	≤1.00 Acre LST	***69***	***535***	***19.38***	***5.57***
	Exceeds LST?	***no***	***no***	***no***	***no***
Paving		***5***	***7***	***0.23***	***0.22***
	≤1.00 Acre LST	***69***	***535***	***19.38***	***5.57***
	Exceeds LST?	***no***	***no***	***no***	***no***

Regional Operation Emissions Worksheet: Buildout Year 2023[1]

[1] CalEEMod, Version 2020.4

Project

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.06	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.35	1.46	14.73	0.03	3.37	0.91
Total	**1.41**	**1.46**	**14.74**	**0.03**	**3.37**	**0.91**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.06	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.33	1.58	14.30	0.03	3.37	0.91
Total	**1.39**	**1.58**	**14.31**	**0.03**	**3.37**	**0.91**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	1	2	15	0	3	1
Total	**1**	**2**	**15**	**0**	**3**	**1**

Regional Thresholds (lb/day)	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

GHG Emissions Inventory

Source: CalEEMod, Version 2020.4

$MTCO_2e$=metric tons of carbon dioxide equivalent.

Construction

	$MTCO_2e$
2022 (Driving Range)	315
2023 (Mini Golf)	50
Total Construction	**365**
30-Year Amortization[1]	**12**

Operation	$MTCO_2e$	Percent of Emissions
Area	0	0%
Energy (Lighting)[2]	12	2%
Mobile	547	95%
Solid Waste	0	0%
Water	4	1%
30-Yr Amortized Construction Emissions[1]	12	2%
Total	**575**	**100%**
South Coast AQMD Working Group Threshold	3,000	
Exceed Threshold?	**No**	

Notes

1 Total construction emissions are amortized over 30 years per South Coast AQMD Working Group 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.

2 See assumptions file for lighting calculations.

Assumptions Worksheet

CalEEMod Inputs - Brookside Golf Course Improvements Project (Driving Range), Construction

Name:	Brookside Golf Course Improvements Project (Driving Range)
Project Number:	RBOC-01
Project Location:	1133 Rosemont Ave, Pasadena, CA
County/Air Basin:	Los Angeles
Climate Zone:	12
Land Use Setting:	Urban
Operational Year:	2023
Utility Company:	Pasadena Water and Power
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	8- West San Gabriel Valley

Proiect Site Acreage	12
Disturbed Acreage (Driving Range)	9.00

Project Components	SQFT	Tons
New Construction	***SQFT***	***ACRES***
Golf Course	301,000	6.91
Hardscape	16,000	0.37
Additional Area	75,040	1.72

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage*	Land Use Square Feet
Recreational	Golf Course	6.910	acre	6.91	301,000
Parking	Other Non-asphalt Surfaces	91.040	1000 sqft	2.09	91,040
				9.00	

Architectural Coating

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

Pasadena Water and Power Carbon Intensity Factors

CO2:[1,2]	872.98	pounds per megawatt hour
CH4:[3]	0.029	pound per megawatt hour
N2O:[3]	0.00617	pound per megawatt hour

CalEEMod Inputs - Brookside Golf Course Improvements Project (Mini Golf), Construction

Name:	Brookside Golf Course Improvements Project (Mini Golf)
Project Number:	RBOC-01
Project Location:	1133 Rosemont Ave, Pasadena, CA
County/Air Basin:	Los Angeles
Climate Zone:	12
Land Use Setting:	Urban
Operational Year:	2023
Utility Company:	Pasadena Water and Power
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	8- West San Gabriel Valley

Proiect Site Acreage	12
Disturbed Site Acreage	1.00

Project Components	SQFT	Tons
New Construction	***SQFT***	***ACRES***
Landscape (Mini Golf Course)	21,500	0.49
Hardscape	21,500	0.49

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage*	Land Use Square Feet
Recreational	Golf Course	0.494	acres	0.49	21,500
Parking	Other Non-asphalt Surfaces	21.500	1000 sqft	0.49	21,500
				0.99	

Architectural Coating

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

Pasadena Water and Power Carbon Intensity Factors

CO2:	872.98	pounds per megawatt hour
CH4:	0.029	pound per megawatt hour
N2O:	0.00617	pound per megawatt hour

Construction Activities and Schedule Assumptions: Brookside Golf Course Improvement Project

based on durations provided by Applicant

model assumes construction begins year 2022 for the most conservative emissions outputs

Construction Schedule (Driving Range)

Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Demolition	Demolition	5/1/2022	6/10/2022	30
Site Preparation	Site Preparation	6/11/2022	7/11/2022	21
Grading (Rough Grading + Fine Grading)	Grading	7/12/2022	9/30/2022	59
Trenching	Trenching	10/1/2022	11/15/2022	32
Fencing	Building Construction	10/1/2022	11/15/2022	32
Paving	Paving	11/16/2022	12/16/2022	23

Construction Schedule (Mini Golf)

Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Demolition	Demolition	1/1/2023	1/13/2023	10
Site Preparation	Site Preparation	1/14/2023	2/3/2023	15
Grading (Rough Grading + Fine Grading)	Grading	2/4/2023	3/28/2023	37
Trenching	Trenching	3/29/2023	4/11/2023	10
Paving	Paving	3/29/2023	4/20/2023	17

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**
Driving Range Development						
Demolition						
Concrete/Industrial Saws		1	8	81		
Excavators		3	8	158		
Rubber Tired Dozers		2	8	247		
Worker Trips						15
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						4
Site Preparation						
Rubber Tired Dozers		3	8	247		
Tractors/Loaders/Backhoes		4	8	97		
Worker Trips						18
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						4
Grading						
Excavators		2	8	158		
Graders		1	8	187		
Rubber Tired Dozers		1	8	247		
Scrapers		2	8	367		
Tractors/Loaders/Backhoes		2	8	97		
Worker Trips						20
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						4
Utility Trenching						
Trenchers		2	8	78		
Worker Trips						5
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Fencing						
Cranes		1	7	231		
Tractors/Loaders/Backhoes		1	7	97		
Welders		1	8	46		
Worker Trips						8
Vendor Trips						3
Hauling Trips (TOTAL TRIPS)						0

** for the most conservative estimates, fencing construction activity uses vendor trip rates for building construction activities and the hardscape area*

	Unit
16.00	1000sqft

	Vendor Trip Rate	**Trips**
Building Construction Trips	0.1639	3

Paving*						
Pavers		2	8	130		
Rollers		2	8	80		
Paving Equipment		2	8	132		
Cement and Mortar Mixers		2	6	9		
Worker Trips						20
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0

Mini Golf Course Development

Demolition						
Concrete/Industrial Saws		1	8	81		
Rubber Tired Dozers		1	6	247		
Tractors/Loaders/Backhoes		1	6	97		
Worker Trips						8
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						2
Site Preparation						
Rubber Tired Dozers		1	8	247		
Tractors/Loaders/Backhoes		1	8	97		
Worker Trips						5
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						2
Grading						
Rubber Tired Loader		1	6	203		
Rubber Tired Dozers		1	6	247		
Tractors/Loaders/Backhoes		1	7	97		
Worker Trips						8
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Water Trucks						2
Utility Trenching						
Trenchers		1	8	78		
Worker Trips						3
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0
Paving*						
Pavers		1	7	130		
Cement and Mortar Mixers		1	6	9		
Rollers		1	7	80		
Paving Equipment		1	7	132		
Worker Trips						10
Vendor Trips						0
Hauling Trips (TOTAL TRIPS)						0

CalEEMod Inputs - Brookside Golf Course Imrpovements Project, Operations

Name:	Brookside Golf Course Improvements Project
Project Number:	RBOC-01
Project Location:	1133 Rosemont Ave, Pasadena, CA
County/Air Basin:	Los Angeles
Climate Zone:	12
Land Use Setting:	Urban
Operational Year:	2023
Utility Company:	Pasadena Water and Power
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	8- West San Gabriel Valley

Proiect Site Acreage	12
Disturbed Site Acreage	10.00

Project Components	SQFT	Tons
New Construction	***SQFT***	***ACRES***
Driving Range	301,000	6.91
Hardscape	16,000	0.37
Additional Area	75,040	1.72
New Construction	***SQFT***	***ACRES***
Mini Golf Course	21,500	0.49
Hardscape	21,500	0.49

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Recreational	Golf Course	7.404	acres	7.40	322,500
Parking	Other Non-asphalt Surfaces	112.540	1000 sqft	2.58	112,540
				9.99	

Trips

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips	CalEEMod Trip
Driving Range	410	**55.31**	410	**55.31**	410	**55.31**
Mini Golf	130	**17.56**	130	**17.56**	130	**17.56**
Existing	136	**18.37**	136	**18.37**	136	**18.37**
Total	**404**	**54.50**	**404**	**54.50**	**404**	**54.50**

Source: Pasadena Department of Transportation. 2021, May. Transportation Impact Analysis for Expansion of the Existing Brookside GolfCourse

Daily Weekday VMT	4,364

Trips	Average Trip Rate (mi/trip)	Annual Vehicle Miles Traveled***
Total Trips	**10.82**	**1,588,536**

*** Annual VMT is calculated based on weekday VMT x 364 days per year.

	Trip Type Percentages		
	Primary	**Diverted**	**Passby**
Golf Course	52%	39%	9%
Adjusted Trip Type Percentages	**100%**	**0%**	**0%**

Water Use (CalEEMod Defaults)

Mini Golf Course Sewage Generation 80 gal/day/1000 sf

*Sewage generation rates based on a City of LA CEQA Thresholds for a golf course lobby

Land Use[1,2]	**Indoor**	**Outdoor[3]**	**Total**
Total Water Use (gal/day)	1,720	0	1,720
Total Water Use (gal/year)	627,800	0	627,800

[1] considers only new generation from Mini Golf Course operations. Assumes driving range operations is intended to meet demand currently at the golf course

[2] Assumes 100% aerobic treatment.

[3] Outdoor water use already occurs

Solid Waste

Land Use	**(tons/year)**
Golf Course	0.46

*Based on CalEEMod default rates for new generation from Mini Golf Course operations. Assumes driving range operations is intended to meet demand currently at the golf course.

Lighting (Electricity Use)

	Total Average kW/Day [1]	**Day/Year[2]**	**Hours[3]**	**Kwh (Annual)**
Light Pole Operations	21.30	365	4	31,098
			Total Annual kWh	31,098

Calculation of GHGs from Field Lighting

CO_2 [4]	**CH_4 [4]**	**N_2O [4]**	**CO_2e**	**CO_2e**
lbs/Mwh	lbs/Mwh	lbs/Mwh	lbs/Mwh	MT/Kwh
872.98300	0.02900	0.00617	873.02	0.000396
				MT/Year
			CO_2e from Lighting	**12.31**

[1] *Based on Lighting Plan for the proposed driving range as provided by the Applicant.*

[2] *Assumes light poles will be operational year round*

[3] *Based on worst case estimate*

[4] *CalEEMod default Carbon Intensity Factors*

Pasadena Water and Power Carbon Intensity Factors

CO2:	872.98	pounds per megawatt hour
CH4:	0.029	pound per megawatt hour
N2O:	0.00617	pound per megawatt hour

CalEEMod Construction Model

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Brookside Golf Course Improvements (Driving Range) Construction Run

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	91.04	1000sqft	2.09	91,040.00	0
Golf Course	6.91	Acre	6.91	300,999.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2022
Utility Company	Pasadena Water and Power				
CO2 Intensity (lb/MWhr)	872.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - based on information provided by applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on information provided by applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Trips and VMT - assuming 4 vt/water truck/day. Fencing bendor trips based on vendor trip rate for building construction activities and hardscape area.

Grading -

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

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	5462	960
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	20.00	59.00
tblConstructionPhase	NumDays	20.00	23.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00

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	0.2226	2.2448	1.7716	3.5500e-003	0.4954	0.1032	0.5986	0.2186	0.0952	0.3138	0.0000	312.3358	312.3358	0.0928	1.0900e-003	314.9803
Maximum	**0.2226**	**2.2448**	**1.7716**	**3.5500e-003**	**0.4954**	**0.1032**	**0.5986**	**0.2186**	**0.0952**	**0.3138**	**0.0000**	**312.3358**	**312.3358**	**0.0928**	**1.0900e-003**	**314.9803**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2226	2.2448	1.7716	3.5500e-003	0.2205	0.1032	0.3236	0.0958	0.0952	0.1910	0.0000	312.3354	312.3354	0.0928	1.0900e-003	314.9799
Maximum	**0.2226**	**2.2448**	**1.7716**	**3.5500e-003**	**0.2205**	**0.1032**	**0.3236**	**0.0958**	**0.0952**	**0.1910**	**0.0000**	**312.3354**	**312.3354**	**0.0928**	**1.0900e-003**	**314.9799**

	ROG	NOx	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**	**55.50**	**0.00**	**45.93**	**56.17**	**0.00**	**39.13**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**5-1-2022**	**7-31-2022**	1.1300	1.1300
2	**8-1-2022**	**9-30-2022**	0.9323	0.9323
		Highest	1.1300	1.1300

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2022	6/10/2022	5	30	a
2	Site Preparation	Site Preparation	6/11/2022	7/11/2022	5	21	b
3	Grading	Grading	7/12/2022	9/30/2022	5	59	c
4	Trenching	Trenching	10/1/2022	11/15/2022	5	32	d
5	Fencing	Trenching	10/1/2022	11/15/2022	5	32	e
6	Paving	Paving	11/16/2022	12/16/2022	5	23	f

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Acres of Grading (Site Preparation Phase): 31.5

Acres of Grading (Grading Phase): 177

Acres of Paving: 2.09

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Fencing	Cranes	1	7.00	231	0.29
Fencing	Forklifts	0	8.00	89	0.20
Fencing	Generator Sets	0	8.00	84	0.74
Fencing	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Fencing	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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
Demolition	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fencing	3	8.00	3.00	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

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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	0.0396	0.3858	0.3089	5.8000e-004		0.0186	0.0186		0.0173	0.0173	0.0000	50.9853	50.9853	0.0143	0.0000	51.3434
Total	**0.0396**	**0.3858**	**0.3089**	**5.8000e-004**		**0.0186**	**0.0186**		**0.0173**	**0.0173**	**0.0000**	**50.9853**	**50.9853**	**0.0143**	**0.0000**	**51.3434**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.0900e-003	1.0200e-003	1.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.1458	1.1458	4.0000e-005	1.7000e-004	1.1960
Worker	7.7000e-004	6.4000e-004	8.3400e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	2.0278	2.0278	6.0000e-005	6.0000e-005	2.0458
Total	**8.9000e-004**	**3.7300e-003**	**9.3600e-003**	**3.0000e-005**	**2.8500e-003**	**5.0000e-005**	**2.8900e-003**	**7.6000e-004**	**4.0000e-005**	**8.1000e-004**	**0.0000**	**3.1735**	**3.1735**	**1.0000e-004**	**2.3000e-004**	**3.2417**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0396	0.3858	0.3089	5.8000e-004		0.0186	0.0186		0.0173	0.0173	0.0000	50.9853	50.9853	0.0143	0.0000	51.3433
Total	**0.0396**	**0.3858**	**0.3089**	**5.8000e-004**		**0.0186**	**0.0186**		**0.0173**	**0.0173**	**0.0000**	**50.9853**	**50.9853**	**0.0143**	**0.0000**	**51.3433**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.0900e-003	1.0200e-003	1.0000e-005	3.5000e-004	3.0000e-005	3.8000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.1458	1.1458	4.0000e-005	1.7000e-004	1.1960
Worker	7.7000e-004	6.4000e-004	8.3400e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	2.0278	2.0278	6.0000e-005	6.0000e-005	2.0458
Total	**8.9000e-004**	**3.7300e-003**	**9.3600e-003**	**3.0000e-005**	**2.6200e-003**	**5.0000e-005**	**2.6700e-003**	**7.1000e-004**	**4.0000e-005**	**7.5000e-004**	**0.0000**	**3.1735**	**3.1735**	**1.0000e-004**	**2.3000e-004**	**3.2417**

3.3 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					0.2064	0.0000	0.2064	0.1061	0.0000	0.1061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0333	0.3474	0.2068	4.0000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	35.1114	35.1114	0.0114	0.0000	35.3953
Total	**0.0333**	**0.3474**	**0.2068**	**4.0000e-004**	**0.2064**	**0.0169**	**0.2233**	**0.1061**	**0.0156**	**0.1217**	**0.0000**	**35.1114**	**35.1114**	**0.0114**	**0.0000**	**35.3953**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	2.1600e-003	7.2000e-004	1.0000e-005	2.6000e-004	2.0000e-005	2.8000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	0.8020	0.8020	3.0000e-005	1.2000e-004	0.8372
Worker	6.5000e-004	5.4000e-004	7.0100e-003	2.0000e-005	2.0700e-003	1.0000e-005	2.0800e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.7034	1.7034	5.0000e-005	5.0000e-005	1.7184
Total	**7.3000e-004**	**2.7000e-003**	**7.7300e-003**	**3.0000e-005**	**2.3300e-003**	**3.0000e-005**	**2.3600e-003**	**6.3000e-004**	**3.0000e-005**	**6.6000e-004**	**0.0000**	**2.5054**	**2.5054**	**8.0000e-005**	**1.7000e-004**	**2.5556**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0882	0.0000	0.0882	0.0454	0.0000	0.0454	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0333	0.3474	0.2068	4.0000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	35.1113	35.1113	0.0114	0.0000	35.3952
Total	**0.0333**	**0.3474**	**0.2068**	**4.0000e-004**	**0.0882**	**0.0169**	**0.1052**	**0.0454**	**0.0156**	**0.0609**	**0.0000**	**35.1113**	**35.1113**	**0.0114**	**0.0000**	**35.3952**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	2.1600e-003	7.2000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.8020	0.8020	3.0000e-005	1.2000e-004	0.8372
Worker	6.5000e-004	5.4000e-004	7.0100e-003	2.0000e-005	1.9100e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7034	1.7034	5.0000e-005	5.0000e-005	1.7184
Total	**7.3000e-004**	**2.7000e-003**	**7.7300e-003**	**3.0000e-005**	**2.1600e-003**	**3.0000e-005**	**2.1900e-003**	**5.8000e-004**	**3.0000e-005**	**6.1000e-004**	**0.0000**	**2.5054**	**2.5054**	**8.0000e-005**	**1.7000e-004**	**2.5556**

3.4 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					0.2715	0.0000	0.2715	0.1078	0.0000	0.1078	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1069	1.1459	0.8567	1.8300e-003		0.0482	0.0482		0.0444	0.0444	0.0000	160.8771	160.8771	0.0520	0.0000	162.1778
Total	**0.1069**	**1.1459**	**0.8567**	**1.8300e-003**	**0.2715**	**0.0482**	**0.3197**	**0.1078**	**0.0444**	**0.1522**	**0.0000**	**160.8771**	**160.8771**	**0.0520**	**0.0000**	**162.1778**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	6.0700e-003	2.0100e-003	2.0000e-005	7.4000e-004	6.0000e-005	8.0000e-004	2.1000e-004	5.0000e-005	2.7000e-004	0.0000	2.2533	2.2533	8.0000e-005	3.3000e-004	2.3520
Worker	2.0200e-003	1.6800e-003	0.0219	6.0000e-005	6.4700e-003	4.0000e-005	6.5100e-003	1.7200e-003	4.0000e-005	1.7600e-003	0.0000	5.3173	5.3173	1.5000e-004	1.5000e-004	5.3644
Total	**2.2500e-003**	**7.7500e-003**	**0.0239**	**8.0000e-005**	**7.2100e-003**	**1.0000e-004**	**7.3100e-003**	**1.9300e-003**	**9.0000e-005**	**2.0300e-003**	**0.0000**	**7.5706**	**7.5706**	**2.3000e-004**	**4.8000e-004**	**7.7165**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1161	0.0000	0.1161	0.0461	0.0000	0.0461	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1069	1.1459	0.8567	1.8300e-003		0.0482	0.0482		0.0444	0.0444	0.0000	160.8769	160.8769	0.0520	0.0000	162.1777
Total	**0.1069**	**1.1459**	**0.8567**	**1.8300e-003**	**0.1161**	**0.0482**	**0.1643**	**0.0461**	**0.0444**	**0.0905**	**0.0000**	**160.8769**	**160.8769**	**0.0520**	**0.0000**	**162.1777**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	6.0700e-003	2.0100e-003	2.0000e-005	7.0000e-004	6.0000e-005	7.5000e-004	2.0000e-004	5.0000e-005	2.6000e-004	0.0000	2.2533	2.2533	8.0000e-005	3.3000e-004	2.3520
Worker	2.0200e-003	1.6800e-003	0.0219	6.0000e-005	5.9600e-003	4.0000e-005	6.0000e-003	1.5900e-003	4.0000e-005	1.6300e-003	0.0000	5.3173	5.3173	1.5000e-004	1.5000e-004	5.3644
Total	**2.2500e-003**	**7.7500e-003**	**0.0239**	**8.0000e-005**	**6.6600e-003**	**1.0000e-004**	**6.7500e-003**	**1.7900e-003**	**9.0000e-005**	**1.8900e-003**	**0.0000**	**7.5706**	**7.5706**	**2.3000e-004**	**4.8000e-004**	**7.7165**

3.5 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	0.0116	0.1082	0.0832	1.1000e-004		7.6600e-003	7.6600e-003		7.0500e-003	7.0500e-003	0.0000	9.4913	9.4913	3.0700e-003	0.0000	9.5681
Total	**0.0116**	**0.1082**	**0.0832**	**1.1000e-004**		**7.6600e-003**	**7.6600e-003**		**7.0500e-003**	**7.0500e-003**	**0.0000**	**9.4913**	**9.4913**	**3.0700e-003**	**0.0000**	**9.5681**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.3000e-004	2.9700e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7210	0.7210	2.0000e-005	2.0000e-005	0.7274
Total	**2.7000e-004**	**2.3000e-004**	**2.9700e-003**	**1.0000e-005**	**8.8000e-004**	**1.0000e-005**	**8.8000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.7210**	**0.7210**	**2.0000e-005**	**2.0000e-005**	**0.7274**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0116	0.1082	0.0832	1.1000e-004		7.6600e-003	7.6600e-003		7.0500e-003	7.0500e-003	0.0000	9.4913	9.4913	3.0700e-003	0.0000	9.5680
Total	**0.0116**	**0.1082**	**0.0832**	**1.1000e-004**		**7.6600e-003**	**7.6600e-003**		**7.0500e-003**	**7.0500e-003**	**0.0000**	**9.4913**	**9.4913**	**3.0700e-003**	**0.0000**	**9.5680**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.3000e-004	2.9700e-003	1.0000e-005	8.1000e-004	1.0000e-005	8.1000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7210	0.7210	2.0000e-005	2.0000e-005	0.7274
Total	**2.7000e-004**	**2.3000e-004**	**2.9700e-003**	**1.0000e-005**	**8.1000e-004**	**1.0000e-005**	**8.1000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7210**	**0.7210**	**2.0000e-005**	**2.0000e-005**	**0.7274**

3.6 Fencing - 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	0.0120	0.1055	0.0850	1.7000e-004		4.7200e-003	4.7200e-003		4.4200e-003	4.4200e-003	0.0000	13.9349	13.9349	3.8900e-003	0.0000	14.0322
Total	**0.0120**	**0.1055**	**0.0850**	**1.7000e-004**		**4.7200e-003**	**4.7200e-003**		**4.4200e-003**	**4.4200e-003**	**0.0000**	**13.9349**	**13.9349**	**3.8900e-003**	**0.0000**	**14.0322**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.4700e-003	8.2000e-004	1.0000e-005	3.0000e-004	2.0000e-005	3.2000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	0.9166	0.9166	3.0000e-005	1.3000e-004	0.9568
Worker	4.4000e-004	3.7000e-004	4.7500e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1536	1.1536	3.0000e-005	3.0000e-005	1.1638
Total	**5.3000e-004**	**2.8400e-003**	**5.5700e-003**	**2.0000e-005**	**1.7000e-003**	**3.0000e-005**	**1.7300e-003**	**4.6000e-004**	**3.0000e-005**	**4.9000e-004**	**0.0000**	**2.0702**	**2.0702**	**6.0000e-005**	**1.6000e-004**	**2.1206**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0120	0.1055	0.0850	1.7000e-004		4.7200e-003	4.7200e-003		4.4200e-003	4.4200e-003	0.0000	13.9349	13.9349	3.8900e-003	0.0000	14.0322
Total	**0.0120**	**0.1055**	**0.0850**	**1.7000e-004**		**4.7200e-003**	**4.7200e-003**		**4.4200e-003**	**4.4200e-003**	**0.0000**	**13.9349**	**13.9349**	**3.8900e-003**	**0.0000**	**14.0322**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.4700e-003	8.2000e-004	1.0000e-005	2.8000e-004	2.0000e-005	3.1000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	0.9166	0.9166	3.0000e-005	1.3000e-004	0.9568
Worker	4.4000e-004	3.7000e-004	4.7500e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.1536	1.1536	3.0000e-005	3.0000e-005	1.1638
Total	**5.3000e-004**	**2.8400e-003**	**5.5700e-003**	**2.0000e-005**	**1.5700e-003**	**3.0000e-005**	**1.6100e-003**	**4.3000e-004**	**3.0000e-005**	**4.5000e-004**	**0.0000**	**2.0702**	**2.0702**	**6.0000e-005**	**1.6000e-004**	**2.1206**

3.7 Paving - 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	0.0137	0.1343	0.1730	2.7000e-004		6.7800e-003	6.7800e-003		6.2600e-003	6.2600e-003	0.0000	23.8222	23.8222	7.5300e-003	0.0000	24.0105
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0137**	**0.1343**	**0.1730**	**2.7000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2600e-003**	**6.2600e-003**	**0.0000**	**23.8222**	**23.8222**	**7.5300e-003**	**0.0000**	**24.0105**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	6.6000e-004	8.5300e-003	2.0000e-005	2.5200e-003	2.0000e-005	2.5400e-003	6.7000e-004	2.0000e-005	6.8000e-004	0.0000	2.0729	2.0729	6.0000e-005	6.0000e-005	2.0912
Total	**7.9000e-004**	**6.6000e-004**	**8.5300e-003**	**2.0000e-005**	**2.5200e-003**	**2.0000e-005**	**2.5400e-003**	**6.7000e-004**	**2.0000e-005**	**6.8000e-004**	**0.0000**	**2.0729**	**2.0729**	**6.0000e-005**	**6.0000e-005**	**2.0912**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0137	0.1343	0.1730	2.7000e-004		6.7800e-003	6.7800e-003		6.2600e-003	6.2600e-003	0.0000	23.8222	23.8222	7.5300e-003	0.0000	24.0105
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0137**	**0.1343**	**0.1730**	**2.7000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2600e-003**	**6.2600e-003**	**0.0000**	**23.8222**	**23.8222**	**7.5300e-003**	**0.0000**	**24.0105**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	6.6000e-004	8.5300e-003	2.0000e-005	2.3200e-003	2.0000e-005	2.3400e-003	6.2000e-004	2.0000e-005	6.4000e-004	0.0000	2.0729	2.0729	6.0000e-005	6.0000e-005	2.0912
Total	**7.9000e-004**	**6.6000e-004**	**8.5300e-003**	**2.0000e-005**	**2.3200e-003**	**2.0000e-005**	**2.3400e-003**	**6.2000e-004**	**2.0000e-005**	**6.4000e-004**	**0.0000**	**2.0729**	**2.0729**	**6.0000e-005**	**6.0000e-005**	**2.0912**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Brookside Golf Course Improvements (Driving Range) Construction Run

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	91.04	1000sqft	2.09	91,040.00	0
Golf Course	6.91	Acre	6.91	300,999.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2022
Utility Company	Pasadena Water and Power				
CO2 Intensity (lb/MWhr)	872.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - based on information provided by applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on information provided by applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Trips and VMT - assuming 4 vt/water truck/day. Fencing bendor trips based on vendor trip rate for building construction activities and hardscape area.

Grading -

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

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	5462	960
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	20.00	59.00
tblConstructionPhase	NumDays	20.00	23.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00

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	3.7019	39.0899	29.8959	0.0649	19.8838	1.6382	21.4996	10.1632	1.5072	11.6497	0.0000	6,302.2836	6,302.2836	1.9527	0.0171	6,356.2064
Maximum	**3.7019**	**39.0899**	**29.8959**	**0.0649**	**19.8838**	**1.6382**	**21.4996**	**10.1632**	**1.5072**	**11.6497**	**0.0000**	**6,302.2836**	**6,302.2836**	**1.9527**	**0.0171**	**6,356.2064**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7019	39.0899	29.8959	0.0649	8.6128	1.6382	10.2285	4.3753	1.5072	5.8618	0.0000	6,302.2836	6,302.2836	1.9527	0.0171	6,356.2064
Maximum	**3.7019**	**39.0899**	**29.8959**	**0.0649**	**8.6128**	**1.6382**	**10.2285**	**4.3753**	**1.5072**	**5.8618**	**0.0000**	**6,302.2836**	**6,302.2836**	**1.9527**	**0.0171**	**6,356.2064**

	ROG	NOx	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**	**56.68**	**0.00**	**52.42**	**56.95**	**0.00**	**49.68**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2022	6/10/2022	5	30	a
2	Site Preparation	Site Preparation	6/11/2022	7/11/2022	5	21	b
3	Grading	Grading	7/12/2022	9/30/2022	5	59	c
4	Trenching	Trenching	10/1/2022	11/15/2022	5	32	d
5	Fencing	Trenching	10/1/2022	11/15/2022	5	32	e
6	Paving	Paving	11/16/2022	12/16/2022	5	23	f

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Acres of Grading (Site Preparation Phase): 31.5

Acres of Grading (Grading Phase): 177

Acres of Paving: 2.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Fencing	Cranes	1	7.00	231	0.29
Fencing	Forklifts	0	8.00	89	0.20
Fencing	Generator Sets	0	8.00	84	0.74
Fencing	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Fencing	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fencing	3	8.00	3.00	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

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**		**1.2427**	**1.2427**		**1.1553**	**1.1553**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701
Worker	0.0519	0.0379	0.5904	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		155.0163	155.0163	4.2200e-003	3.7500e-003	156.2404
Total	**0.0598**	**0.2338**	**0.6576**	**2.3100e-003**	**0.1933**	**2.9400e-003**	**0.1962**	**0.0519**	**2.7800e-003**	**0.0546**		**239.2009**	**239.2009**	**7.0300e-003**	**0.0159**	**244.1105**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**		**1.2427**	**1.2427**		**1.1553**	**1.1553**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0240	1.8700e-003	0.0259	6.9700e-003	1.7900e-003	8.7600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701
Worker	0.0519	0.0379	0.5904	1.5300e-003	0.1546	1.0700e-003	0.1556	0.0413	9.9000e-004	0.0422		155.0163	155.0163	4.2200e-003	3.7500e-003	156.2404
Total	**0.0598**	**0.2338**	**0.6576**	**2.3100e-003**	**0.1785**	**2.9400e-003**	**0.1815**	**0.0482**	**2.7800e-003**	**0.0510**		**239.2009**	**239.2009**	**7.0300e-003**	**0.0159**	**244.1105**

3.3 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701
Worker	0.0623	0.0455	0.7085	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		186.0196	186.0196	5.0700e-003	4.5000e-003	187.4885
Total	**0.0702**	**0.2414**	**0.7756**	**2.6200e-003**	**0.2268**	**3.1600e-003**	**0.2300**	**0.0607**	**2.9800e-003**	**0.0637**		**270.2042**	**270.2042**	**7.8800e-003**	**0.0166**	**275.3585**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**8.4034**	**1.6126**	**10.0159**	**4.3188**	**1.4836**	**5.8024**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0240	1.8700e-003	0.0259	6.9700e-003	1.7900e-003	8.7600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701
Worker	0.0623	0.0455	0.7085	1.8400e-003	0.1855	1.2900e-003	0.1867	0.0495	1.1900e-003	0.0507		186.0196	186.0196	5.0700e-003	4.5000e-003	187.4885
Total	**0.0702**	**0.2414**	**0.7756**	**2.6200e-003**	**0.2094**	**3.1600e-003**	**0.2126**	**0.0565**	**2.9800e-003**	**0.0594**		**270.2042**	**270.2042**	**7.8800e-003**	**0.0166**	**275.3585**

3.4 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**9.2036**	**1.6349**	**10.8385**	**3.6538**	**1.5041**	**5.1579**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701
Worker	0.0692	0.0505	0.7872	2.0400e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		206.6884	206.6884	5.6300e-003	5.0000e-003	208.3205
Total	**0.0771**	**0.2465**	**0.8543**	**2.8200e-003**	**0.2492**	**3.3000e-003**	**0.2525**	**0.0667**	**3.1100e-003**	**0.0698**		**290.8730**	**290.8730**	**8.4400e-003**	**0.0171**	**296.1906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**3.9345**	**1.6349**	**5.5694**	**1.5620**	**1.5041**	**3.0661**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0240	1.8700e-003	0.0259	6.9700e-003	1.7900e-003	8.7600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701
Worker	0.0692	0.0505	0.7872	2.0400e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		206.6884	206.6884	5.6300e-003	5.0000e-003	208.3205
Total	**0.0771**	**0.2465**	**0.8543**	**2.8200e-003**	**0.2300**	**3.3000e-003**	**0.2333**	**0.0620**	**3.1100e-003**	**0.0651**		**290.8730**	**290.8730**	**8.4400e-003**	**0.0171**	**296.1906**

3.5 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	0.7277	6.7594	5.1979	6.7400e-003		0.4789	0.4789		0.4406	0.4406		653.8989	653.8989	0.2115		659.1860
Total	**0.7277**	**6.7594**	**5.1979**	**6.7400e-003**		**0.4789**	**0.4789**		**0.4406**	**0.4406**		**653.8989**	**653.8989**	**0.2115**		**659.1860**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0173	0.0126	0.1968	5.1000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.0173**	**0.0126**	**0.1968**	**5.1000e-004**	**0.0559**	**3.6000e-004**	**0.0563**	**0.0148**	**3.3000e-004**	**0.0152**		**51.6721**	**51.6721**	**1.4100e-003**	**1.2500e-003**	**52.0801**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7277	6.7594	5.1979	6.7400e-003		0.4789	0.4789		0.4406	0.4406	0.0000	653.8989	653.8989	0.2115		659.1860
Total	**0.7277**	**6.7594**	**5.1979**	**6.7400e-003**		**0.4789**	**0.4789**		**0.4406**	**0.4406**	**0.0000**	**653.8989**	**653.8989**	**0.2115**		**659.1860**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0173	0.0126	0.1968	5.1000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.0173**	**0.0126**	**0.1968**	**5.1000e-004**	**0.0515**	**3.6000e-004**	**0.0519**	**0.0138**	**3.3000e-004**	**0.0141**		**51.6721**	**51.6721**	**1.4100e-003**	**1.2500e-003**	**52.0801**

3.6 Fencing - 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	0.7472	6.5903	5.3098	0.0103		0.2948	0.2948		0.2763	0.2763		960.0384	960.0384	0.2682		966.7438
Total	**0.7472**	**6.5903**	**5.3098**	**0.0103**		**0.2948**	**0.2948**		**0.2763**	**0.2763**		**960.0384**	**960.0384**	**0.2682**		**966.7438**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9000e-003	0.1470	0.0504	5.9000e-004	0.0192	1.4000e-003	0.0206	5.5300e-003	1.3400e-003	6.8700e-003		63.1385	63.1385	2.1100e-003	9.1000e-003	65.9025
Worker	0.0277	0.0202	0.3149	8.2000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		82.6754	82.6754	2.2500e-003	2.0000e-003	83.3282
Total	**0.0336**	**0.1672**	**0.3653**	**1.4100e-003**	**0.1086**	**1.9700e-003**	**0.1106**	**0.0292**	**1.8700e-003**	**0.0311**		**145.8138**	**145.8138**	**4.3600e-003**	**0.0111**	**149.2308**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7472	6.5903	5.3098	0.0103		0.2948	0.2948		0.2763	0.2763	0.0000	960.0384	960.0384	0.2682		966.7438
Total	**0.7472**	**6.5903**	**5.3098**	**0.0103**		**0.2948**	**0.2948**		**0.2763**	**0.2763**	**0.0000**	**960.0384**	**960.0384**	**0.2682**		**966.7438**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9000e-003	0.1470	0.0504	5.9000e-004	0.0180	1.4000e-003	0.0194	5.2300e-003	1.3400e-003	6.5700e-003		63.1385	63.1385	2.1100e-003	9.1000e-003	65.9025
Worker	0.0277	0.0202	0.3149	8.2000e-004	0.0824	5.7000e-004	0.0830	0.0220	5.3000e-004	0.0225		82.6754	82.6754	2.2500e-003	2.0000e-003	83.3282
Total	**0.0336**	**0.1672**	**0.3653**	**1.4100e-003**	**0.1004**	**1.9700e-003**	**0.1024**	**0.0272**	**1.8700e-003**	**0.0291**		**145.8138**	**145.8138**	**4.3600e-003**	**0.0111**	**149.2308**

3.7 Paving - 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	1.1910	11.6772	15.0432	0.0239		0.5894	0.5894		0.5439	0.5439		2,283.4348	2,283.4348	0.7219		2,301.4815
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1910**	**11.6772**	**15.0432**	**0.0239**		**0.5894**	**0.5894**		**0.5439**	**0.5439**		**2,283.4348**	**2,283.4348**	**0.7219**		**2,301.4815**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0692	0.0505	0.7872	2.0400e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		206.6884	206.6884	5.6300e-003	5.0000e-003	208.3205
Total	**0.0692**	**0.0505**	**0.7872**	**2.0400e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**206.6884**	**206.6884**	**5.6300e-003**	**5.0000e-003**	**208.3205**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1910	11.6772	15.0432	0.0239		0.5894	0.5894		0.5439	0.5439	0.0000	2,283.4348	2,283.4348	0.7219		2,301.4815
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1910**	**11.6772**	**15.0432**	**0.0239**		**0.5894**	**0.5894**		**0.5439**	**0.5439**	**0.0000**	**2,283.4348**	**2,283.4348**	**0.7219**		**2,301.4815**

Date: 9/23/2021 5:00 PM

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0692	0.0505	0.7872	2.0400e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		206.6884	206.6884	5.6300e-003	5.0000e-003	208.3205
Total	**0.0692**	**0.0505**	**0.7872**	**2.0400e-003**	**0.2061**	**1.4300e-003**	**0.2075**	**0.0550**	**1.3200e-003**	**0.0563**		**206.6884**	**206.6884**	**5.6300e-003**	**5.0000e-003**	**208.3205**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Brookside Golf Course Improvements (Driving Range) Construction Run

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	91.04	1000sqft	2.09	91,040.00	0
Golf Course	6.91	Acre	6.91	300,999.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2022
Utility Company	Pasadena Water and Power				
CO2 Intensity (lb/MWhr)	872.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - based on information provided by applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on information provided by applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Trips and VMT - assuming 4 vt/water truck/day. Fencing bendor trips based on vendor trip rate for building construction activities and hardscape area.

Grading -

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

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	5462	960
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	20.00	59.00
tblConstructionPhase	NumDays	20.00	23.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00

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	3.7067	39.1033	29.8337	0.0648	19.8838	1.6382	21.4996	10.1632	1.5072	11.6497	0.0000	6,291.3874	6,291.3874	1.9527	0.0175	6,345.4187
Maximum	**3.7067**	**39.1033**	**29.8337**	**0.0648**	**19.8838**	**1.6382**	**21.4996**	**10.1632**	**1.5072**	**11.6497**	**0.0000**	**6,291.3874**	**6,291.3874**	**1.9527**	**0.0175**	**6,345.4187**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7067	39.1033	29.8337	0.0648	8.6128	1.6382	10.2285	4.3753	1.5072	5.8618	0.0000	6,291.3874	6,291.3874	1.9527	0.0175	6,345.4187
Maximum	**3.7067**	**39.1033**	**29.8337**	**0.0648**	**8.6128**	**1.6382**	**10.2285**	**4.3753**	**1.5072**	**5.8618**	**0.0000**	**6,291.3874**	**6,291.3874**	**1.9527**	**0.0175**	**6,345.4187**

	ROG	NOx	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**	**56.68**	**0.00**	**52.42**	**56.95**	**0.00**	**49.68**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2022	6/10/2022	5	30	a
2	Site Preparation	Site Preparation	6/11/2022	7/11/2022	5	21	b
3	Grading	Grading	7/12/2022	9/30/2022	5	59	c
4	Trenching	Trenching	10/1/2022	11/15/2022	5	32	d
5	Fencing	Trenching	10/1/2022	11/15/2022	5	32	e
6	Paving	Paving	11/16/2022	12/16/2022	5	23	f

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Acres of Grading (Site Preparation Phase): 31.5

Acres of Grading (Grading Phase): 177

Acres of Paving: 2.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Fencing	Cranes	1	7.00	231	0.29
Fencing	Forklifts	0	8.00	89	0.20
Fencing	Generator Sets	0	8.00	84	0.74
Fencing	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Fencing	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast 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
Demolition	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fencing	3	8.00	3.00	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

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**		**1.2427**	**1.2427**		**1.1553**	**1.1553**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061
Worker	0.0556	0.0419	0.5421	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		146.8205	146.8205	4.2700e-003	4.0100e-003	148.1225
Total	**0.0633**	**0.2459**	**0.6116**	**2.2300e-003**	**0.1933**	**2.9400e-003**	**0.1962**	**0.0519**	**2.7800e-003**	**0.0546**		**231.0367**	**231.0367**	**7.0700e-003**	**0.0162**	**236.0286**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**		**1.2427**	**1.2427**		**1.1553**	**1.1553**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast 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					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0240	1.8700e-003	0.0259	6.9700e-003	1.7900e-003	8.7700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061
Worker	0.0556	0.0419	0.5421	1.4500e-003	0.1546	1.0700e-003	0.1556	0.0413	9.9000e-004	0.0422		146.8205	146.8205	4.2700e-003	4.0100e-003	148.1225
Total	**0.0633**	**0.2459**	**0.6116**	**2.2300e-003**	**0.1785**	**2.9400e-003**	**0.1815**	**0.0482**	**2.7800e-003**	**0.0510**		**231.0367**	**231.0367**	**7.0700e-003**	**0.0162**	**236.0286**

3.3 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061
Worker	0.0667	0.0502	0.6505	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.1846	176.1846	5.1300e-003	4.8100e-003	177.7470
Total	**0.0745**	**0.2543**	**0.7200**	**2.5200e-003**	**0.2268**	**3.1600e-003**	**0.2300**	**0.0607**	**2.9800e-003**	**0.0637**		**260.4008**	**260.4008**	**7.9300e-003**	**0.0170**	**265.6531**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**8.4034**	**1.6126**	**10.0159**	**4.3188**	**1.4836**	**5.8024**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0240	1.8700e-003	0.0259	6.9700e-003	1.7900e-003	8.7700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061
Worker	0.0667	0.0502	0.6505	1.7400e-003	0.1855	1.2900e-003	0.1867	0.0495	1.1900e-003	0.0507		176.1846	176.1846	5.1300e-003	4.8100e-003	177.7470
Total	**0.0745**	**0.2543**	**0.7200**	**2.5200e-003**	**0.2094**	**3.1600e-003**	**0.2126**	**0.0565**	**2.9800e-003**	**0.0595**		**260.4008**	**260.4008**	**7.9300e-003**	**0.0170**	**265.6531**

3.4 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**9.2036**	**1.6349**	**10.8385**	**3.6538**	**1.5041**	**5.1579**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061
Worker	0.0741	0.0558	0.7227	1.9400e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		195.7606	195.7606	5.7000e-003	5.3500e-003	197.4967
Total	**0.0819**	**0.2598**	**0.7922**	**2.7200e-003**	**0.2492**	**3.3000e-003**	**0.2525**	**0.0667**	**3.1100e-003**	**0.0698**		**279.9769**	**279.9769**	**8.5000e-003**	**0.0175**	**285.4028**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**3.9345**	**1.6349**	**5.5694**	**1.5620**	**1.5041**	**3.0661**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0240	1.8700e-003	0.0259	6.9700e-003	1.7900e-003	8.7700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061
Worker	0.0741	0.0558	0.7227	1.9400e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		195.7606	195.7606	5.7000e-003	5.3500e-003	197.4967
Total	**0.0819**	**0.2598**	**0.7922**	**2.7200e-003**	**0.2300**	**3.3000e-003**	**0.2333**	**0.0620**	**3.1100e-003**	**0.0651**		**279.9769**	**279.9769**	**8.5000e-003**	**0.0175**	**285.4028**

3.5 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	0.7277	6.7594	5.1979	6.7400e-003		0.4789	0.4789		0.4406	0.4406		653.8989	653.8989	0.2115		659.1860
Total	**0.7277**	**6.7594**	**5.1979**	**6.7400e-003**		**0.4789**	**0.4789**		**0.4406**	**0.4406**		**653.8989**	**653.8989**	**0.2115**		**659.1860**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0140	0.1807	4.8000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.0185**	**0.0140**	**0.1807**	**4.8000e-004**	**0.0559**	**3.6000e-004**	**0.0563**	**0.0148**	**3.3000e-004**	**0.0152**		**48.9402**	**48.9402**	**1.4200e-003**	**1.3400e-003**	**49.3742**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7277	6.7594	5.1979	6.7400e-003		0.4789	0.4789		0.4406	0.4406	0.0000	653.8989	653.8989	0.2115		659.1860
Total	**0.7277**	**6.7594**	**5.1979**	**6.7400e-003**		**0.4789**	**0.4789**		**0.4406**	**0.4406**	**0.0000**	**653.8989**	**653.8989**	**0.2115**		**659.1860**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0140	0.1807	4.8000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.0185**	**0.0140**	**0.1807**	**4.8000e-004**	**0.0515**	**3.6000e-004**	**0.0519**	**0.0138**	**3.3000e-004**	**0.0141**		**48.9402**	**48.9402**	**1.4200e-003**	**1.3400e-003**	**49.3742**

3.6 Fencing - 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	0.7472	6.5903	5.3098	0.0103		0.2948	0.2948		0.2763	0.2763		960.0384	960.0384	0.2682		966.7438
Total	**0.7472**	**6.5903**	**5.3098**	**0.0103**		**0.2948**	**0.2948**		**0.2763**	**0.2763**		**960.0384**	**960.0384**	**0.2682**		**966.7438**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8300e-003	0.1530	0.0521	5.9000e-004	0.0192	1.4000e-003	0.0206	5.5300e-003	1.3400e-003	6.8800e-003		63.1622	63.1622	2.1000e-003	9.1100e-003	65.9296
Worker	0.0296	0.0223	0.2891	7.7000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.3043	78.3043	2.2800e-003	2.1400e-003	78.9987
Total	**0.0355**	**0.1753**	**0.3412**	**1.3600e-003**	**0.1086**	**1.9700e-003**	**0.1106**	**0.0292**	**1.8700e-003**	**0.0311**		**141.4665**	**141.4665**	**4.3800e-003**	**0.0113**	**144.9283**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7472	6.5903	5.3098	0.0103		0.2948	0.2948		0.2763	0.2763	0.0000	960.0384	960.0384	0.2682		966.7438
Total	**0.7472**	**6.5903**	**5.3098**	**0.0103**		**0.2948**	**0.2948**		**0.2763**	**0.2763**	**0.0000**	**960.0384**	**960.0384**	**0.2682**		**966.7438**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8300e-003	0.1530	0.0521	5.9000e-004	0.0180	1.4000e-003	0.0194	5.2300e-003	1.3400e-003	6.5700e-003		63.1622	63.1622	2.1000e-003	9.1100e-003	65.9296
Worker	0.0296	0.0223	0.2891	7.7000e-004	0.0824	5.7000e-004	0.0830	0.0220	5.3000e-004	0.0225		78.3043	78.3043	2.2800e-003	2.1400e-003	78.9987
Total	**0.0355**	**0.1753**	**0.3412**	**1.3600e-003**	**0.1004**	**1.9700e-003**	**0.1024**	**0.0272**	**1.8700e-003**	**0.0291**		**141.4665**	**141.4665**	**4.3800e-003**	**0.0113**	**144.9283**

3.7 Paving - 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	1.1910	11.6772	15.0432	0.0239		0.5894	0.5894		0.5439	0.5439		2,283.4348	2,283.4348	0.7219		2,301.4815
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1910**	**11.6772**	**15.0432**	**0.0239**		**0.5894**	**0.5894**		**0.5439**	**0.5439**		**2,283.4348**	**2,283.4348**	**0.7219**		**2,301.4815**

Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0741	0.0558	0.7227	1.9400e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		195.7606	195.7606	5.7000e-003	5.3500e-003	197.4967
Total	**0.0741**	**0.0558**	**0.7227**	**1.9400e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**195.7606**	**195.7606**	**5.7000e-003**	**5.3500e-003**	**197.4967**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1910	11.6772	15.0432	0.0239		0.5894	0.5894		0.5439	0.5439	0.0000	2,283.4348	2,283.4348	0.7219		2,301.4815
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1910**	**11.6772**	**15.0432**	**0.0239**		**0.5894**	**0.5894**		**0.5439**	**0.5439**	**0.0000**	**2,283.4348**	**2,283.4348**	**0.7219**		**2,301.4815**

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Brookside Golf Course Improvements (Driving Range) Construction Run - Los Angeles-South Coast County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0741	0.0558	0.7227	1.9400e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		195.7606	195.7606	5.7000e-003	5.3500e-003	197.4967
Total	**0.0741**	**0.0558**	**0.7227**	**1.9400e-003**	**0.2061**	**1.4300e-003**	**0.2075**	**0.0550**	**1.3200e-003**	**0.0563**		**195.7606**	**195.7606**	**5.7000e-003**	**5.3500e-003**	**197.4967**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Brookside Golf Course Improvements (Mini Golf) Construction Run

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Golf Course	0.49	Acre	0.49	21,518.64	0
Other Non-Asphalt Surfaces	21.50	1000sqft	0.49	21,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2023
Utility Company	Pasadena Water and Power				
CO2 Intensity (lb/MWhr)	872.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - 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

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Grading -

Trips and VMT - assumes 2vt/water truck/day

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

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	37.00
tblConstructionPhase	NumDays	5.00	17.00
tblConstructionPhase	NumDays	1.00	15.00
tblConstructionPhase	PhaseEndDate	1/18/2023	3/28/2023
tblConstructionPhase	PhaseEndDate	6/14/2023	4/20/2023
tblConstructionPhase	PhaseEndDate	1/16/2023	2/3/2023
tblConstructionPhase	PhaseStartDate	1/17/2023	2/4/2023
tblConstructionPhase	PhaseStartDate	6/8/2023	3/29/2023
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	1.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0338	0.3301	0.2593	5.7000e-004	0.1440	0.0151	0.1592	0.0730	0.0140	0.0870	0.0000	49.7930	49.7930	0.0141	2.4000e-004	50.2167
Maximum	**0.0338**	**0.3301**	**0.2593**	**5.7000e-004**	**0.1440**	**0.0151**	**0.1592**	**0.0730**	**0.0140**	**0.0870**	**0.0000**	**49.7930**	**49.7930**	**0.0141**	**2.4000e-004**	**50.2167**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0338	0.3301	0.2593	5.7000e-004	0.0635	0.0151	0.0787	0.0318	0.0140	0.0457	0.0000	49.7929	49.7929	0.0141	2.4000e-004	50.2166
Maximum	**0.0338**	**0.3301**	**0.2593**	**5.7000e-004**	**0.0635**	**0.0151**	**0.0787**	**0.0318**	**0.0140**	**0.0457**	**0.0000**	**49.7929**	**49.7929**	**0.0141**	**2.4000e-004**	**50.2166**

	ROG	NOx	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**	**55.89**	**0.00**	**50.57**	**56.52**	**0.00**	**47.44**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2023**	**3-31-2023**	0.3112	0.3112
2	**4-1-2023**	**6-30-2023**	0.0517	0.0517
		Highest	0.3112	0.3112

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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	Demolition	Demolition	1/1/2023	1/13/2023	5	10	a
2	Site Preparation	Site Preparation	1/14/2023	2/3/2023	5	15	b
3	Grading	Grading	2/4/2023	3/28/2023	5	37	c
4	Trenching	Trenching	3/29/2023	4/11/2023	5	10	d
5	Paving	Paving	3/29/2023	4/20/2023	5	17	e

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 13.88

Acres of Paving: 0.49

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Trenching	Trenchers	1	8.00	78	0.50
Grading	Graders	0	6.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Paving	Paving Equipment	1	7.00	132	0.36

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	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 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.8000e-003	0.0454	0.0383	7.0000e-005		2.1300e-003	2.1300e-003		2.0100e-003	2.0100e-003	0.0000	6.5276	6.5276	1.3700e-003	0.0000	6.5620
Total	**4.8000e-003**	**0.0454**	**0.0383**	**7.0000e-005**		**2.1300e-003**	**2.1300e-003**		**2.0100e-003**	**2.0100e-003**	**0.0000**	**6.5276**	**6.5276**	**1.3700e-003**	**0.0000**	**6.5620**

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Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.0000e-004	1.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1818	0.1818	1.0000e-005	3.0000e-005	0.1898
Worker	1.3000e-004	1.0000e-004	1.3600e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3489	0.3489	1.0000e-005	1.0000e-005	0.3518
Total	**1.4000e-004**	**5.0000e-004**	**1.5100e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.0000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.5307**	**0.5307**	**2.0000e-005**	**4.0000e-005**	**0.5416**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.8000e-003	0.0454	0.0383	7.0000e-005		2.1300e-003	2.1300e-003		2.0100e-003	2.0100e-003	0.0000	6.5276	6.5276	1.3700e-003	0.0000	6.5620
Total	**4.8000e-003**	**0.0454**	**0.0383**	**7.0000e-005**		**2.1300e-003**	**2.1300e-003**		**2.0100e-003**	**2.0100e-003**	**0.0000**	**6.5276**	**6.5276**	**1.3700e-003**	**0.0000**	**6.5620**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.0000e-004	1.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1818	0.1818	1.0000e-005	3.0000e-005	0.1898
Worker	1.3000e-004	1.0000e-004	1.3600e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3489	0.3489	1.0000e-005	1.0000e-005	0.3518
Total	**1.4000e-004**	**5.0000e-004**	**1.5100e-003**	**0.0000**	**4.6000e-004**	**0.0000**	**4.7000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.5307**	**0.5307**	**2.0000e-005**	**4.0000e-005**	**0.5416**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2100e-003	0.0643	0.0398	9.0000e-005		2.9500e-003	2.9500e-003		2.7100e-003	2.7100e-003	0.0000	7.6126	7.6126	2.4600e-003	0.0000	7.6742
Total	**6.2100e-003**	**0.0643**	**0.0398**	**9.0000e-005**	**0.0491**	**2.9500e-003**	**0.0521**	**0.0253**	**2.7100e-003**	**0.0280**	**0.0000**	**7.6126**	**7.6126**	**2.4600e-003**	**0.0000**	**7.6742**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.0000e-004	2.3000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2727	0.2727	1.0000e-005	4.0000e-005	0.2847
Worker	1.2000e-004	9.0000e-005	1.2800e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3271	0.3271	1.0000e-005	1.0000e-005	0.3299
Total	**1.4000e-004**	**6.9000e-004**	**1.5100e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.5998**	**0.5998**	**2.0000e-005**	**5.0000e-005**	**0.6145**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0210	0.0000	0.0210	0.0108	0.0000	0.0108	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2100e-003	0.0643	0.0398	9.0000e-005		2.9500e-003	2.9500e-003		2.7100e-003	2.7100e-003	0.0000	7.6126	7.6126	2.4600e-003	0.0000	7.6741
Total	**6.2100e-003**	**0.0643**	**0.0398**	**9.0000e-005**	**0.0210**	**2.9500e-003**	**0.0240**	**0.0108**	**2.7100e-003**	**0.0135**	**0.0000**	**7.6126**	**7.6126**	**2.4600e-003**	**0.0000**	**7.6741**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.0000e-004	2.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2727	0.2727	1.0000e-005	4.0000e-005	0.2847
Worker	1.2000e-004	9.0000e-005	1.2800e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3271	0.3271	1.0000e-005	1.0000e-005	0.3299
Total	**1.4000e-004**	**6.9000e-004**	**1.5100e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.7000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.5998**	**0.5998**	**2.0000e-005**	**5.0000e-005**	**0.6145**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0909	0.0000	0.0909	0.0467	0.0000	0.0467	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0157	0.1608	0.1003	2.6000e-004		6.9200e-003	6.9200e-003		6.3700e-003	6.3700e-003	0.0000	22.4987	22.4987	7.2800e-003	0.0000	22.6806
Total	**0.0157**	**0.1608**	**0.1003**	**2.6000e-004**	**0.0909**	**6.9200e-003**	**0.0978**	**0.0467**	**6.3700e-003**	**0.0531**	**0.0000**	**22.4987**	**22.4987**	**7.2800e-003**	**0.0000**	**22.6806**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4900e-003	5.6000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.4000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6727	0.6727	2.0000e-005	1.0000e-004	0.7022
Worker	4.7000e-004	3.7000e-004	5.0400e-003	1.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.2909	1.2909	3.0000e-005	3.0000e-005	1.3018
Total	**5.1000e-004**	**1.8600e-003**	**5.6000e-003**	**2.0000e-005**	**1.8500e-003**	**2.0000e-005**	**1.8700e-003**	**5.0000e-004**	**2.0000e-005**	**5.1000e-004**	**0.0000**	**1.9637**	**1.9637**	**5.0000e-005**	**1.3000e-004**	**2.0040**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0389	0.0000	0.0389	0.0200	0.0000	0.0200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0157	0.1608	0.1003	2.6000e-004		6.9200e-003	6.9200e-003		6.3700e-003	6.3700e-003	0.0000	22.4987	22.4987	7.2800e-003	0.0000	22.6806
Total	**0.0157**	**0.1608**	**0.1003**	**2.6000e-004**	**0.0389**	**6.9200e-003**	**0.0458**	**0.0200**	**6.3700e-003**	**0.0263**	**0.0000**	**22.4987**	**22.4987**	**7.2800e-003**	**0.0000**	**22.6806**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4900e-003	5.6000e-004	1.0000e-005	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6727	0.6727	2.0000e-005	1.0000e-004	0.7022
Worker	4.7000e-004	3.7000e-004	5.0400e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.2909	1.2909	3.0000e-005	3.0000e-005	1.3018
Total	**5.1000e-004**	**1.8600e-003**	**5.6000e-003**	**2.0000e-005**	**1.7200e-003**	**2.0000e-005**	**1.7400e-003**	**4.6000e-004**	**2.0000e-005**	**4.8000e-004**	**0.0000**	**1.9637**	**1.9637**	**5.0000e-005**	**1.3000e-004**	**2.0040**

3.5 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7300e-003	0.0162	0.0130	2.0000e-005		1.1200e-003	1.1200e-003		1.0300e-003	1.0300e-003	0.0000	1.4842	1.4842	4.8000e-004	0.0000	1.4962
Total	**1.7300e-003**	**0.0162**	**0.0130**	**2.0000e-005**		**1.1200e-003**	**1.1200e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**1.4842**	**1.4842**	**4.8000e-004**	**0.0000**	**1.4962**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1308	0.1308	0.0000	0.0000	0.1319
Total	**5.0000e-005**	**4.0000e-005**	**5.1000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**1.7000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1308**	**0.1308**	**0.0000**	**0.0000**	**0.1319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7300e-003	0.0162	0.0130	2.0000e-005		1.1200e-003	1.1200e-003		1.0300e-003	1.0300e-003	0.0000	1.4842	1.4842	4.8000e-004	0.0000	1.4962
Total	**1.7300e-003**	**0.0162**	**0.0130**	**2.0000e-005**		**1.1200e-003**	**1.1200e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**1.4842**	**1.4842**	**4.8000e-004**	**0.0000**	**1.4962**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	5.1000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1308	0.1308	0.0000	0.0000	0.1319
Total	**5.0000e-005**	**4.0000e-005**	**5.1000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1308**	**0.1308**	**0.0000**	**0.0000**	**0.1319**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2000e-003	0.0401	0.0559	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7034	7.7034	2.4300e-003	0.0000	7.7641
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.2000e-003**	**0.0401**	**0.0559**	**9.0000e-005**		**1.9800e-003**	**1.9800e-003**		**1.8300e-003**	**1.8300e-003**	**0.0000**	**7.7034**	**7.7034**	**2.4300e-003**	**0.0000**	**7.7641**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.1000e-004	2.9000e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.7414	0.7414	2.0000e-005	2.0000e-005	0.7477
Total	**2.7000e-004**	**2.1000e-004**	**2.9000e-003**	**1.0000e-005**	**9.3000e-004**	**1.0000e-005**	**9.4000e-004**	**2.5000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7414**	**0.7414**	**2.0000e-005**	**2.0000e-005**	**0.7477**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.2000e-003	0.0401	0.0559	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7034	7.7034	2.4300e-003	0.0000	7.7641
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.2000e-003**	**0.0401**	**0.0559**	**9.0000e-005**		**1.9800e-003**	**1.9800e-003**		**1.8300e-003**	**1.8300e-003**	**0.0000**	**7.7034**	**7.7034**	**2.4300e-003**	**0.0000**	**7.7641**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.1000e-004	2.9000e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.7414	0.7414	2.0000e-005	2.0000e-005	0.7477
Total	**2.7000e-004**	**2.1000e-004**	**2.9000e-003**	**1.0000e-005**	**8.6000e-004**	**1.0000e-005**	**8.6000e-004**	**2.3000e-004**	**1.0000e-005**	**2.3000e-004**	**0.0000**	**0.7414**	**0.7414**	**2.0000e-005**	**2.0000e-005**	**0.7477**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

Brookside Golf Course Improvements (Mini Golf) Construction Run

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Golf Course	0.49	Acre	0.49	21,518.64	0
Other Non-Asphalt Surfaces	21.50	1000sqft	0.49	21,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2023
Utility Company	Pasadena Water and Power				
CO2 Intensity (lb/MWhr)	872.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - 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

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Grading -

Trips and VMT - assumes 2vt/water truck/day

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	37.00
tblConstructionPhase	NumDays	5.00	17.00
tblConstructionPhase	NumDays	1.00	15.00
tblConstructionPhase	PhaseEndDate	1/18/2023	3/28/2023
tblConstructionPhase	PhaseEndDate	6/14/2023	4/20/2023
tblConstructionPhase	PhaseEndDate	1/16/2023	2/3/2023
tblConstructionPhase	PhaseStartDate	1/17/2023	2/4/2023
tblConstructionPhase	PhaseStartDate	6/8/2023	3/29/2023
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	1.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.9886	9.1760	9.6433	0.0162	6.6210	0.4582	7.0147	3.3860	0.4224	3.7482	0.0000	1,559.1611	1,559.1611	0.4369	7.6100e-003	1,569.0853
Maximum	**0.9886**	**9.1760**	**9.6433**	**0.0162**	**6.6210**	**0.4582**	**7.0147**	**3.3860**	**0.4224**	**3.7482**	**0.0000**	**1,559.1611**	**1,559.1611**	**0.4369**	**7.6100e-003**	**1,569.0853**

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					
2023	0.9886	9.1760	9.6433	0.0162	2.8646	0.4582	3.2583	1.4568	0.4224	1.8191	0.0000	1,559.1611	1,559.1611	0.4369	7.6100e-003	1,569.0853
Maximum	**0.9886**	**9.1760**	**9.6433**	**0.0162**	**2.8646**	**0.4582**	**3.2583**	**1.4568**	**0.4224**	**1.8191**	**0.0000**	**1,559.1611**	**1,559.1611**	**0.4369**	**7.6100e-003**	**1,569.0853**

	ROG	NOx	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**	**56.73**	**0.00**	**53.55**	**56.97**	**0.00**	**51.47**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/13/2023	5	10	a
2	Site Preparation	Site Preparation	1/14/2023	2/3/2023	5	15	b
3	Grading	Grading	2/4/2023	3/28/2023	5	37	c
4	Trenching	Trenching	3/29/2023	4/11/2023	5	10	d
5	Paving	Paving	3/29/2023	4/20/2023	5	17	e

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 13.88

Acres of Paving: 0.49

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Trenching	Trenchers	1	8.00	78	0.50
Grading	Graders	0	6.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

Paving	Paving Equipment	1	7.00	132	0.36
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	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

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9607	9.0814	7.6606	0.0150		0.4258	0.4258		0.4020	0.4020		1,439.0986	1,439.0986	0.3030		1,446.6724
Total	**0.9607**	**9.0814**	**7.6606**	**0.0150**		**0.4258**	**0.4258**		**0.4020**	**0.4020**		**1,439.0986**	**1,439.0986**	**0.3030**		**1,446.6724**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	**0.0279**	**0.0946**	**0.3189**	**1.1600e-003**	**0.1022**	**9.3000e-004**	**0.1032**	**0.0274**	**8.7000e-004**	**0.0283**		**120.0625**	**120.0625**	**3.3600e-003**	**7.6100e-003**	**122.4129**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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	0.9607	9.0814	7.6606	0.0150		0.4258	0.4258		0.4020	0.4020	0.0000	1,439.0986	1,439.0986	0.3030		1,446.6724
Total	**0.9607**	**9.0814**	**7.6606**	**0.0150**		**0.4258**	**0.4258**		**0.4020**	**0.4020**	**0.0000**	**1,439.0986**	**1,439.0986**	**0.3030**		**1,446.6724**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	0.0120	3.9000e-004	0.0124	3.4900e-003	3.7000e-004	3.8600e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0824	5.4000e-004	0.0830	0.0220	5.0000e-004	0.0225		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	**0.0279**	**0.0946**	**0.3189**	**1.1600e-003**	**0.0944**	**9.3000e-004**	**0.0953**	**0.0255**	**8.7000e-004**	**0.0264**		**120.0625**	**120.0625**	**3.3600e-003**	**7.6100e-003**	**122.4129**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.8280	8.5791	5.3012	0.0116		0.3930	0.3930		0.3615	0.3615		1,118.8599	1,118.8599	0.3619		1,127.9065
Total	**0.8280**	**8.5791**	**5.3012**	**0.0116**	**6.5523**	**0.3930**	**6.9453**	**3.3675**	**0.3615**	**3.7290**		**1,118.8599**	**1,118.8599**	**0.3619**		**1,127.9065**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0160	0.0112	0.1807	4.9000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.1000e-004	0.0151		50.0038	50.0038	1.2600e-003	1.1500e-003	50.3792
Total	**0.0183**	**0.0879**	**0.2104**	**8.6000e-004**	**0.0687**	**7.3000e-004**	**0.0694**	**0.0185**	**6.8000e-004**	**0.0192**		**90.0603**	**90.0603**	**2.6000e-003**	**6.9100e-003**	**92.1854**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	0.8280	8.5791	5.3012	0.0116		0.3930	0.3930		0.3615	0.3615	0.0000	1,118.8599	1,118.8599	0.3619		1,127.9065
Total	**0.8280**	**8.5791**	**5.3012**	**0.0116**	**2.8011**	**0.3930**	**3.1941**	**1.4396**	**0.3615**	**1.8011**	**0.0000**	**1,118.8599**	**1,118.8599**	**0.3619**		**1,127.9065**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	0.0120	3.9000e-004	0.0124	3.4900e-003	3.7000e-004	3.8600e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0160	0.0112	0.1807	4.9000e-004	0.0515	3.4000e-004	0.0519	0.0138	3.1000e-004	0.0141		50.0038	50.0038	1.2600e-003	1.1500e-003	50.3792
Total	**0.0183**	**0.0879**	**0.2104**	**8.6000e-004**	**0.0635**	**7.3000e-004**	**0.0642**	**0.0172**	**6.8000e-004**	**0.0179**		**90.0603**	**90.0603**	**2.6000e-003**	**6.9100e-003**	**92.1854**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9144	0.0000	4.9144	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	0.8498	8.6900	5.4202	0.0138		0.3740	0.3740		0.3441	0.3441		1,340.5717	1,340.5717	0.4336		1,351.4109
Total	**0.8498**	**8.6900**	**5.4202**	**0.0138**	**4.9144**	**0.3740**	**5.2884**	**2.5256**	**0.3441**	**2.8697**		**1,340.5717**	**1,340.5717**	**0.4336**		**1,351.4109**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	**0.0279**	**0.0946**	**0.3189**	**1.1600e-003**	**0.1022**	**9.3000e-004**	**0.1032**	**0.0274**	**8.7000e-004**	**0.0283**		**120.0625**	**120.0625**	**3.3600e-003**	**7.6100e-003**	**122.4129**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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					2.1009	0.0000	2.1009	1.0797	0.0000	1.0797			0.0000			0.0000
Off-Road	0.8498	8.6900	5.4202	0.0138		0.3740	0.3740		0.3441	0.3441	0.0000	1,340.5717	1,340.5717	0.4336		1,351.4109
Total	**0.8498**	**8.6900**	**5.4202**	**0.0138**	**2.1009**	**0.3740**	**2.4749**	**1.0797**	**0.3441**	**1.4238**	**0.0000**	**1,340.5717**	**1,340.5717**	**0.4336**		**1,351.4109**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	0.0120	3.9000e-004	0.0124	3.4900e-003	3.7000e-004	3.8600e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0824	5.4000e-004	0.0830	0.0220	5.0000e-004	0.0225		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	**0.0279**	**0.0946**	**0.3189**	**1.1600e-003**	**0.0944**	**9.3000e-004**	**0.0953**	**0.0255**	**8.7000e-004**	**0.0264**		**120.0625**	**120.0625**	**3.3600e-003**	**7.6100e-003**	**122.4129**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

3.5 Trenching - 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	0.3467	3.2332	2.5921	3.3800e-003		0.2243	0.2243		0.2064	0.2064		327.1999	327.1999	0.1058		329.8454
Total	**0.3467**	**3.2332**	**2.5921**	**3.3800e-003**		**0.2243**	**0.2243**		**0.2064**	**0.2064**		**327.1999**	**327.1999**	**0.1058**		**329.8454**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-003	6.6900e-003	0.1084	3.0000e-004	0.0335	2.0000e-004	0.0337	8.8900e-003	1.9000e-004	9.0800e-003		30.0023	30.0023	7.6000e-004	6.9000e-004	30.2275
Total	**9.6000e-003**	**6.6900e-003**	**0.1084**	**3.0000e-004**	**0.0335**	**2.0000e-004**	**0.0337**	**8.8900e-003**	**1.9000e-004**	**9.0800e-003**		**30.0023**	**30.0023**	**7.6000e-004**	**6.9000e-004**	**30.2275**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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	0.3467	3.2332	2.5921	3.3800e-003		0.2243	0.2243		0.2064	0.2064	0.0000	327.1999	327.1999	0.1058		329.8454
Total	**0.3467**	**3.2332**	**2.5921**	**3.3800e-003**		**0.2243**	**0.2243**		**0.2064**	**0.2064**	**0.0000**	**327.1999**	**327.1999**	**0.1058**		**329.8454**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-003	6.6900e-003	0.1084	3.0000e-004	0.0309	2.0000e-004	0.0311	8.2500e-003	1.9000e-004	8.4300e-003		30.0023	30.0023	7.6000e-004	6.9000e-004	30.2275
Total	**9.6000e-003**	**6.6900e-003**	**0.1084**	**3.0000e-004**	**0.0309**	**2.0000e-004**	**0.0311**	**8.2500e-003**	**1.9000e-004**	**8.4300e-003**		**30.0023**	**30.0023**	**7.6000e-004**	**6.9000e-004**	**30.2275**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Summer

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

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4939	4.7159	6.5814	0.0105		0.2330	0.2330		0.2152	0.2152		999.0073	999.0073	0.3148		1,006.8768
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4939**	**4.7159**	**6.5814**	**0.0105**		**0.2330**	**0.2330**		**0.2152**	**0.2152**		**999.0073**	**999.0073**	**0.3148**		**1,006.8768**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	**0.0320**	**0.0223**	**0.3614**	**9.9000e-004**	**0.1118**	**6.7000e-004**	**0.1125**	**0.0296**	**6.2000e-004**	**0.0303**		**100.0075**	**100.0075**	**2.5200e-003**	**2.3100e-003**	**100.7583**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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	0.4939	4.7159	6.5814	0.0105		0.2330	0.2330		0.2152	0.2152	0.0000	999.0073	999.0073	0.3148		1,006.8768
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4939**	**4.7159**	**6.5814**	**0.0105**		**0.2330**	**0.2330**		**0.2152**	**0.2152**	**0.0000**	**999.0073**	**999.0073**	**0.3148**		**1,006.8768**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0320	0.0223	0.3614	9.9000e-004	0.1030	6.7000e-004	0.1037	0.0275	6.2000e-004	0.0281		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	**0.0320**	**0.0223**	**0.3614**	**9.9000e-004**	**0.1030**	**6.7000e-004**	**0.1037**	**0.0275**	**6.2000e-004**	**0.0281**		**100.0075**	**100.0075**	**2.5200e-003**	**2.3100e-003**	**100.7583**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

Brookside Golf Course Improvements (Mini Golf) Construction Run

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Golf Course	0.49	Acre	0.49	21,518.64	0
Other Non-Asphalt Surfaces	21.50	1000sqft	0.49	21,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2023
Utility Company	Pasadena Water and Power				
CO2 Intensity (lb/MWhr)	872.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - 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

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Grading -

Trips and VMT - assumes 2vt/water truck/day

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

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	37.00
tblConstructionPhase	NumDays	5.00	17.00
tblConstructionPhase	NumDays	1.00	15.00
tblConstructionPhase	PhaseEndDate	1/18/2023	3/28/2023
tblConstructionPhase	PhaseEndDate	6/14/2023	4/20/2023
tblConstructionPhase	PhaseEndDate	1/16/2023	2/3/2023
tblConstructionPhase	PhaseStartDate	1/17/2023	2/4/2023
tblConstructionPhase	PhaseStartDate	6/8/2023	3/29/2023
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	1.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.9905	9.1815	9.6053	0.0161	6.6210	0.4582	7.0147	3.3860	0.4224	3.7482	0.0000	1,555.0109	1,555.0109	0.4370	7.7400e-003	1,564.9778
Maximum	**0.9905**	**9.1815**	**9.6053**	**0.0161**	**6.6210**	**0.4582**	**7.0147**	**3.3860**	**0.4224**	**3.7482**	**0.0000**	**1,555.0109**	**1,555.0109**	**0.4370**	**7.7400e-003**	**1,564.9778**

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					
2023	0.9905	9.1815	9.6053	0.0161	2.8646	0.4582	3.2583	1.4568	0.4224	1.8191	0.0000	1,555.0109	1,555.0109	0.4370	7.7400e-003	1,564.9778
Maximum	**0.9905**	**9.1815**	**9.6053**	**0.0161**	**2.8646**	**0.4582**	**3.2583**	**1.4568**	**0.4224**	**1.8191**	**0.0000**	**1,555.0109**	**1,555.0109**	**0.4370**	**7.7400e-003**	**1,564.9778**

	ROG	NOx	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**	**56.73**	**0.00**	**53.55**	**56.97**	**0.00**	**51.47**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/13/2023	5	10	a
2	Site Preparation	Site Preparation	1/14/2023	2/3/2023	5	15	b
3	Grading	Grading	2/4/2023	3/28/2023	5	37	c
4	Trenching	Trenching	3/29/2023	4/11/2023	5	10	d
5	Paving	Paving	3/29/2023	4/20/2023	5	17	e

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 13.88

Acres of Paving: 0.49

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Trenching	Trenchers	1	8.00	78	0.50
Grading	Graders	0	6.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

Paving	Paving Equipment	1	7.00	132	0.36
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	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

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9607	9.0814	7.6606	0.0150		0.4258	0.4258		0.4020	0.4020		1,439.0986	1,439.0986	0.3030		1,446.6724
Total	**0.9607**	**9.0814**	**7.6606**	**0.0150**		**0.4258**	**0.4258**		**0.4020**	**0.4020**		**1,439.0986**	**1,439.0986**	**0.3030**		**1,446.6724**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	**0.0297**	**0.1001**	**0.2964**	**1.1200e-003**	**0.1022**	**9.3000e-004**	**0.1032**	**0.0274**	**8.7000e-004**	**0.0283**		**115.9124**	**115.9124**	**3.3900e-003**	**7.7400e-003**	**118.3053**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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	0.9607	9.0814	7.6606	0.0150		0.4258	0.4258		0.4020	0.4020	0.0000	1,439.0986	1,439.0986	0.3030		1,446.6724
Total	**0.9607**	**9.0814**	**7.6606**	**0.0150**		**0.4258**	**0.4258**		**0.4020**	**0.4020**	**0.0000**	**1,439.0986**	**1,439.0986**	**0.3030**		**1,446.6724**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	0.0120	3.9000e-004	0.0124	3.4900e-003	3.7000e-004	3.8600e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0824	5.4000e-004	0.0830	0.0220	5.0000e-004	0.0225		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	**0.0297**	**0.1001**	**0.2964**	**1.1200e-003**	**0.0944**	**9.3000e-004**	**0.0953**	**0.0255**	**8.7000e-004**	**0.0264**		**115.9124**	**115.9124**	**3.3900e-003**	**7.7400e-003**	**118.3053**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.8280	8.5791	5.3012	0.0116		0.3930	0.3930		0.3615	0.3615		1,118.8599	1,118.8599	0.3619		1,127.9065
Total	**0.8280**	**8.5791**	**5.3012**	**0.0116**	**6.5523**	**0.3930**	**6.9453**	**3.3675**	**0.3615**	**3.7290**		**1,118.8599**	**1,118.8599**	**0.3619**		**1,127.9065**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0172	0.0123	0.1661	4.7000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.1000e-004	0.0151		47.3677	47.3677	1.2800e-003	1.2300e-003	47.7670
Total	**0.0194**	**0.0927**	**0.1968**	**8.4000e-004**	**0.0687**	**7.3000e-004**	**0.0694**	**0.0185**	**6.8000e-004**	**0.0192**		**87.4917**	**87.4917**	**2.6200e-003**	**7.0000e-003**	**89.6452**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	0.8280	8.5791	5.3012	0.0116		0.3930	0.3930		0.3615	0.3615	0.0000	1,118.8599	1,118.8599	0.3619		1,127.9065
Total	**0.8280**	**8.5791**	**5.3012**	**0.0116**	**2.8011**	**0.3930**	**3.1941**	**1.4396**	**0.3615**	**1.8011**	**0.0000**	**1,118.8599**	**1,118.8599**	**0.3619**		**1,127.9065**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	0.0120	3.9000e-004	0.0124	3.4900e-003	3.7000e-004	3.8600e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0172	0.0123	0.1661	4.7000e-004	0.0515	3.4000e-004	0.0519	0.0138	3.1000e-004	0.0141		47.3677	47.3677	1.2800e-003	1.2300e-003	47.7670
Total	**0.0194**	**0.0927**	**0.1968**	**8.4000e-004**	**0.0635**	**7.3000e-004**	**0.0642**	**0.0172**	**6.8000e-004**	**0.0179**		**87.4917**	**87.4917**	**2.6200e-003**	**7.0000e-003**	**89.6452**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9144	0.0000	4.9144	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	0.8498	8.6900	5.4202	0.0138		0.3740	0.3740		0.3441	0.3441		1,340.5717	1,340.5717	0.4336		1,351.4109
Total	**0.8498**	**8.6900**	**5.4202**	**0.0138**	**4.9144**	**0.3740**	**5.2884**	**2.5256**	**0.3441**	**2.8697**		**1,340.5717**	**1,340.5717**	**0.4336**		**1,351.4109**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	**0.0297**	**0.1001**	**0.2964**	**1.1200e-003**	**0.1022**	**9.3000e-004**	**0.1032**	**0.0274**	**8.7000e-004**	**0.0283**		**115.9124**	**115.9124**	**3.3900e-003**	**7.7400e-003**	**118.3053**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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					2.1009	0.0000	2.1009	1.0797	0.0000	1.0797			0.0000			0.0000
Off-Road	0.8498	8.6900	5.4202	0.0138		0.3740	0.3740		0.3441	0.3441	0.0000	1,340.5717	1,340.5717	0.4336		1,351.4109
Total	**0.8498**	**8.6900**	**5.4202**	**0.0138**	**2.1009**	**0.3740**	**2.4749**	**1.0797**	**0.3441**	**1.4238**	**0.0000**	**1,340.5717**	**1,340.5717**	**0.4336**		**1,351.4109**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	0.0120	3.9000e-004	0.0124	3.4900e-003	3.7000e-004	3.8600e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0824	5.4000e-004	0.0830	0.0220	5.0000e-004	0.0225		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	**0.0297**	**0.1001**	**0.2964**	**1.1200e-003**	**0.0944**	**9.3000e-004**	**0.0953**	**0.0255**	**8.7000e-004**	**0.0264**		**115.9124**	**115.9124**	**3.3900e-003**	**7.7400e-003**	**118.3053**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

3.5 Trenching - 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	0.3467	3.2332	2.5921	3.3800e-003		0.2243	0.2243		0.2064	0.2064		327.1999	327.1999	0.1058		329.8454
Total	**0.3467**	**3.2332**	**2.5921**	**3.3800e-003**		**0.2243**	**0.2243**		**0.2064**	**0.2064**		**327.1999**	**327.1999**	**0.1058**		**329.8454**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.3900e-003	0.0997	2.8000e-004	0.0335	2.0000e-004	0.0337	8.8900e-003	1.9000e-004	9.0800e-003		28.4206	28.4206	7.7000e-004	7.4000e-004	28.6602
Total	**0.0103**	**7.3900e-003**	**0.0997**	**2.8000e-004**	**0.0335**	**2.0000e-004**	**0.0337**	**8.8900e-003**	**1.9000e-004**	**9.0800e-003**		**28.4206**	**28.4206**	**7.7000e-004**	**7.4000e-004**	**28.6602**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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	0.3467	3.2332	2.5921	3.3800e-003		0.2243	0.2243		0.2064	0.2064	0.0000	327.1999	327.1999	0.1058		329.8454
Total	**0.3467**	**3.2332**	**2.5921**	**3.3800e-003**		**0.2243**	**0.2243**		**0.2064**	**0.2064**	**0.0000**	**327.1999**	**327.1999**	**0.1058**		**329.8454**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.3900e-003	0.0997	2.8000e-004	0.0309	2.0000e-004	0.0311	8.2500e-003	1.9000e-004	8.4300e-003		28.4206	28.4206	7.7000e-004	7.4000e-004	28.6602
Total	**0.0103**	**7.3900e-003**	**0.0997**	**2.8000e-004**	**0.0309**	**2.0000e-004**	**0.0311**	**8.2500e-003**	**1.9000e-004**	**8.4300e-003**		**28.4206**	**28.4206**	**7.7000e-004**	**7.4000e-004**	**28.6602**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast County, Winter

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

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4939	4.7159	6.5814	0.0105		0.2330	0.2330		0.2152	0.2152		999.0073	999.0073	0.3148		1,006.8768
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4939**	**4.7159**	**6.5814**	**0.0105**		**0.2330**	**0.2330**		**0.2152**	**0.2152**		**999.0073**	**999.0073**	**0.3148**		**1,006.8768**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	**0.0344**	**0.0246**	**0.3322**	**9.4000e-004**	**0.1118**	**6.7000e-004**	**0.1125**	**0.0296**	**6.2000e-004**	**0.0303**		**94.7354**	**94.7354**	**2.5600e-003**	**2.4700e-003**	**95.5339**

Brookside Golf Course Improvements (Mini Golf) Construction Run - Los Angeles-South Coast 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	0.4939	4.7159	6.5814	0.0105		0.2330	0.2330		0.2152	0.2152	0.0000	999.0073	999.0073	0.3148		1,006.8768
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4939**	**4.7159**	**6.5814**	**0.0105**		**0.2330**	**0.2330**		**0.2152**	**0.2152**	**0.0000**	**999.0073**	**999.0073**	**0.3148**		**1,006.8768**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0246	0.3322	9.4000e-004	0.1030	6.7000e-004	0.1037	0.0275	6.2000e-004	0.0281		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	**0.0344**	**0.0246**	**0.3322**	**9.4000e-004**	**0.1030**	**6.7000e-004**	**0.1037**	**0.0275**	**6.2000e-004**	**0.0281**		**94.7354**	**94.7354**	**2.5600e-003**	**2.4700e-003**	**95.5339**

CalEEMod Operations Model

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Brookside Golf Course Improvements Operational Run

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	112.54	1000sqft	2.58	112,540.00	0
Golf Course	7.40	Acre	7.40	322,518.24	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2023
Utility Company	Pasadena Water and Power				
CO2 Intensity (lb/MWhr)	872.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase -

Vehicle Trips - based on net increase in trips from applicant

Area Coating - no parking area assumed for project

Water And Wastewater - Sewage generation rates based on a City of LA CEQA Thresholds for a golf course lobby. Considers only new generation from Mini Golf Course

Solid Waste - considers only new generation from Mini Golf Course operations. Assumes driving range operations is intended to meet demand currently at the golf course

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	6752	0
tblLandUse	LandUseSquareFeet	322,344.00	322,518.24
tblSolidWaste	SolidWasteGenerationRate	6.88	0.46

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	ST_TR	3.74	54.50
tblVehicleTrips	SU_TR	3.74	54.50
tblVehicleTrips	WD_TR	3.74	54.50
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	627,800.00
tblWater	OutdoorWaterUseRate	8,816,961.99	0.00
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	0.0105	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9800e-003	2.9800e-003	1.0000e-005	0.0000	3.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2388	0.2924	2.6302	5.7700e-003	0.5968	4.2200e-003	0.6010	0.1592	3.9200e-003	0.1631	0.0000	539.1676	539.1676	0.0354	0.0228	546.8472
Waste						0.0000	0.0000		0.0000	0.0000	0.0934	0.0000	0.0934	5.5200e-003	0.0000	0.2313
Water						0.0000	0.0000		0.0000	0.0000	0.2221	3.2370	3.4591	8.9000e-004	5.0000e-004	3.6296
Total	**0.2492**	**0.2924**	**2.6317**	**5.7700e-003**	**0.5968**	**4.2300e-003**	**0.6010**	**0.1592**	**3.9300e-003**	**0.1631**	**0.3155**	**542.4075**	**542.7230**	**0.0419**	**0.0233**	**550.7113**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0105	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9800e-003	2.9800e-003	1.0000e-005	0.0000	3.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2388	0.2924	2.6302	5.7700e-003	0.5968	4.2200e-003	0.6010	0.1592	3.9200e-003	0.1631	0.0000	539.1676	539.1676	0.0354	0.0228	546.8472
Waste						0.0000	0.0000		0.0000	0.0000	0.0934	0.0000	0.0934	5.5200e-003	0.0000	0.2313
Water						0.0000	0.0000		0.0000	0.0000	0.2221	3.2370	3.4591	8.9000e-004	5.0000e-004	3.6296
Total	**0.2492**	**0.2924**	**2.6317**	**5.7700e-003**	**0.5968**	**4.2300e-003**	**0.6010**	**0.1592**	**3.9300e-003**	**0.1631**	**0.3155**	**542.4075**	**542.7230**	**0.0419**	**0.0233**	**550.7113**

	ROG	NOx	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	0.2388	0.2924	2.6302	5.7700e-003	0.5968	4.2200e-003	0.6010	0.1592	3.9200e-003	0.1631	0.0000	539.1676	539.1676	0.0354	0.0228	546.8472
Unmitigated	0.2388	0.2924	2.6302	5.7700e-003	0.5968	4.2200e-003	0.6010	0.1592	3.9200e-003	0.1631	0.0000	539.1676	539.1676	0.0354	0.0228	546.8472

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Golf Course	403.30	403.30	403.30	1,588,536	1,588,536
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	403.30	403.30	403.30	1,588,536	1,588,536

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
Golf Course	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Other Non-Asphalt Surfaces	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
Golf Course	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

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					
Golf Course	0	0.0000	0.0000	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Golf Course	0	0.0000	0.0000	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0105	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9800e-003	2.9800e-003	1.0000e-005	0.0000	3.1700e-003
Unmitigated	0.0105	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9800e-003	2.9800e-003	1.0000e-005	0.0000	3.1700e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9800e-003	2.9800e-003	1.0000e-005	0.0000	3.1700e-003
Total	**0.0105**	**1.0000e-005**	**1.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9800e-003**	**2.9800e-003**	**1.0000e-005**	**0.0000**	**3.1700e-003**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9800e-003	2.9800e-003	1.0000e-005	0.0000	3.1700e-003
Total	**0.0105**	**1.0000e-005**	**1.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9800e-003**	**2.9800e-003**	**1.0000e-005**	**0.0000**	**3.1700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.4591	8.9000e-004	5.0000e-004	3.6296
Unmitigated	3.4591	8.9000e-004	5.0000e-004	3.6296

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Golf Course	0.6278 / 0	3.4591	8.9000e-004	5.0000e-004	3.6296
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**3.4591**	**8.9000e-004**	**5.0000e-004**	**3.6296**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Golf Course	0.6278 / 0	3.4591	8.9000e-004	5.0000e-004	3.6296
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**3.4591**	**8.9000e-004**	**5.0000e-004**	**3.6296**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0934	5.5200e-003	0.0000	0.2313
Unmitigated	0.0934	5.5200e-003	0.0000	0.2313

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Golf Course	0.46	0.0934	5.5200e-003	0.0000	0.2313
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0934**	**5.5200e-003**	**0.0000**	**0.2313**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Golf Course	0.46	0.0934	5.5200e-003	0.0000	0.2313
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0934**	**5.5200e-003**	**0.0000**	**0.2313**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Brookside Golf Course Improvements Operational Run

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	112.54	1000sqft	2.58	112,540.00	0
Golf Course	7.40	Acre	7.40	322,518.24	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2023
Utility Company	Pasadena Water and Power				
CO2 Intensity (lb/MWhr)	872.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase -

Vehicle Trips - based on net increase in trips from applicant

Area Coating - no parking area assumed for project

Water And Wastewater - Sewage generation rates based on a City of LA CEQA Thresholds for a golf course lobby. Considers only new generation from Mini Golf Course

Solid Waste - considers only new generation from Mini Golf Course operations. Assumes driving range operations is intended to meet demand currently at the golf course

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	6752	0
tblLandUse	LandUseSquareFeet	322,344.00	322,518.24

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblSolidWaste	SolidWasteGenerationRate	6.88	0.46
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	ST_TR	3.74	54.50
tblVehicleTrips	SU_TR	3.74	54.50
tblVehicleTrips	WD_TR	3.74	54.50
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	627,800.00
tblWater	OutdoorWaterUseRate	8,816,961.99	0.00
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	0.0576	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.3534	1.4641	14.7258	0.0328	3.3441	0.0232	3.3673	0.8907	0.0215	0.9123		3,375.4728	3,375.4728	0.2104	0.1312	3,419.8433
Total	**1.4110**	**1.4642**	**14.7381**	**0.0328**	**3.3441**	**0.0232**	**3.3674**	**0.8907**	**0.0216**	**0.9123**		**3,375.4990**	**3,375.4990**	**0.2105**	**0.1312**	**3,419.8712**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0576	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.3534	1.4641	14.7258	0.0328	3.3441	0.0232	3.3673	0.8907	0.0215	0.9123		3,375.4728	3,375.4728	0.2104	0.1312	3,419.8433
Total	**1.4110**	**1.4642**	**14.7381**	**0.0328**	**3.3441**	**0.0232**	**3.3674**	**0.8907**	**0.0216**	**0.9123**		**3,375.4990**	**3,375.4990**	**0.2105**	**0.1312**	**3,419.8712**

	ROG	NOx	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	1.3534	1.4641	14.7258	0.0328	3.3441	0.0232	3.3673	0.8907	0.0215	0.9123		3,375.4728	3,375.4728	0.2104	0.1312	3,419.8433
Unmitigated	1.3534	1.4641	14.7258	0.0328	3.3441	0.0232	3.3673	0.8907	0.0215	0.9123		3,375.4728	3,375.4728	0.2104	0.1312	3,419.8433

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Golf Course	403.30	403.30	403.30	1,588,536	1,588,536
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	403.30	403.30	403.30	1,588,536	1,588,536

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
Golf Course	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Other Non-Asphalt Surfaces	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
Golf Course	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

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					
Golf Course	0	0.0000	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Golf Course	0	0.0000	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
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**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0576	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Unmitigated	0.0576	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0565					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Total	**0.0576**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0263**	**0.0263**	**7.0000e-005**		**0.0280**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0565					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Total	**0.0576**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0263**	**0.0263**	**7.0000e-005**		**0.0280**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Brookside Golf Course Improvements Operational Run

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	112.54	1000sqft	2.58	112,540.00	0
Golf Course	7.40	Acre	7.40	322,518.24	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2023
Utility Company	Pasadena Water and Power				
CO2 Intensity (lb/MWhr)	872.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase -

Vehicle Trips - based on net increase in trips from applicant

Area Coating - no parking area assumed for project

Water And Wastewater - Sewage generation rates based on a City of LA CEQA Thresholds for a golf course lobby. Considers only new generation from Mini Golf Course

Solid Waste - considers only new generation from Mini Golf Course operations. Assumes driving range operations is intended to meet demand currently at the golf course

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	6752	0
tblLandUse	LandUseSquareFeet	322,344.00	322,518.24

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblSolidWaste	SolidWasteGenerationRate	6.88	0.46
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	ST_TR	3.74	54.50
tblVehicleTrips	SU_TR	3.74	54.50
tblVehicleTrips	WD_TR	3.74	54.50
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	627,800.00
tblWater	OutdoorWaterUseRate	8,816,961.99	0.00
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	0.0576	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.3323	1.5822	14.2983	0.0314	3.3441	0.0232	3.3673	0.8907	0.0216	0.9123		3,230.6324	3,230.6324	0.2155	0.1371	3,276.8754
Total	**1.3900**	**1.5823**	**14.3105**	**0.0314**	**3.3441**	**0.0233**	**3.3674**	**0.8907**	**0.0216**	**0.9123**		**3,230.6587**	**3,230.6587**	**0.2156**	**0.1371**	**3,276.9034**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0576	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.3323	1.5822	14.2983	0.0314	3.3441	0.0232	3.3673	0.8907	0.0216	0.9123		3,230.6324	3,230.6324	0.2155	0.1371	3,276.8754
Total	**1.3900**	**1.5823**	**14.3105**	**0.0314**	**3.3441**	**0.0233**	**3.3674**	**0.8907**	**0.0216**	**0.9123**		**3,230.6587**	**3,230.6587**	**0.2156**	**0.1371**	**3,276.9034**

	ROG	NOx	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	Exhaust	PM10 Total	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3323	1.5822	14.2983	0.0314	3.3441	0.0232	3.3673	0.8907	0.0216	0.9123		3,230.6324	3,230.6324	0.2155	0.1371	3,276.8754
Unmitigated	1.3323	1.5822	14.2983	0.0314	3.3441	0.0232	3.3673	0.8907	0.0216	0.9123		3,230.6324	3,230.6324	0.2155	0.1371	3,276.8754

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Golf Course	403.30	403.30	403.30	1,588,536	1,588,536
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	403.30	403.30	403.30	1,588,536	1,588,536

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
Golf Course	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Other Non-Asphalt Surfaces	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
Golf Course	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

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					
Golf Course	0	0.0000	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Golf Course	0	0.0000	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
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**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0576	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Unmitigated	0.0576	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0565					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Total	**0.0576**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0263**	**0.0263**	**7.0000e-005**		**0.0280**

Brookside Golf Course Improvements Operational Run - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0565					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0263	0.0263	7.0000e-005		0.0280
Total	**0.0576**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0263**	**0.0263**	**7.0000e-005**		**0.0280**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

LST Worksheets

Construction Localized Significance Thresholds: Demolition

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
8	1.00	25	82	76	250	9.00

Source Receptor	**West San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**69**	Tractors	0.5	0.0625			0
CO	**535**	Graders	0.5	0.0625			0
PM10	**19.38**	Dozers	0.5	0.0625	8	2	1
PM2.5	**5.57**	Scrapers	1	0.125			0
						Acres	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	69	69	81	104	164
	1	69	69	81	104	164
		69	69	81	104	164
CO	1	535	783	1158	2229	7270
	1	535	783	1158	2229	7270
		535	783	1158	2229	7270
PM10	1	4	11	27	58	152
	1	4	11	27	58	152
		4	11	27	58	152
PM2.5	1	3	4	7	18	77
	1	3	4	7	18	77
		3	4	7	18	77

West San Gabriel Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	69	69	81	104	164
CO	535	783	1158	2229	7270
PM10	4	11	27	58	152
PM2.5	3	4	7	18	77

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
8	1	8	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation

		NOx & CO		PM10 & PM2.5		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
8	3.50	25	82	76	250	9.00

Source Receptor	**West San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**123**	Tractors	0.5	0.0625	8	4	2
CO	**1,176**	Graders	0.5	0.0625			0
PM10	**36.12**	Dozers	0.5	0.0625	8	3	1.5
PM2.5	**9.36**	Scrapers	1	0.125			0
						Acres	3.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	3	115	110	120	138	186
	4	131	126	135	152	197
		123	118	128	145	192
CO	3	1055	1390	1929	3230	8590
	4	1297	1656	2264	3674	9224
		1176	1523	2097	3452	8907
PM10	3	8	25	40	72	167
	4	10	31	47	79	173
		9	28	44	76	170
PM2.5	3	5	6	11	23	86
	4	6	8	12	25	89
		6	7	12	24	88

West San Gabriel Valley

3.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	123	118	128	145	192
CO	1176	1523	2097	3452	8907
PM10	9	28	44	76	170
PM2.5	6	7	12	24	88

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
8	3	8	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Grading

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
8	4.00	25	82	76	250	9.00

Source Receptor	**West San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**131**	Tractors	0.5	0.0625	8	2	1
CO	**1,297**	Graders	0.5	0.0625	8	1	0.5
PM10	**39.21**	Dozers	0.5	0.0625	8	1	0.5
PM2.5	**10.11**	Scrapers	1	0.125	8	2	2
						Acres	4.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	4	131	126	135	152	197
	4	131	126	135	152	197
		131	126	135	152	197
CO	4	1297	1656	2264	3674	9224
	4	1297	1656	2264	3674	9224
		1297	1656	2264	3674	9224
PM10	4	10	31	47	79	173
	4	10	31	47	79	173
		10	31	47	79	173
PM2.5	4	6	8	12	25	89
	4	6	8	12	25	89
		6	8	12	25	89

West San Gabriel Valley

4.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	131	126	135	152	197
CO	1297	1656	2264	3674	9224
PM10	10	31	47	79	173
PM2.5	6	8	12	25	89

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
8	4	8	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Trenching and Fencing

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
8	0.44	25	82	76	250	9.00

Source Receptor	**West San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	7	1	0.4375
NOx	**69**	Tractors	0.5	0.0625			0
CO	**535**	Graders	0.5	0.0625			0
PM10	**19.38**	Dozers	0.5	0.0625			0
PM2.5	**5.57**	Scrapers	1	0.125			0
						Acres	0.44

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	69	69	81	104	164
	1	69	69	81	104	164
		69	69	81	104	164
CO	1	535	783	1158	2229	7270
	1	535	783	1158	2229	7270
		535	783	1158	2229	7270
PM10	1	4	11	27	58	152
	1	4	11	27	58	152
		4	11	27	58	152
PM2.5	1	3	4	7	18	77
	1	3	4	7	18	77
		3	4	7	18	77

West San Gabriel Valley

0.44 Acres

	25	**50**	**100**	**200**	**500**
NOx	69	69	81	104	164
CO	535	783	1158	2229	7270
PM10	4	11	27	58	152
PM2.5	3	4	7	18	77

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
8	1	8	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Paving

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
8	0.00	25	82	76	250	9.00

Source Receptor	**West San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**69**	Tractors	0.5	0.0625			0
CO	**535**	Graders	0.5	0.0625			0
PM10	**19.38**	Dozers	0.5	0.0625			0
PM2.5	**5.57**	Scrapers	1	0.125			0
						Acres	0.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	69	69	81	104	164
	1	69	69	81	104	164
		69	69	81	104	164
CO	1	535	783	1158	2229	7270
	1	535	783	1158	2229	7270
		535	783	1158	2229	7270
PM10	1	4	11	27	58	152
	1	4	11	27	58	152
		4	11	27	58	152
PM2.5	1	3	4	7	18	77
	1	3	4	7	18	77
		3	4	7	18	77

West San Gabriel Valley

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	69	69	81	104	164
CO	535	783	1158	2229	7270
PM10	4	11	27	58	152
PM2.5	3	4	7	18	77

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
8	1	8	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: ≤1.00 Acre LST

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
8	1.00	25	82	76	250	1.00

Source Receptor	**West San Gabriel Valley**
Distance (meters)	25
NOx	**69**
CO	**535**
PM10	**19.38**
PM2.5	**5.57**

Equipment	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Tractors	0.5	0.0625			0
Tractors	0.5	0.0625	8	1	0.5
Graders	0.5	0.0625			0
Dozers	0.5	0.0625	8	1	0.5
Scrapers	1	0.125			0
				Acres	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	69	69	81	104	164
	1	69	69	81	104	164
		69	69	81	104	164
CO	1	535	783	1158	2229	7270
	1	535	783	1158	2229	7270
		535	783	1158	2229	7270
PM10	1	4	11	27	58	152
	1	4	11	27	58	152
		4	11	27	58	152
PM2.5	1	3	4	7	18	77
	1	3	4	7	18	77
		3	4	7	18	77

West San Gabriel Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	69	69	81	104	164
CO	535	783	1158	2229	7270
PM10	4	11	27	58	152
PM2.5	3	4	7	18	77

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
8	1	8	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Energy Calculations

Construction-Related Fuel/Energy Usage

CONSTRUCTION WORKER COMMUTE

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2022	62,081	2,190	455	10	962	316
2023	9,336	330	63	1	145	47
Total	**71,416**	**2,520**	**518**	**12**	**1,107**	**364**

CONSTRUCTION VENDOR TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2022	299	59	3,343	419
2023	68	13	774	92
Total	**367**	**73**	**4,117**	**511**

CONSTRUCTION OFF-ROAD EQUIPMENT

Year	Gasoline gallons	Diesel gallons
2022	1,132	31,560
2023	377	4,491
Total	**1,509**	**36,051**

CONSTRUCTION TOTAL

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2022	62,379	3,380	3,798	31,989	962	316
2023	9,404	720	837	4,584	145	47
Total	**71,783**	**4,101**	**4,635**	**36,574**	**1,107**	**364**

Operation-Related Vehicle Fuel/Energy Usage

PROPOSED PROJECT COMMUTE

Vehicle Type	Gas		Diesel		CNG		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	Gallons	VMT	kWh
Passenger Vehicles	1,492,867	56,570	66,804	4,816	1,105	320	27,764	9,056

Construction Worker Trips Fuel Usage Worksheet

Note: Per CalEEMod methodology, worker vehicles are "LD_Mix", which is 50% LDA, 25% LDT1, and 25% LDT2

Activity[1]	Daily trips[1,2]	Trip miles[2]	Trip days[1]	Annual VMT
2022				
Demolition	15	14.7	30	6,615
Site Preparation	18	14.7	21	5,557
Grading	20	14.7	59	17,346
Trenching	5	14.7	32	2,352
Fencing	8	14.7	32	3,763
Paving	20	14.7	23	6,762
2023				
Demolition	8	14.7	10	1,176
Site Preparation	5	14.7	15	1,103
Grading	8	14.7	37	4,351
Trenching	3	14.7	10	441
Paving	10	14.7	17	2,499

[1] *Based on information provided.*
[2] *Based on CalEEMod defaults.*

Year	LDA VMT	LDT1 VMT	LDT2 VMT	Gasoline[1]						Diesel[1]						Electricity[1]			
				LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA m/kWh	LDA kWh	LDT1 m/kWh	LDT1 kWh
2022	42,395	10,599	10,599	30.28	1,359	26.12	402	24.33	429	47.29	8	21.78	0	34.76	2	3.04	287	3.04	29
2023	4,785	2,392	2,392	31.12	149	26.80	88	25.20	93	48.57	1	22.08	0	35.74	1	3.07	38	3.07	9

Gasoline		Diesel		Electricity	
VMT	Gallons	VMT	Gallons	VMT	kWh
62,081	2,190	455	10	962	316
9,336	330	63	1	145	47
71,416	**2,520**	**518**	**12**	**1,107**	**364**

[1] *EMFAC2017 v1.0.3.*

Year	VMT from gasoline			VMT from diesel			VMT from electricity	
	LDA	LDT1	LDT2	LDA	LDT1	LDT2	LDA	LDT1
2022	97.06%	99.12%	98.39%	0.88%	0.04%	0.72%	2.06%	0.84%
2023	96.62%	98.85%	98.14%	0.92%	0.03%	0.76%	2.46%	1.12%

Appendix C: Evidence Used to Define the Average Number of KWH Required to Displace a Gallong of Gasoline

Table A 3: Evidence from U.S. Department of Energy and U.S. Environmental Protection Agency's fuel economy website[32]

Vehicle	Model year	Electric consumption	Gasoline fuel economy	Number of kWh that are equivalent to 1 gallon
Ford Fusion Energi & Ford C-Max Energi	2013	0.34 kWh per mile	43 mpg	14.6
Chevrolet Volt	2013	0.35 kWh per mile	37 mpg	12.9
Chevrolet Volt	2012	0.36 kWh per mile	37 mpg	13.3
Fisker Karma	2012	0.62 kWh per mile	20 mpg	12.4
Toyota Prius	2013	0.29 kWh per mile & 0.2 gal	50 mpg	13.1
Average for five models	-	-	-	13.3 +/- 0.8

Table A 5: Average power consumption per mile traveled over time for different PEV categories

Year range	2012- 2020	2020-2030	2030-2040	2040-2050	2050
Efficiency improvement per year	0.3%	0.8%	0.9%	0.9%	
Year	2012	2020	2030	2040	2050
Relative energy efficiency	1.000	0.976	0.901	0.823	0.752

https://www.fhwa.dot.gov/environment/climate_change/mitigation/publications_and_tools/ev_deployment/page08.cfm

0.34	14.6
0.35	12.9
0.36	13.3
0.34	13.3

Year	Estimated Electric Consumption
2013	0.34
2014	0.34
2015	0.34
2016	0.34
2017	0.34
2018	0.34
2019	0.34
2020	0.33
2021	0.33
2022	0.33
2023	0.33
2024	0.32
2025	0.32
2026	0.32
2027	0.32
2028	0.31
2029	0.31
2030	0.31
2031	0.31
2032	0.30
2033	0.30
2034	0.30
2035	0.29

Vendor Trips Fuel Usage Worksheet

Note: Based on CalEEMod methodology, vendor vehicles HHDT (T7).

Activity[1]	Daily trips[1,2]	Trip miles[2]	Trip days[1]	Annual VMT
2022				
Demolition	4	6.9	30	828
Site Preparation	4	6.9	21	580
Grading	4	6.9	59	1,628
Trenching	0	6.9	32	0
Fencing	3	6.9	32	662
Paving	0	6.9	23	0
2023				
Demolition	2	6.9	10	138
Site Preparation	2	6.9	15	207
Grading	2	6.9	37	511
Trenching	0	6.9	10	0
Paving	0	6.9	17	0

[1] *Based on information provided.*

[2] *Based on CalEEMod defaults.*

Year	HHDT (T7) VMT	MHDT (T6) VMT	Gasoline[1]				Diesel[1]			
			HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons	HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons
2022	1,849	1,849	4.10	0	5.04	59	6.59	272	10.52	148
2023	428	428	4.20	0	5.12	13	7.00	59	11.00	33

[1] *EMFAC2017 v1.0.3.*

Year	VMT from gasoline		VMT from diesel	
	HHDT (T7)	MHDT (T6)	HHDT (T7)	MHDT (T6)
2022	0.08%	16.07%	96.85%	83.93%
2023	0.08%	15.81%	96.71%	84.19%

VENDOR

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
298.79	59.31	3,343	419
67.98	13.30	774	92
366.77	**72.61**	**4,117**	**511**

Off-Road Construction Equipment Fuel Usage Worksheet

Year	Total Gasoline	Total Diesel Gallons	Total Natural Gas
2022	1,132	31,560	0
2023	377	4,491	0
Total	**1,509**	**36,051**	**0**

Equipment Type[1]	Number of Equipment[1]	Horsepower	OFFROAD2017 Horsepower Category	Fuel Type	Working days[1]	Hours Per Day	Total Hours of Operation	Gasoline Gal/Hr[2]	Total Gasoline gallons	Diesel Gal/Hr[2]	Total Diesel gallons	Natural Gas Gal/Hr[2]	Total Natural Gas gallons
2022													
Demolition													
Concrete/Industrial Saws	1	81	*100*	*Gasoline*	30	8	240	4.71	1,132	0.00	0	0.00	0
Excavators	3	158	*175*	*Diesel*	30	8	720	0.00	0	2.89	2,077	0.00	0
Rubber Tired Dozers	2	247	*300*	*Diesel*	30	8	480	0.00	0	4.54	2,178	0.00	0
Site Preparation													
Rubber Tired Dozers	3	247	*300*	*Diesel*	21	8	504	0.00	0	4.54	2,287	0.00	0
Tractors/Loaders/Backhoes	4	97	*100*	*Diesel*	21	8	672	0.00	0	1.59	1,069	0.00	0
Grading													
Excavators	2	158	*175*	*Diesel*	59	8	944	0.00	0	2.89	2,724	0.00	0
Graders	1	187	*300*	*Diesel*	59	8	472	0.00	0	4.58	2,161	0.00	0
Rubber Tired Dozers	1	247	*300*	*Diesel*	59	8	472	0.00	0	4.54	2,142	0.00	0
Scrapers	2	367	*600*	*Diesel*	59	8	944	0.00	0	10.55	9,964	0.00	0
Tractors/Loaders/Backhoes	2	97	*100*	*Diesel*	59	8	944	0.00	0	1.59	1,502	0.00	0
Trenching													
Trenchers	2	78	*100*	*Diesel*	32	8	512	0.00	0	2.18	1,115	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	32		0	0.00	0	0.00	0	0.00	0
Fencing													
Cranes	1	231	*300*	*Diesel*	32	7	224	0.00	0	3.28	736	0.00	0
Tractors/Loaders/Backhoes	1	97	*100*	*Diesel*	32	7	224	0.00	0	1.59	356	0.00	0
Welders	1	46	*50*	*Diesel*	32	8	256	0.00	0	1.19	305	0.00	0
Paving													
Cement and Mortar Mixers	2	9	*25*	*Diesel*	23	6	276	0.00	0	0.33	91	0.00	0
Pavers	2	130	*175*	*Diesel*	23	8	368	0.00	0	3.40	1,251	0.00	0
Paving Equipment	2	132	*175*	*Diesel*	23	8	368	0.00	0	2.66	980	0.00	0
Rollers	2	80	*100*	*Diesel*	23	8	368	0.00	0	1.69	623	0.00	0
							TOTAL		**1,132**		**31,560**		**0**
2023													
Demolition													
Concrete/Industrial Saws	1	81	*100*	*Gasoline*	10	8	80	4.71	377	0.00	0	0.00	0
Rubber Tired Dozers	1	247	*300*	*Diesel*	10	6	60	0.00	0	4.47	268	0.00	0
Tractors/Loaders/Backhoes	1	97	*100*	*Diesel*	10	6	60	0.00	0	1.59	96	0.00	0
Site Preparation													
Rubber Tired Dozers	1	247	*300*	*Diesel*	15	8	120	0.00	0	4.47	536	0.00	0
Tractors/Loaders/Backhoes	1	97	*100*	*Diesel*	15	8	120	0.00	0	1.59	191	0.00	0
Grading													
Rubber Tired Loaders	1	203	*300*	*Diesel*	37	6	222	0.00	0	3.89	864	0.00	0
Rubber Tired Dozers	1	247	*300*	*Diesel*	37	6	222	0.00	0	4.47	992	0.00	0
Tractors/Loaders/Backhoes	1	97	*100*	*Diesel*	37	7	259	0.00	0	1.59	412	0.00	0
Trenching													
Trenchers	1	78	*100*	*Diesel*	10	8	80	0.00	0	2.18	174	0.00	0
Paving													
Cement and Mortar Mixers	1	9	*25*	*Diesel*	17	6	102	0.00	0	0.33	34	0.00	0
Pavers	1	130	*175*	*Diesel*	17	7	119	0.00	0	3.40	404	0.00	0
Rollers	1	80	*100*	*Diesel*	17	7	119	0.00	0	1.69	202	0.00	0
Paving Equipment	1	132	*175*	*Diesel*	17	7	119	0.00	0	2.67	317	0.00	0
							TOTAL		**377**		**4,491**		**0**

[1] Based on information provided.
[2] OFFROAD2017 v.1.0.1

OFFROAD 2022

	Equipment Type	Horsepower	Gas				Diesel				Natural Gas			
		HP	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr
Air Compressors25	Air Compressors	25	425546.2	2891.18	1397595.95	0.304484426	20294	45.5	37040.2	0.54789121	0	0	0	0
Air Compressors50	Air Compressors	50	129761.15	119.78	57896.3	2.24126844	228632.35	274.81	223693.9	1.02207682	0	0	0	0
Air Compressors75	Air Compressors	75	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors100	Air Compressors	100	707183.85	388.45	187770.6	3.766211803	0	0	0	0	0	0	0	0
Air Compressors175	Air Compressors	175	86563.4	26.12	12629	6.85433526	0	0	0	0	0	0	0	0
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts25	Aerial Lifts	25	99207	302.95	113701.15	0.872524157	83201.75	453.6	181138.55	0.459326576	183598.65	413.89	155347.65	1.181856629
Aerial Lifts50	Aerial Lifts	50	207874.8	361.73	130706.5	1.590393745	282188.7887	1140.475579	345146.8993	0.817590392	0	0	0	0
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	347969.5943	1000.001711	301851.1379	1.152785432	0	0	0	0
Aerial Lifts100	Aerial Lifts	100	372745.3	361.73	130706.5	2.851773248	144416.4648	381.5937638	115340.597	1.252087024	0	0	0	0
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	30092.65612	47.90105074	14474.13824	2.079063749	0	0	0	0
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	1798.270451	1.61464216	490.6279125	3.665242855	0	0	0	0
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	1277.032639	0.538214053	163.5426375	7.808560865	0	0	0	0
Bore/Drill rigs25	Bore/Drill rigs	25	7099.25	43.41	5380.1	1.31953867	6832.8	12.68	10300.3	0.66335932	0	0	0	0
Bore/Drill rigs50	Bore/Drill rigs	50	1361.45	4.91	529.25	2.572413793	7223.272208	17.74363412	6315.673619	1.143705746	0	0	0	0
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	11259.9836	13.63458201	6175.496005	1.823332666	0	0	0	0
Bore/Drill rigs100	Bore/Drill rigs	100	15457.75	22.49	2401.7	6.436170213	33992.15644	40.53019582	15471.81083	2.197038007	0	0	0	0
Bore/Drill rigs175	Bore/Drill rigs	175	5383.75	5.57	594.95	9.049079755	52719.1283	42.77149698	13539.40801	3.89375431	0	0	0	0
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	75652.99323	43.51859736	14079.84926	5.373139432	0	0	0	0
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	127419.845	36.04759352	12172.40957	10.46792291	0	0	0	0
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	68967.7292	7.284228743	4109.103011	16.78413245	0	0	0	0
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	39472.5925	1.120650576	817.3827113	48.29144532	0	0	0	0
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	234194.95	6545.81	602731.8	0.388555822	17534.6	176.7	53041.8	0.330580787	0	0	0	0
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	209710.75	921.34	261821.8	0.80096749	558.45	1.26	755.55	0.739130435	0	0	0	0
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	30966.6	18.29	11165.35	2.773455378	8913.3	11.1	6449.55	1.382003396	0	0	0	0
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	30167.25	10.48	6398.45	4.714774672	0	0	0	0	0	0	0	0
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	0
Cranes25	Cranes	25	0	0	0	0	139.5500519	0.703722276	337.097097	0.413975834	0	0	0	0
Cranes50	Cranes	50	4485.85	5.57	2303.15	1.94770206	2260.93939	7.506370945	3279.327721	0.689452102	0	0	0	0
Cranes75	Cranes	75	0	0	0	0	912.0081716	2.34574092	874.6303057	1.042735617	0	0	0	0
Cranes100	Cranes	100	15351.9	11.14	4628.2	3.3170347	51092.59028	88.19985861	39145.3334	1.305202584	0	0	0	0
Cranes175	Cranes	175	1000.1	0.45	189.8	5.269230769	156451.227	156.9300676	71689.13731	2.182356112	0	0	0	0
Cranes300	Cranes	300	0	0	0	0	269770.6591	174.2885504	82158.17267	3.283552327	0	0	0	0
Cranes600	Cranes	600	0	0	0	0	470359.9588	173.5848281	86061.3176	5.465405039	0	0	0	0
Cranes750	Cranes	750	0	0	0	0	9439.022408	2.34574092	1001.912596	9.421003835	0	0	0	0
Cranes9999	Cranes	9999	0	0	0	0	25984.121	3.753185473	1860.465139	13.96646487	0	0	0	0
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	7322.68925	20.81908657	7104.759396	1.030673784	0	0	0	0
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	788.120844	2.498290388	507.0411405	1.554352854	0	0	0	0
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	322614.1304	355.1736168	166072.3834	1.942611552	0	0	0	0
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	352855.5615	235.0474873	106568.0614	3.311081734	0	0	0	0
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	370164.2176	182.1670075	81293.53505	4.553427494	0	0	0	0
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	1294398.697	318.7402153	151368.1903	8.551325705	0	0	0	0
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	13294.01599	2.290099522	967.4687428	13.74102893	0	0	0	0
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	74650.66314	6.24572597	3457.9635	21.58804254	0	0	0	0
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	3135.35	10.92	3149.95	0.995365006	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	11906.3	6.44	1554.9	7.657276995	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	750	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment9999	Crushing/Proc. Equipment	9999	0	0	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders25	Dumpers/Tenders	25	22385.45	436.26	65046.65	0.344144549	1744.7	7.62	5037	0.346376812	0	0	0	0
Dumpers/Tenders100	Dumpers/Tenders	100	1281.15	4.02	511	2.507142857	0	0	0	0	0	0	0	0
Excavators25	Excavators	25	0	0	0	0	12357.30299	12.36582151	16566.57362	0.745917851	0	0	0	0
Excavators50	Excavators	50	0	0	0	0	292797.4646	509.0014941	372468.2039	0.786100562	0	0	0	0
Excavators75	Excavators	75	0	0	0	0	68.99993976	0.20860717	66.0090264	1.045310672	0	0	0	0
Excavators100	Excavators	100	0	0	0	0	380018.9542	366.7314043	237525.2602	1.599909643	0	0	0	0
Excavators175	Excavators	175	0	0	0	0	802090.9179	469.9919533	278005.7126	2.885159842	0	0	0	0
Excavators300	Excavators	300	0	0	0	0	1024027.992	406.5753737	236932.3704	4.322026536	0	0	0	0
Excavators600	Excavators	600	0	0	0	0	1821199.805	424.098376	272666.6071	6.679218349	0	0	0	0
Excavators750	Excavators	750	0	0	0	0	14503.33389	2.294678867	1125.966245	12.88078924	0	0	0	0
Excavators9999	Excavators	9999	0	0	0	0	50563.86261	3.129107545	2123.965532	23.80634801	0	0	0	0
Forklifts25	Forklifts	25	4310.65	6.94	6252.45	0.689433742	86.20029709	0.483312357	149.0685375	0.578259494	4869.1	3.98	4967.65	0.980161646
Forklifts50	Forklifts	50	3486976.4	1208.73	2174509.4	1.603569246	198567.5427	556.9788403	395097.3182	0.502578817	6468471.6	2689.41	4845123.15	1.335047923
Forklifts75	Forklifts	75	0	0	0	0	17534.02907	48.39462601	23067.4757	0.760119109	0	0	0	0
Forklifts100	Forklifts	100	16104325.6	4265.67	7640873.5	2.107655048	2926261.836	4639.234727	2980270.518	0.981877926	40482310.6	9438.97	17004860.9	2.380631682
Forklifts175	Forklifts	175	1126594.4	155.89	279235.95	4.034560736	867307.5244	859.1842592	547900.9423	1.582964104	3038296.5	345.41	622284.85	4.882485087
Forklifts300	Forklifts	300	0	0	0	0	168204.4643	105.79333	74521.76038	2.257118772	0	0	0	0
Forklifts600	Forklifts	600	0	0	0	0	43590.34931	16.78925315	11226.07402	3.882955807	0	0	0	0
Forklifts750	Forklifts	750	0	0	0	0	677.4028394	0.241656178	52.17398811	12.98353574	0	0	0	0
Forklifts9999	Forklifts	9999	0	0	0	0	3149.397788	0.436941286	344.4026628	9.144522179	0	0	0	0
Generator Sets25	Generator Sets	25	6184899.45	75938.47	8725135.2	0.708860013	530735.55	2585.49	872813.55	0.608074371	0	0	0	0
Generator Sets50	Generator Sets	50	1008286.95	3941.99	452764.25	2.226957959	629690.7	1333.85	450289.55	1.398412866	0	0	0	0
Generator Sets75	Generator Sets	75	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets100	Generator Sets	100	454943.3	761.3	87446.7	5.202521079	0	0	0	0	40730.35	56.63	6515.25	6.251540616
Generator Sets175	Generator Sets	175	74288.45	71.93	8267.25	8.985871965	0	0	0	0	58878.15	46.98	5391.05	10.92146242
Generator Sets300	Generator Sets	300	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets600	Generator Sets	600	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets750	Generator Sets	750	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets9999	Generator Sets	9999	0	0	0	0	0	0	0	0	0	0	0	0
Graders25	Graders	25	0	0	0	0	56.29162018	0.419259876	95.7872322	0.587673523	0	0	0	0
Graders50	Graders	50	0	0	0	0	1880.479361	6.079268199	2142.520916	0.877694751	0	0	0	0
Graders75	Graders	75	0	0	0	0	811.1768655	1.677039503	533.7743515	1.519699969	0	0	0	0
Graders100	Graders	100	0	0	0	0	43083.52342	61.63120175	23068.91807	1.867600522	0	0	0	0
Graders175	Graders	175	0	0	0	0	489889.8789	329.5382624	155476.0881	3.150901756	0	0	0	0
Graders300	Graders	300	0	0	0	0	1033169.492	297.255252	225712.7945	4.577363434	0	0	0	0
Graders600	Graders	600	0	0	0	0	44405.5389	7.756307703	5944.076694	7.470552818	0	0	0	0
Graders750	Graders	750	0	0	0	0	0	0	0	0	0	0	0	0
Graders9999	Graders	9999	0	0	0	0	35066.52632	1.257779627	916.6838122	38.25367684	0	0	0	0
Pavers25	Pavers	25	19126	42.51	16844.75	1.135427952	3317.85	4.75	3912.8	0.847947761	0	0	0	0
Pavers50	Pavers	50	14464.95	15.85	6212.3	2.328437133	8031.548898	24.42914185	8668.167471	0.926556729	0	0	0	0
Pavers75	Pavers	75	0	0	0	0	12268.53505	23.61483712	7984.230128	1.536595872	0	0	0	0
Pavers100	Pavers	100	12997.65	8.68	3416.4	3.804487179	65216.53329	94.45934847	37551.43914	1.73672527	0	0	0	0
Pavers175	Pavers	175	0	0	0	0	106034.6808	80.81974427	31195.54266	3.399033058	0	0	0	0
Pavers300	Pavers	300	0	0	0	0	82805.88655	38.88305077	17492.61032	4.733763859	0	0	0	0
Pavers600	Pavers	600	0	0	0	0	15059.38712	4.275099823	1860.421199	8.094611657	0	0	0	0
Pavers750	Pavers	750	0	0	0	0	3106.322473	0.407152364	192.7861467	16.11278884	0	0	0	0
Pavers9999	Pavers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Paving Equipment25	Paving Equipment	25	405606.25	4653.79	880358.1	0.460728708	3927.4	8.24	6840.1	0.574172892	0	0	0	0
Paving Equipment50	Paving Equipment	50	16914.1	43.24	7570.1	2.234329797	9999.692597	30.08082237	14172.41813	0.705574201	0	0	0	0
Paving Equipment75	Paving Equipment	75	0	0	0	0	1547.978119	3.048731997	1221.491977	1.26728472	0	0	0	0
Paving Equipment100	Paving Equipment	100	6978.8	11.15	1945.45	3.587242026	41578.81811	55.08042475	25401.2751	1.63687917	0	0	0	0
Paving Equipment175	Paving Equipment	175	0	0	0	0	45072.23222	36.78803277	16932.09379	2.661940855	0	0	0	0
Paving Equipment300	Paving Equipment	300	0	0	0	0	30249.93797	15.24365999	7133.921782	4.240295716	0	0	0	0
Paving Equipment600	Paving Equipment	600	0	0	0	0	32397.66168	9.552693591	4444.828439	7.288844132	0	0	0	0
Paving Equipment750	Paving Equipment	750	0	0	0	0	6466.590168	1.016243999	549.7990881	11.76173316	0	0	0	0
Paving Equipment9999	Paving Equipment	9999	0	0	0	0	2934.636621	0.4064976	189.4577939	15.489659	0	0	0	0
Rollers25	Rollers	25	94553.25	503.55	125395.75	0.754038713	72390.45	272.14	189314.55	0.382381861	0	0	0	0
Rollers50	Rollers	50	18790.2	11.14	6927.7	2.712328767	164688.3147	617.3209126	213769.2814	0.770402153	0	0	0	0
Rollers75	Rollers	75	0	0	0	0	1827.242138	5.86329225	1349.139761	1.354375722	0	0	0	0
Rollers100	Rollers	100	58973.05	20.97	13030.5	4.525770308	255880.2178	455.2427626	151062.27	1.693872452	0	0	0	0
Rollers175	Rollers	175	0	0	0	0	266342.9136	266.3609908	95537.27497	2.787842899	0	0	0	0
Rollers300	Rollers	300	0	0	0	0	44111.51497	34.13273703	10510.37284	4.19695054	0	0	0	0
Rollers600	Rollers	600	0	0	0	0	25854.2926	12.35479438	3794.335973	6.813917582	0	0	0	0
Rollers750	Rollers	750	0	0	0	0	0	0	0	0	0	0	0	0
Rollers9999	Rollers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Rough Terrain Forklifts25	Rough Terrain Forklifts	25	0	0	0	0	86.20029709	0.483312357	149.0685375	0.578259494	0	0	0	0
Rough Terrain Forklifts50	Rough Terrain Forklifts	50	3044.1	2.23	927.1	3.283464567	8302.767049	27.54880435	7522.99219	1.103652222	0	0	0	0
Rough Terrain Forklifts75	Rough Terrain Forklifts	75	0	0	0	0	228.8860252	0.724968535	165.9077611	1.379598059	0	0	0	0
Rough Terrain Forklifts100	Rough Terrain Forklifts	100	66758.5	31.68	13096.2	5.09754738	655944.8031	1158.983032	327439.5325	2.003254763	0	0	0	0
Rough Terrain Forklifts175	Rough Terrain Forklifts	175	3763.15	1.13	459.9	8.182539683	144272.8707	202.0245652	55355.22112	2.606310079	0	0	0	0
Rough Terrain Forklifts300	Rough Terrain Forklifts	300	0	0	0	0	10588.81417	9.666247139	2421.811628	4.372269935	0	0	0	0
Rough Terrain Forklifts600	Rough Terrain Forklifts	600	0	0	0	0	3936.757727	1.933249428	494.6867021	7.958082784	0	0	0	0
Rough Terrain Forklifts750	Rough Terrain Forklifts	750	0	0	0	0	677.4028394	0.241656178	52.17398811	12.98353574	0	0	0	0
Rough Terrain Forklifts9999	Rough Terrain Forklifts	9999	0	0	0	0	0	0	0	0	0	0	0	0
Rubber Tired Dozers25	Rubber Tired Dozers	25	0	0	0	0	0	0	0	0	0	0	0	0
Rubber Tired Dozers50	Rubber Tired Dozers	50	0	0	0	0	7315.859953	8.16832542	7759.963377	0.942769907	0	0	0	0
Rubber Tired Dozers75	Rubber Tired Dozers	75	0	0	0	0	7354.833538	6.972960725	5225.805176	1.407406762	0	0	0	0
Rubber Tired Dozers100	Rubber Tired Dozers	100	0	0	0	0	23334.42838	15.53974104	13407.9386	1.740344215	0	0	0	0
Rubber Tired Dozers175	Rubber Tired Dozers	175	0	0	0	0	32858.02555	14.34437635	11272.28161	2.914940088	0	0	0	0
Rubber Tired Dozers300	Rubber Tired Dozers	300	0	0	0	0	35526.72911	11.15673716	7828.466442	4.538146696	0	0	0	0
Rubber Tired Dozers600	Rubber Tired Dozers	600	0	0	0	0	369656.1513	66.94042296	48639.45136	7.599924362	0	0	0	0
Rubber Tired Dozers750	Rubber Tired Dozers	750	0	0	0	0	10568.69103	0.796909797	794.7265775	13.29852471	0	0	0	0
Rubber Tired Dozers9999	Rubber Tired Dozers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Rubber Tired Loaders25	Rubber Tired Loaders	25	0	0	0	0	3277.7	4.44	4252.25	0.770815451	0	0	0	0
Rubber Tired Loaders50	Rubber Tired Loaders	50	7044.5	5.55	2857.95	2.464878672	22915.8451	30.73299419	26410.76017	0.867670788	0	0	0	0
Rubber Tired Loaders75	Rubber Tired Loaders	75	0	0	0	0	0	0	0	0	0	0	0	0
Rubber Tired Loaders100	Rubber Tired Loaders	100	70820.95	37.03	18976.35	3.732063858	557717.9142	381.8782184	349997.2498	1.593492276	0	0	0	0
Rubber Tired Loaders175	Rubber Tired Loaders	175	0	0	0	0	1322496.478	500.8647432	472179.4544	2.800834441	0	0	0	0
Rubber Tired Loaders300	Rubber Tired Loaders	300	0	0	0	0	1917153.874	461.8255344	492351.0526	3.893875851	0	0	0	0
Rubber Tired Loaders600	Rubber Tired Loaders	600	0	0	0	0	2470512.139	413.2341787	402293.1073	6.141074987	0	0	0	0
Rubber Tired Loaders750	Rubber Tired Loaders	750	0	0	0	0	240293.1238	19.93491515	20033.30335	11.99468303	0	0	0	0
Rubber Tired Loaders9999	Rubber Tired Loaders	9999	0	0	0	0	171495.7771	8.098559281	9549.461749	17.95868517	0	0	0	0
Scrapers25	Scrapers	25	0	0	0	0	58.56335263	0.205317872	84.43520914	0.693589241	0	0	0	0
Scrapers50	Scrapers	50	0	0	0	0	466.1193715	1.231907234	441.1739677	1.056543236	0	0	0	0
Scrapers75	Scrapers	75	0	0	0	0	4113.375203	5.543582555	2429.388601	1.693173008	0	0	0	0
Scrapers100	Scrapers	100	0	0	0	0	18538.72607	13.55097958	8195.609758	2.262031333	0	0	0	0
Scrapers175	Scrapers	175	0	0	0	0	250103.4026	133.6619349	59699.21099	4.189392095	0	0	0	0
Scrapers300	Scrapers	300	0	0	0	0	294776.7383	130.5821669	53032.34761	5.55843276	0	0	0	0
Scrapers600	Scrapers	600	0	0	0	0	3652877.582	720.6657322	346083.9734	10.55488801	0	0	0	0
Scrapers750	Scrapers	750	0	0	0	0	56125.42179	9.855257876	3598.816247	15.59552306	0	0	0	0
Scrapers9999	Scrapers	9999	0	0	0	0	84412.75304	5.338264683	2118.854665	39.83885938	0	0	0	0
Skid Steer Loaders25	Skid Steer Loaders	25	309676.95	879.3	280736.1	1.103089165	319104.9	609.03	508357.4	0.627717625	0	0	0	0
Skid Steer Loaders50	Skid Steer Loaders	50	90268.15	152.11	47194.5	1.912683681	124648.2657	427.5717884	134624.1737	0.925898093	0	0	0	0
Skid Steer Loaders75	Skid Steer Loaders	75	0	0	0	0	652894.6906	1359.2416	485436.1672	1.344965074	0	0	0	0
Skid Steer Loaders100	Skid Steer Loaders	100	120552.2	90.99	28236.4	4.269389866	9512.441212	20.5624509	6662.956663	1.427660676	0	0	0	0
Skid Steer Loaders175	Skid Steer Loaders	175	0	0	0	0	4472.84324	5.723568808	1545.447553	2.89420578	0	0	0	0
Skid Steer Loaders300	Skid Steer Loaders	300	0	0	0	0	4156.636498	3.603728509	1063.554631	3.908249166	0	0	0	0
Skid Steer Loaders600	Skid Steer Loaders	600	0	0	0	0	1201.696559	0.42396806	133.1864861	9.022661336	0	0	0	0
Skid Steer Loaders750	Skid Steer Loaders	750	0	0	0	0	0	0	0	0	0	0	0	0
Skid Steer Loaders9999	Skid Steer Loaders	9999	0	0	0	0	1626.662009	0.42396806	85.48150834	19.02940227	0	0	0	0
Surfacing Equipment25	Surfacing Equipment	25	198052.65	1255.97	537371.25	0.368558329	0	0	0	0	0	0	0	0
Surfacing Equipment50	Surfacing Equipment	50	0	0	0	0	1155.306637	7.50022009	1829.111308	0.631621833	0	0	0	0
Surfacing Equipment75	Surfacing Equipment	75	0	0	0	0	696.6271679	2.692386699	669.6050043	1.040355379	0	0	0	0
Surfacing Equipment100	Surfacing Equipment	100	0	0	0	0	7147.395687	18.46208022	5124.631212	1.394714154	0	0	0	0
Surfacing Equipment175	Surfacing Equipment	175	0	0	0	0	5867.117516	10.96186013	2723.89516	2.153943955	0	0	0	0
Surfacing Equipment300	Surfacing Equipment	300	0	0	0	0	11897.01945	13.65424683	3360.766849	3.539971674	0	0	0	0
Surfacing Equipment600	Surfacing Equipment	600	0	0	0	0	41719.66887	22.6929736	6493.498923	6.424836497	0	0	0	0
Surfacing Equipment750	Surfacing Equipment	750	0	0	0	0	16154.28643	5.577086733	1621.507394	9.962511727	0	0	0	0
Surfacing Equipment9999	Surfacing Equipment	9999	0	0	0	0	6893.753691	1.923133356	511.2109072	13.48514594	0	0	0	0
Sweepers/Scrubbers25	Sweepers/Scrubbers	25	97265.2	397.68	107463.3	0.905101556	21367.1	45.73	29743.85	0.718370352	0	0	0	0
Sweepers/Scrubbers50	Sweepers/Scrubbers	50	455698.85	336.42	173750.95	2.622712854	76008.13404	115.1754155	81424.77905	0.9334767	0	0	0	0
Sweepers/Scrubbers75	Sweepers/Scrubbers	75	0	0	0	0	22533.85346	22.01583164	13100.09715	1.720128729	0	0	0	0
Sweepers/Scrubbers100	Sweepers/Scrubbers	100	649605.1	280.9	145069.25	4.477896591	94939.23834	71.75530314	50904.45886	1.865047591	0	0	0	0
Sweepers/Scrubbers175	Sweepers/Scrubbers	175	7610.25	1.61	839.5	9.065217391	29302.48154	10.80406553	7777.716952	3.767491376	0	0	0	0
Sweepers/Scrubbers300	Sweepers/Scrubbers	300	0	0	0	0	17597.47359	4.892407032	3560.051999	4.943038359	0	0	0	0
Sweepers/Scrubbers600	Sweepers/Scrubbers	600	0	0	0	0	2376.518375	0.407700586	305.5198994	7.778604207	0	0	0	0
Sweepers/Scrubbers750	Sweepers/Scrubbers	750	0	0	0	0	0	0	0	0	0	0	0	0
Sweepers/Scrubbers9999	Sweepers/Scrubbers	9999	0	0	0	0	3053.466033	0.203850293	152.7599497	19.98865566	0	0	0	0
Tractors/Loaders/Backhoes25	Tractors/Loaders/Backhoes	25	0	0	0	0	60871.05	89.44	84333.25	0.72179182	0	0	0	0
Tractors/Loaders/Backhoes50	Tractors/Loaders/Backhoes	50	0	0	0	0	246171.6444	598.3998931	309366.2746	0.795728768	0	0	0	0
Tractors/Loaders/Backhoes75	Tractors/Loaders/Backhoes	75	0	0	0	0	36252.16783	115.7184462	26526.97668	1.366615136	0	0	0	0
Tractors/Loaders/Backhoes100	Tractors/Loaders/Backhoes	100	50026.9	19.6	17092.95	2.926756353	3931683.53	3947.354277	2471598.783	1.59074505	0	0	0	0
Tractors/Loaders/Backhoes175	Tractors/Loaders/Backhoes	175	0	0	0	0	686041.4525	454.5337167	252326.3914	2.718865232	0	0	0	0
Tractors/Loaders/Backhoes300	Tractors/Loaders/Backhoes	300	0	0	0	0	432492.0443	193.0725788	108790.7579	3.9754484	0	0	0	0
Tractors/Loaders/Backhoes600	Tractors/Loaders/Backhoes	600	0	0	0	0	564553.9997	162.4228281	88040.81909	6.412411941	0	0	0	0
Tractors/Loaders/Backhoes750	Tractors/Loaders/Backhoes	750	0	0	0	0	10684.07897	1.876515344	890.5522455	11.99713888	0	0	0	0
Tractors/Loaders/Backhoes9999	Tractors/Loaders/Backhoes	9999	0	0	0	0	192783.9487	8.757071606	5465.499433	35.27288789	0	0	0	0
Trenchers25	Trenchers	25	190650.45	451.47	196107.2	0.972174658	28904.35	48.84	30214.7	0.956632037	0	0	0	0
Trenchers50	Trenchers	50	89899.5	101.5	40825.25	2.202056325	87281.88315	196.2209796	75591.19967	1.154656673	0	0	0	0
Trenchers75	Trenchers	75	0	0	0	0	5210.681916	10.47998414	2838.815499	1.835512705	0	0	0	0
Trenchers100	Trenchers	100	56147.95	33.68	13548.8	4.144127155	57538.27014	80.04924055	26419.19637	2.177896305	0	0	0	0
Trenchers175	Trenchers	175	0	0	0	0	13450.09483	12.48678961	3685.747893	3.649217262	0	0	0	0
Trenchers300	Trenchers	300	0	0	0	0	29044.29595	16.05444379	4950.670079	5.866740357	0	0	0	0
Trenchers600	Trenchers	600	0	0	0	0	44069.78149	12.04083284	4437.671029	9.930835613	0	0	0	0
Trenchers750	Trenchers	750	0	0	0	0	14156.1557	1.783827087	841.0739144	16.83104833	0	0	0	0
Trenchers9999	Trenchers	9999	0	0	0	0	1138.987576	0.222978386	50.9433019	22.35794566	0	0	0	0
Welders25	Welders	25	1544924.55	9279.76	1927805.9	0.801390093	239582.35	953.34	612229.1	0.391327936	0	0	0	0
Welders50	Welders	50	314166.45	625.96	130038.55	2.415948578	1049451.65	1373.5	882073.6	1.189755197	0	0	0	0
Welders75	Welders	75	0	0	0	0	0	0	0	0	0	0	0	0
Welders100	Welders	100	441522.25	638.91	132721.3	3.326687201	0	0	0	0	0	0	0	0
Welders175	Welders	175	55067.55	44.05	9150.55	6.017949741	0	0	0	0	0	0	0	0
Welders300	Welders	300	0	0	0	0	0	0	0	0	0	0	0	0
Welders600	Welders	600	0	0	0	0	0	0	0	0	0	0	0	0
Welders750	Welders	750	0	0	0	0	0	0	0	0	0	0	0	0
Welders9999	Welders	9999	0	0	0	0	0	0	0	0	0	0	0	0

Model Output: OFFROAD2017 (v1.0.1) Emissions Inventory
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2022
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2017 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bi	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consump	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy
Los Angeles (SC)	2022	Agricultural - Agricultural Tractors	Aggregate	50	Diesel	0.00415234	0.005024331	0.00597937	0.013260138	0.012004766	0.169079291	0.001115266	0.001026044	1.44914E-06	1.38926E-06	39173.77432	35097.62866	109.3946977	1432061
Los Angeles (SC)	2022	Agricultural - Agricultural Tractors	Aggregate	75	Diesel	0.004017591	0.004861286	0.005785332	0.016359606	0.030047605	0.317243969	0.002336336	0.00214943	2.83222E-06	2.60667E-06	73501.8676	41590.28735	117.9832372	2623340
Los Angeles (SC)	2022	Agricultural - Agricultural Tractors	Aggregate	100	Diesel	0.004578695	0.005540221	0.006593321	0.031677858	0.037440062	0.706976603	0.003034553	0.002791789	6.44283E-06	5.80895E-06	163798.5452	68455.86576	123.5844156	5865294
Los Angeles (SC)	2022	Agricultural - Agricultural Tractors	Aggregate	175	Diesel	0.002868233	0.003470562	0.004130255	0.018736989	0.026306176	0.406861299	0.001527502	0.001405302	3.70082E-06	3.34302E-06	94265.1973	30186.20791	46.35430285	3658247
Los Angeles (SC)	2022	Agricultural - Agricultural Tractors	Aggregate	300	Diesel	0.002278164	0.002756578	0.003280556	0.008547679	0.023681061	0.417341406	0.001009034	0.000928311	3.81606E-06	3.42913E-06	96693.32032	17522.08851	21.15976872	3796920
Los Angeles (SC)	2022	Agricultural - Agricultural Tractors	Aggregate	600	Diesel	0.00122769	0.001485505	0.001767874	0.005511126	0.010786115	0.345975009	0.000490549	0.000451305	3.18333E-06	2.84274E-06	80158.52703	8693.503559	7.774536087	3195744
Los Angeles (SC)	2022	Agricultural - Bale Wagons (Self Propelled)	Aggregate	50	Diesel	1.6802E-06	2.03305E-06	2.41949E-06	1.15519E-05	1.19582E-05	0.000205348	6.21334E-07	5.71627E-07	1.86087E-09	1.68727E-09	47.57686859	46.64398981	0.072960484	1632.54
Los Angeles (SC)	2022	Agricultural - Bale Wagons (Self Propelled)	Aggregate	100	Diesel	1.20396E-05	1.4568E-05	1.73371E-05	0.000122526	0.000107782	0.002850321	9.00587E-06	8.2854E-06	2.61682E-08	2.342E-08	660.3873438	270.330082	0.435358426	22654.76
Los Angeles (SC)	2022	Agricultural - Bale Wagons (Self Propelled)	Aggregate	175	Diesel	3.09794E-05	3.74851E-05	4.46104E-05	0.000335795	0.000293051	0.008075809	1.80863E-05	1.66394E-05	7.42363E-08	6.63558E-08	1871.074328	559.021453	0.896678691	71934.18
Los Angeles (SC)	2022	Agricultural - Bale Wagons (Self Propelled)	Aggregate	300	Diesel	8.05893E-06	9.7513E-06	1.16049E-05	3.61382E-05	8.69724E-05	0.002455558	3.52247E-06	3.24067E-06	2.26134E-08	2.01764E-08	568.9251926	112.1818207	0.181095311	21702.87
Los Angeles (SC)	2022	Agricultural - Balers (Self Propelled)	Aggregate	50	Diesel	2.88581E-05	3.49183E-05	4.15557E-05	0.00013533	0.000149816	0.002499162	9.43918E-06	8.68405E-06	2.23952E-08	2.05346E-08	579.0278523	429.7745036	1.324629313	19800.67
Los Angeles (SC)	2022	Agricultural - Balers (Self Propelled)	Aggregate	75	Diesel	1.34218E-05	1.62404E-05	1.93274E-05	9.72912E-05	0.000132097	0.002290366	8.18867E-06	7.53358E-06	2.0915E-08	1.8819E-08	530.6521843	281.2568501	0.859782051	18254.75
Los Angeles (SC)	2022	Agricultural - Balers (Self Propelled)	Aggregate	100	Diesel	2.88417E-06	3.48984E-06	4.1532E-06	2.13456E-05	2.61093E-05	0.000502503	1.93916E-06	1.78403E-06	4.59053E-09	4.12887E-09	116.4243008	50.49813284	0.155388989	4001.508
Los Angeles (SC)	2022	Agricultural - Balers (Self Propelled)	Aggregate	175	Diesel	1.16328E-06	1.40757E-06	1.67513E-06	1.01381E-05	1.27997E-05	0.000249889	6.67303E-07	6.13919E-07	2.29094E-09	2.05324E-09	57.89639812	21.10288997	0.065061031	2221.322
Los Angeles (SC)	2022	Agricultural - Combine Harvesters	Aggregate	75	Diesel	2.61323E-06	3.16201E-06	3.76305E-06	1.64649E-05	2.29808E-05	0.000374963	1.67752E-06	1.54331E-06	3.41157E-09	3.08092E-09	86.8747009	60.3508206	0.165712142	3359.017
Los Angeles (SC)	2022	Agricultural - Combine Harvesters	Aggregate	100	Diesel	2.06237E-05	2.49547E-05	2.96981E-05	0.000130497	0.000176892	0.002968177	1.42347E-05	1.30959E-05	2.70076E-08	2.43884E-08	687.693222	305.8377297	0.848422998	25973.14
Los Angeles (SC)	2022	Agricultural - Combine Harvesters	Aggregate	175	Diesel	3.03575E-05	3.67326E-05	4.37148E-05	0.000227084	0.000318998	0.005503528	1.73122E-05	1.59272E-05	5.03134E-08	4.52203E-08	1275.105596	400.7773243	1.125691145	55984.7
Los Angeles (SC)	2022	Agricultural - Combine Harvesters	Aggregate	300	Diesel	0.000151884	0.000183779	0.000218712	0.000659237	0.001977835	0.039877641	7.29937E-05	6.71542E-05	3.66605E-07	3.27659E-07	9239.20181	1699.792102	4.54606255	393195
Los Angeles (SC)	2022	Agricultural - Combine Harvesters	Aggregate	600	Diesel	3.26886E-05	3.95533E-05	4.70716E-05	0.000237859	0.00040444	0.015221702	1.69324E-05	1.55778E-05	1.40695E-07	1.25071E-07	3526.697551	442.0093845	0.97866324	146243.6
Los Angeles (SC)	2022	Agricultural - Construction Equipment	Aggregate	50	Diesel	0.000293256	0.000354839	0.000422288	0.001048416	0.000974939	0.014428996	8.23729E-05	7.5783E-05	1.255E-07	1.18557E-07	3343.03638	3232.606056	8.369733738	143164
Los Angeles (SC)	2022	Agricultural - Construction Equipment	Aggregate	75	Diesel	0.000202849	0.000245447	0.000292102	0.001077321	0.001686739	0.023132044	0.000120754	0.000111093	2.09216E-07	1.90067E-07	5359.434962	3627.096735	10.00863438	228473.5
Los Angeles (SC)	2022	Agricultural - Construction Equipment	Aggregate	100	Diesel	0.000392983	0.000475509	0.000565895	0.002488141	0.003178839	0.05468155	0.00026081	0.000239946	4.9716E-07	4.49297E-07	12669.10148	6432.067538	13.25172434	542427.3
Los Angeles (SC)	2022	Agricultural - Construction Equipment	Aggregate	175	Diesel	0.000778175	0.000941591	0.001120572	0.005544894	0.007070145	0.123389699	0.000420877	0.000387207	1.12511E-06	1.01385E-06	28588.00848	11140.00153	17.98666807	1364602
Los Angeles (SC)	2022	Agricultural - Construction Equipment	Aggregate	300	Diesel	0.00042121	0.000509664	0.000606543	0.001648434	0.004600858	0.081465581	0.000195022	0.00017942	7.45605E-07	6.69371E-07	18874.66083	4558.502318	8.173767992	897144.6
Los Angeles (SC)	2022	Agricultural - Construction Equipment	Aggregate	600	Diesel	5.94983E-05	7.19929E-05	8.56775E-05	0.000268493	0.000581514	0.009837446	2.50612E-05	2.30563E-05	8.97772E-08	8.08305E-08	2279.225958	311.1949317	0.352486404	109915.9
Los Angeles (SC)	2022	Agricultural - Cotton Pickers	Aggregate	100	Diesel	5.28189E-06	6.39109E-06	7.60593E-06	6.8248E-05	5.67746E-05	0.001684483	4.25665E-06	3.91611E-06	1.55199E-08	1.38407E-08	390.2758486	167.6671611	0.371600924	15090.04
Los Angeles (SC)	2022	Agricultural - Cotton Pickers	Aggregate	175	Diesel	1.17737E-05	1.42461E-05	1.69541E-05	0.000161243	0.000132592	0.004100096	7.50032E-06	6.9003E-06	3.78085E-08	3.36889E-08	949.9463081	330.2353119	0.72279698	40083.57
Los Angeles (SC)	2022	Agricultural - Cotton Pickers	Aggregate	300	Diesel	1.05955E-05	1.28206E-05	1.52575E-05	5.85388E-05	0.000136318	0.004304969	5.22089E-06	4.80322E-06	3.97507E-08	3.53723E-08	997.4130245	173.4728482	0.375770372	42868.68
Los Angeles (SC)	2022	Agricultural - Cotton Pickers	Aggregate	600	Diesel	3.08257E-05	3.72991E-05	4.4389E-05	0.000171591	0.000386103	0.012894029	1.53973E-05	1.41656E-05	1.19087E-07	1.05945E-07	2987.401808	393.7766539	0.861878526	127956.5
Los Angeles (SC)	2022	Agricultural - Forage & Silage Harvesters	Aggregate	100	Diesel	1.06003E-06	1.28263E-06	1.52644E-06	6.71717E-06	9.10932E-06	0.000152973	7.32729E-07	6.7411E-07	1.392E-09	1.25692E-09	35.44215471	17.12966907	0.046837522	1370.374
Los Angeles (SC)	2022	Agricultural - Forage & Silage Harvesters	Aggregate	300	Diesel	1.03721E-06	1.25503E-06	1.49359E-06	4.19203E-06	1.3603E-05	0.000244003	4.9308E-07	4.53633E-07	2.23994E-09	2.00487E-09	56.53265418	11.04560765	0.031121947	2430.034
Los Angeles (SC)	2022	Agricultural - Forage & Silage Harvesters	Aggregate	600	Diesel	1.12531E-05	1.36162E-05	1.62044E-05	6.18766E-05	0.000143298	0.003664958	5.56353E-06	5.11845E-06	3.3774E-08	3.01135E-08	849.1295886	90.01318084	0.222970244	37665.92
Los Angeles (SC)	2022	Agricultural - Forage & Silage Harvesters	Aggregate	750	Diesel	2.09027E-05	2.52923E-05	3.00999E-05	0.000148313	0.000259947	0.009444581	1.07687E-05	9.90722E-06	8.72784E-08	7.76024E-08	2188.203508	154.6091812	0.338952434	93499.56
Los Angeles (SC)	2022	Agricultural - Forage & Silage Harvesters	Aggregate	9999	Diesel	1.28142E-05	1.55051E-05	1.84524E-05	8.92975E-05	0.000285143	0.005630295	6.71609E-06	6.1788E-06	5.20196E-08	4.62619E-08	1304.476271	65.20045812	0.141727356	56072.39
Los Angeles (SC)	2022	Agricultural - Forklifts	Aggregate	50	Diesel	2.4623E-05	2.97938E-05	3.54571E-05	0.000100448	9.39102E-05	0.00146915	7.07339E-06	6.50752E-06	1.29354E-08	1.20714E-08	340.385641	440.7762972	0.731080016	14599.87
Los Angeles (SC)	2022	Agricultural - Forklifts	Aggregate	75	Diesel	2.01214E-06	2.43469E-06	2.89749E-06	1.13664E-05	1.65202E-05	0.000236946	1.16486E-06	1.07167E-06	2.14502E-09	1.9469E-09	54.8978234	36.22594005	0.043057306	2354.686
Los Angeles (SC)	2022	Agricultural - Forklifts	Aggregate	100	Diesel	7.84187E-07	9.48867E-07	1.12923E-06	4.51741E-06	5.94193E-06	9.4171E-05	4.92038E-07	4.52675E-07	8.52972E-10	7.73767E-10	21.81836604	12.07531346	0.014352436	935.8368
Los Angeles (SC)	2022	Agricultural - Hay Squeeze/Stack retriever	Aggregate	75	Diesel	1.4824E-06	1.7937E-06	2.13465E-06	6.57347E-06	1.07507E-05	0.000127579	8.96014E-07	8.24333E-07	1.14297E-09	1.04827E-09	29.55867732	19.22045305	0.032549457	1207.462
Los Angeles (SC)	2022	Agricultural - Hay Squeeze/Stack retriever	Aggregate	100	Diesel	1.64151E-06	1.98623E-06	2.36377E-06	7.31536E-06	1.16574E-05	0.000141978	1.03604E-06	9.53154E-07	1.27222E-09	1.16658E-09	32.89471062	17.33855731	0.029342136	1343.738
Los Angeles (SC)	2022	Agricultural - Hay Squeeze/Stack retriever	Aggregate	175	Diesel	3.53903E-05	4.28223E-05	5.09621E-05	0.000187305	0.000315572	0.003895103	1.86248E-05	1.71348E-05	3.5192E-08	3.20045E-08	902.4516837	313.9389822	0.530195372	37841.22
Los Angeles (SC)	2022	Agricultural - Hay Squeeze/Stack retriever	Aggregate	300	Diesel	8.31391E-05	0.000100598	0.00011972	0.000286518	0.000867933	0.011080121	3.74671E-05	3.44698E-05	1.00634E-07	9.1041E-08	2567.139751	490.6870373	0.825749067	116516.6
Los Angeles (SC)	2022	Agricultural - Hay Squeeze/Stack retriever	Aggregate	600	Diesel	2.29142E-05	2.77262E-05	3.29965E-05	0.000118613	0.000237935	0.003317167	1.01422E-05	9.33085E-06	3.01871E-08	2.72559E-08	768.5503974	107.6378322	0.182661106	34232.83
Los Angeles (SC)	2022	Agricultural - Nut Harvester	Aggregate	50	Diesel	5.73016E-05	6.9335E-05	8.25143E-05	0.000644699	0.000793768	0.015712518	2.65874E-05	2.44604E-05	1.44525E-07	1.29104E-07	3640.414194	3522.459702	8.974924833	141095.7
Los Angeles (SC)	2022	Agricultural - Nut Harvester	Aggregate	75	Diesel	3.40186E-05	4.11625E-05	4.89867E-05	0.000553508	0.000542971	0.014226086	2.11023E-05	1.94141E-05	1.31389E-07	1.1689E-07	3296.024481	1967.352646	4.992759107	128413.6
Los Angeles (SC)	2022	Agricultural - Nut Harvester	Aggregate	100	Diesel	7.51636E-05	9.0948E-05	0.000108236	0.001919579	0.000983338	0.049653741	6.73882E-05	6.19972E-05	4.59898E-07	4.07985E-07	11504.21161	5440.990586	9.718681527	447648.8
Los Angeles (SC)	2022	Agricultural - Nut Harvester	Aggregate	175	Diesel	8.26275E-05	9.99793E-05	0.000118984	0.001519011	0.000965423	0.039382539	5.42035E-05	4.98672E-05	3.64075E-07	3.23591E-07	9124.492418	3107.540021	6.294991741	382474
Los Angeles (SC)	2022	Agricultural - Nut Harvester	Aggregate	300	Diesel	6.30433E-06	7.62824E-06	9.07824E-06	4.31816E-05	7.71576E-05	0.003198337	3.2211E-06	2.96341E-06	2.95794E-08	2.62795E-08	741.0187686	161.5134723	0.331594282	31999.63
Los Angeles (SC)	2022	Agricultural - Nut Harvester	Aggregate	600	Diesel	4.40579E-05	5.33101E-05	6.34434E-05	0.000351858	0.000577564	0.027597517	2.41827E-05	2.22481E-05	2.55542E-07	2.26758E-07	6394.034922	845.6770782	1.984648872	274845.1
Los Angeles (SC)	2022	Agricultural - Other Harvesters	Aggregate	50	Diesel	3.04419E-05	3.68347E-05	4.38364E-05	0.000188924	0.000176171	0.002930534	9.88796E-06	9.09692E-06	2.63627E-08	2.40791E-08	678.971901	688.7303064	0.546347887	26252.5
Los Angeles (SC)	2022	Agricultural - Other Harvesters	Aggregate	75	Diesel	3.66021E-05	4.42885E-05	5.2707E-05	0.000336617	0.000341611	0.007501586	2.03972E-05	1.87654E-05	6.8723E-08	6.16376E-08	1738.033344	1006.043111	0.71743871	67852.67
Los Angeles (SC)	2022	Agricultural - Other Harvesters	Aggregate	100	Diesel	0.000128936	0.000156012	0.000185667	0.001150825	0.000997909	0.025407951	8.81044E-05	8.10561E-05	2.32617E-07	2.08767E-07	5886.73707	2656.847352	2.14084152	227648.7
Los Angeles (SC)	2022	Agricultural - Other Harvesters	Aggregate	175	Diesel	9.3116E-05	0.00011267	0.000134087	0.000729331	0.000867991	0.016816246	5.18033E-05	4.76591E-05	1.53724E-07	1.38173E-07	3896.135395	1283.995529	1.894175295	170524.2
Los Angeles (SC)	2022	Agricultural - Other Harvesters	Aggregate	300	Diesel	7.88885E-05	9.54551E-05	0.000113599	0.000310865	0.000859897	0.016862171	3.54736E-05	3.26357E-05	1.54578E-07	1.3855E-07	3906.77589	778.0129336	1.171866959	166032.4
Los Angeles (SC)	2022	Agricultural - Other Harvesters	Aggregate	600	Diesel	2.09106E-05	2.53018E-05	3.01113E-05	0.000110743	0.000225976	0.004209798	9.47856E-06	8.72027E-06	3.85554E-08	3.45903E-08	975.3630301	109.3783566	0.182738339	42099.54
Los Angeles (SC)	2022	Agricultural - Others	Aggregate	50	Diesel	2.11365E-05	2.55752E-05	3.04366E-05	8.87387E-05	8.59165E-05	0.001361464	6.25427E-06	5.75393E-06	1.20377E-08	1.11866E-08	315.4359625	300.660646	0.572829153	13529.73
Los Angeles (SC)	2022	Agricultural - Others	Aggregate	75	Diesel	3.94519E-06	4.77368E-06	5.68108E-06	2.52788E-05	3.49851E-05	0.000561362	2.39458E-06	2.20301E-06	5.10652E-09	4.61249E-09	130.0612071	85.82470442	0.17383289	5578.606
Los Angeles (SC)	2022	Agricultural - Others	Aggregate	100	Diesel	1.60126E-05	1.93753E-05	2.30582E-05	0.000104127	0.000131471	0.002308763	1.05931E-05	9.74565E-06	2.10085E-08	1.89702E-08	534.9145259	263.5117819	0.528674867	22943.64
Los Angeles (SC)	2022	Agricultural - Others	Aggregate	175	Diesel	4.50488E-05	5.4509E-05	6.48702E-05	0.00034113	0.000446301	0.007929058	2.5205E-05	2.31886E-05	7.24483E-08	6.515E-08	1837.073858	687.0591409	1.39121158	87598.89
Los Angeles (SC)	2022	Agricultural - Others	Aggregate	300	Diesel	5.05254E-05	6.11357E-05	7.27566E-05	0.000208666	0.000571278	0.010384904	2.42874E-05	2.23444E-05	9.51418E-08	8.53287E-08	2406.065828	527.0235294	1.057349722	114730.7
Los Angeles (SC)	2022	Agricultural - Others	Aggregate	600	Diesel	0.000234225	0.000283413	0.000337285	0.001411241	0.002677747	0.052542648	0.000112064	0.000103099	4.82014E-07	4.31722E-07	12173.54188	1553.67422	3.146875676	580482.2
Los Angeles (SC)	2022	Agricultural - Sprayers/Spray rigs	Aggregate	50	Diesel	5.2906E-06	6.40163E-06	7.61847E-06	0.000213999	0.000206552	0.003264793	1.5882E-05	1.4157E-05	2.87999E-08	2.68255E-08	756.4159638	818.8874546	1.462933369	30761.05
Los Angeles (SC)	2022	Agricultural - Sprayers/Spray rigs	Aggregate	75	Diesel	1.12168E-05	1.35723E-05	1.61522E-05	6.84968E-05	9.79157E-05	0.001504338	6.74904E-06	6.20912E-06	1.36651E-08	1.23606E-08	348.5381241	235.8295143	0.4230389	14235.26
Los Angeles (SC)	2022	Agricultural - Sprayers/Spray rigs	Aggregate	100	Diesel	3.65709E-05	4.42508E-05	5.26621E-05	0.000226819	0.000295937	0.004975974	2.38125E-05	2.19075E-05	4.52168E-08	4.08856E-08	1152.877253	536.1108723	0.955012484	47426.98
Los Angeles (SC)	2022	Agricultural - Sprayers/Spray rigs	Aggregate	175	Diesel	4.74844E-05	5.74562E-05	6.83776E-05	0.000349063	0.00047121	0.008028868	2.63906E-05	2.42794E-05	7.33042E-08	6.59701E-08	1860.198706	692.6990153	1.239410714	82605.47
Los Angeles (SC)	2022	Agricultural - Sprayers/Spray rigs	Aggregate	300	Diesel	1.99277E-05	2.41125E-05	2.86959E-05	8.31165E-05	0.000224832	0.003928412	9.66017E-06	8.88735E-06	3.59659E-08	3.22782E-08	910.1689086	187.0667835	0.33736746	40978.37
Los Angeles (SC)	2022	Agricultural - Sprayers/Spray rigs	Aggregate	600	Diesel	1.21696E-06	1.47253E-06	1.75243E-06	7.7458E-06	1.39057E-05	0.000261136	5.85209E-07	5.38393E-07	2.39402E-09	2.14565E-09	60.50226313	8.3260756	0.015236128	2747.605
Los Angeles (SC)	2022	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	50	Diesel	9.79144E-06	1.18476E-05	1.40997E-05	7.21288E-05	8.12168E-05	0.00147366	3.76025E-06	3.45943E-06	1.34224E-08	1.21085E-08	341.4303842	280.890355	0.643271364	12437.3
Los Angeles (SC)	2022	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	75	Diesel	2.26527E-05	2.74098E-05	3.26199E-05	0.000273255	0.000283825	0.006723914	1.39254E-05	1.28114E-05	6.19033E-08	5.52478E-08	1557.855464	866.1247964	1.873938685	55767.52
Los Angeles (SC)	2022	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	100	Diesel	4.46027E-05	5.39693E-05	6.42279E-05	0.000571775	0.000459415	0.014058247	3.44658E-05	3.17085E-05	1.29509E-07	1.15511E-07	3257.138177	1377.926427	2.990828805	118067.9
Los Angeles (SC)	2022	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	175	Diesel	2.44289E-05	2.95589E-05	3.51776E-05	0.000362185	0.00027038	0.009223101	1.53322E-05	1.41057E-05	8.51112E-08	7.57826E-08	2136.888922	695.5173163	1.44977716	82376.05
Los Angeles (SC)	2022	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	300	Diesel	1.16563E-05	1.41041E-05	1.67851E-05	6.87286E-05	0.000141453	0.004951447	5.69656E-06	5.24084E-06	4.57359E-08	4.06841E-08	1147.19462	220.7229973	0.456670334	45373.82
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Narrow Body	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Narrow Body	Aggregate	50	Diesel	0.0002815	0.000340615	0.000405361	0.001186355	0.001008689	0.099969246	0.000107875	9.92449E-05	9.1582E-07	8.15936E-07	3243.392078	2441.784094	7.712762499	105336.4
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Narrow Body	Aggregate	75	Diesel	4.33777E-06	5.24871E-06	6.24639E-06	0.000105878	9.0909E-05	0.016727433	6.23349E-06	5.73481E-06	1.54523E-07	1.36527E-07	542.7031454	340.819389	1.028368333	19597.11
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Narrow Body	Aggregate	100	Diesel	0.000687503	0.000831878	0.000990004	0.006488888	0.00759093	0.946566021	0.000508148	0.000467496	8.73085E-06	7.72574E-06	30710.29208	12553.13673	38.04962833	1108344
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Narrow Body	Aggregate	175	Diesel	0.001150254	0.001391807	0.001656365	0.017392845	0.016243151	2.933663451	0.000893607	0.000822118	2.70887E-05	2.39442E-05	95179.4798	26127.59934	79.69854583	3436840
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Narrow Body	Aggregate	300	Diesel	0.000415097	0.000502267	0.00059774	0.00292716	0.007532067	1.530778314	0.000212206	0.00019523	1.41404E-05	1.2494E-05	49664.41654	8009.255642	24.16665583	1793392
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Narrow Body	Aggregate	750	Diesel	0.000123093	0.000148943	0.000177254	0.000610573	0.001677752	0.101819158	7.72059E-05	7.10295E-05	9.37676E-07	8.31034E-07	3303.41045	170.4096945	0.514184167	119286.8
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Wide Body	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Wide Body	Aggregate	50	Diesel	3.17536E-06	3.84218E-06	4.57252E-06	6.6816E-05	5.29988E-05	0.010521523	2.19623E-07	2.02053E-07	9.71814E-08	8.58753E-08	341.3592404	235.504762	0.586000148	11068.72
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Wide Body	Aggregate	75	Diesel	1.7301E-05	2.09342E-05	2.49135E-05	0.000240723	0.000235998	0.036766623	1.19612E-05	1.10043E-05	3.39407E-07	3.00084E-07	1192.852594	706.5142859	1.758000443	41684.34
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Wide Body	Aggregate	100	Diesel	8.69713E-05	0.000105235	0.000125239	0.000946691	0.001215048	0.138741342	7.36495E-05	6.77575E-05	1.28012E-06	1.13239E-06	4501.310055	1884.038096	4.688001182	162262.8
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Wide Body	Aggregate	175	Diesel	9.95262E-05	0.000120427	0.000143318	0.002080741	0.001314181	0.369507058	6.04498E-05	5.56138E-05	3.41329E-06	3.01587E-06	11988.24956	2826.057144	7.032001773	432151.2
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Wide Body	Aggregate	300	Diesel	0.000658331	0.00079658	0.000947997	0.0064983	0.008848547	3.480809192	0.000269728	0.00024815	3.21621E-05	2.84099E-05	112931.0208	16849.8818	42.19201064	4070939
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Wide Body	Aggregate	600	Diesel	0.000636544	0.000770218	0.000916624	0.004625085	0.011045701	1.711003235	0.000365178	0.000335964	1.58E-05	1.3965E-05	55511.61562	5439.192173	14.06400355	2001119
Los Angeles (SC)	2022	AirGrSupp - A/C Tug Wide Body	Aggregate	750	Diesel	7.88527E-05	9.54118E-05	0.000113548	0.000283246	0.001782112	0.138974942	4.59654E-05	4.22881E-05	1.28253E-06	1.13429E-06	4508.88894	258.0874104	1.172000296	162595.1
Los Angeles (SC)	2022	AirGrSupp - Baggage Tug	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	AirGrSupp - Baggage Tug	Aggregate	50	Diesel	0.000439521	0.00053182	0.00063291	0.002354503	0.001856616	0.219384339	0.000176925	0.000162771	2.01513E-06	1.79059E-06	7117.683267	7470.481302	10.32740147	335586.5
Los Angeles (SC)	2022	AirGrSupp - Baggage Tug	Aggregate	75	Diesel	0.000602439	0.000728951	0.000867512	0.010694223	0.008182704	1.570615012	0.00039404	0.000362517	1.4503E-05	1.28191E-05	50956.87434	40181.75436	54.54986417	2670916
Los Angeles (SC)	2022	AirGrSupp - Baggage Tug	Aggregate	100	Diesel	0.000559757	0.000677306	0.00080605	0.010776555	0.00805022	1.578468129	0.00025433	0.000233984	1.45769E-05	1.28832E-05	51211.66007	30018.66925	41.30960587	2687359
Los Angeles (SC)	2022	AirGrSupp - Baggage Tug	Aggregate	175	Diesel	1.28381E-06	1.5534E-06	1.84868E-06	7.59108E-05	7.0795E-06	0.014337755	2.46837E-07	2.2709E-07	1.32521E-07	1.17023E-07	465.1726643	195.05706	0.264805166	24382.13
Los Angeles (SC)	2022	AirGrSupp - Baggage Tug	Aggregate	300	Diesel	5.60355E-05	6.7803E-05	8.06912E-05	0.0001895	0.001184693	0.082585468	3.07204E-05	2.82628E-05	7.61863E-07	6.74051E-07	2679.394546	780.22824	1.059220663	140441.1
Los Angeles (SC)	2022	AirGrSupp - Belt Loader	Aggregate	25	Diesel	7.44228E-07	9.00516E-07	1.07169E-06	2.35116E-05	2.25049E-05	0.004736415	7.45417E-08	6.85784E-08	4.37682E-08	3.8658E-08	153.6677691	318.7123401	0.618506008	7967.809
Los Angeles (SC)	2022	AirGrSupp - Belt Loader	Aggregate	50	Diesel	0.000218648	0.000264564	0.000314853	0.001273979	0.001028474	0.136124568	7.99865E-05	7.35875E-05	1.25198E-06	1.11103E-06	4416.411684	4940.041271	9.58684313	228994.8
Los Angeles (SC)	2022	AirGrSupp - Belt Loader	Aggregate	75	Diesel	0.000646696	0.000782502	0.000931242	0.005809633	0.007379754	0.82022217	0.000527818	0.000485593	7.56396E-06	6.69454E-06	26611.205	24381.49402	47.31570964	1533962
Los Angeles (SC)	2022	AirGrSupp - Belt Loader	Aggregate	100	Diesel	0.000555762	0.000672472	0.000800298	0.005426285	0.006036111	0.759407563	0.00050078	0.000467176	7.00443E-06	6.19818E-06	24638.14204	16549.88737	32.47156544	1420239
Los Angeles (SC)	2022	AirGrSupp - Belt Loader	Aggregate	175	Diesel	2.16071E-05	2.61446E-05	3.11142E-05	0.000311548	0.000225035	0.05100177	1.51793E-05	1.39649E-05	4.70888E-07	4.1627E-07	1654.696257	705.5256075	1.546265021	95388.97
Los Angeles (SC)	2022	AirGrSupp - Belt Loader	Aggregate	300	Diesel	1.06513E-05	1.28881E-05	1.53379E-05	8.54485E-05	0.000124347	0.044905161	5.65541E-06	5.20297E-06	4.14851E-07	3.6651E-07	1456.898507	318.7123401	0.618506008	83980.7
Los Angeles (SC)	2022	AirGrSupp - Belt Loader	Aggregate	600	Diesel	2.93305E-06	3.54899E-06	4.22359E-06	6.8177E-06	1.89161E-05	0.038770111	6.3657E-07	5.85645E-07	3.58361E-07	3.16436E-07	1257.85355	159.35617	0.309253004	72507.06
Los Angeles (SC)	2022	AirGrSupp - Belt Loader	Aggregate	750	Diesel	3.95863E-05	4.78994E-05	5.70042E-05	0.000610784	0.000528463	0.022737473	2.68869E-05	2.4736E-05	2.09032E-07	1.8558E-07	737.6922644	68.10092737	0.309253004	42563.08
Los Angeles (SC)	2022	AirGrSupp - Bobtail	Aggregate	25	Diesel	1.68841E-06	2.04298E-06	2.43131E-06	3.28617E-05	4.10022E-05	0.00482366	1.50954E-06	1.38877E-06	4.45465E-08	3.93701E-08	156.4983446	295.1374014	0.636697362	7378.435
Los Angeles (SC)	2022	AirGrSupp - Bobtail	Aggregate	50	Diesel	2.31675E-05	2.80326E-05	3.33612E-05	0.000209058	0.000174667	0.03043453	6.67543E-06	6.1414E-06	2.80687E-07	2.48403E-07	987.4148116	1025.619996	2.546789446	46558.8
Los Angeles (SC)	2022	AirGrSupp - Bobtail	Aggregate	75	Diesel	6.72657E-06	8.13915E-06	9.68626E-06	8.94613E-05	0.000127826	0.012843232	7.12291E-06	6.55308E-06	1.1854E-07	1.04825E-07	416.684514	295.1374014	0.636697362	21840.17
Los Angeles (SC)	2022	AirGrSupp - Bobtail	Aggregate	100	Diesel	1.68989E-05	2.04476E-05	2.43344E-05	0.000384561	0.000297781	0.059183001	1.38103E-05	1.27055E-05	5.46669E-07	4.83044E-07	1920.127288	1180.549606	2.546789446	100641.9
Los Angeles (SC)	2022	AirGrSupp - Bobtail	Aggregate	175	Diesel	5.35666E-05	6.48156E-05	7.71359E-05	0.000611386	0.000585512	0.094503699	3.80973E-05	3.50495E-05	8.72127E-07	7.71326E-07	3066.068445	1320.757397	3.183486808	160719.5
Los Angeles (SC)	2022	AirGrSupp - Bobtail	Aggregate	300	Diesel	0.000141727	0.00017149	0.000204087	0.001218602	0.001679434	0.516773133	7.08887E-05	6.52176E-05	4.77357E-06	4.21783E-06	16766.13517	4272.131411	9.550460423	878804.9
Los Angeles (SC)	2022	AirGrSupp - Cargo Loader	Aggregate	25	Diesel	1.15493E-05	1.39746E-05	1.6631E-05	0.000140265	0.000133252	0.020192981	6.92531E-06	6.37128E-06	1.86348E-07	1.64812E-07	655.1390258	1360.883532	2.834819205	34022.09
Los Angeles (SC)	2022	AirGrSupp - Cargo Loader	Aggregate	50	Diesel	3.32527E-05	4.02358E-05	4.78839E-05	0.000329069	0.000312274	0.04506261	1.24027E-05	1.14104E-05	4.15629E-07	3.67795E-07	1462.006755	2030.088645	4.535710728	75919.82
Los Angeles (SC)	2022	AirGrSupp - Cargo Loader	Aggregate	100	Diesel	0.000626345	0.000757877	0.000901937	0.013295549	0.010125751	2.051521154	0.000393494	0.000362015	1.89485E-05	1.67442E-05	66559.3445	44524.61332	95.81688913	3840906
Los Angeles (SC)	2022	AirGrSupp - Cargo Loader	Aggregate	175	Diesel	0.00051136	0.000618746	0.000736358	0.017228724	0.006533609	3.026491052	0.000204591	0.000188224	2.79661E-05	2.47018E-05	98191.16911	43128.77131	90.14725072	5668829
Los Angeles (SC)	2022	AirGrSupp - Cargo Loader	Aggregate	300	Diesel	5.29858E-05	6.41128E-05	7.62995E-05	0.00056107	0.00056252	0.293254574	2.09227E-05	1.92489E-05	2.70969E-06	2.3935E-06	9514.321683	2574.442058	5.66963841	549272.6
Los Angeles (SC)	2022	AirGrSupp - Cargo Loader	Aggregate	600	Diesel	2.65549E-05	3.21314E-05	3.8239E-05	0.000496821	0.000136833	0.27550828	4.74024E-06	4.36102E-06	2.54641E-06	2.24866E-06	8938.562718	1633.060238	3.401783046	516047
Los Angeles (SC)	2022	AirGrSupp - Cargo Loader	Aggregate	750	Diesel	3.18388E-05	3.85249E-05	4.58479E-05	0.00055181	0.000151519	0.302826611	5.31081E-06	4.88594E-06	2.79883E-06	2.47163E-06	9824.875899	816.5301191	1.700891523	567216.3
Los Angeles (SC)	2022	AirGrSupp - Cargo Tractor	Aggregate	25	Diesel	7.08312E-06	8.57058E-06	1.01997E-05	0.000137014	0.000102773	0.019991331	4.54561E-06	4.18196E-06	1.84617E-07	1.63167E-07	648.5967165	1247.616442	1.798586946	31190.41
Los Angeles (SC)	2022	AirGrSupp - Cargo Tractor	Aggregate	50	Diesel	0.000138283	0.000167322	0.000199127	0.000926988	0.00075127	0.103356449	5.19189E-05	4.77654E-05	9.51433E-07	8.43581E-07	3353.286157	4762.72626	8.093641259	161244.5
Los Angeles (SC)	2022	AirGrSupp - Cargo Tractor	Aggregate	75	Diesel	0.001667065	0.002017148	0.002400573	0.013834051	0.016107571	1.901640062	0.001308572	0.001203887	1.75316E-05	1.55209E-05	61696.61753	54127.74033	80.48676585	3303727
Los Angeles (SC)	2022	AirGrSupp - Cargo Tractor	Aggregate	100	Diesel	0.000395922	0.000479066	0.000570128	0.004585698	0.004501404	0.690624569	0.000300406	0.000276373	6.37329E-06	5.63678E-06	22406.55356	13298.007	19.78445641	1197875
Los Angeles (SC)	2022	AirGrSupp - Cargo Tractor	Aggregate	175	Diesel	0.000211541	0.000255965	0.000304619	0.003287064	0.002261285	0.551392122	0.000129895	0.000119503	5.09155E-06	4.50039E-06	17889.31015	6649.0035	9.892228205	956377.2
Los Angeles (SC)	2022	AirGrSupp - Cargo Tractor	Aggregate	300	Diesel	0.000425129	0.000514406	0.000612186	0.002432285	0.006134158	0.805476677	0.000238717	0.000219619	7.43428E-06	6.57419E-06	26132.80371	6436.116567	9.892228205	1397068
Los Angeles (SC)	2022	AirGrSupp - Cargo Tractor	Aggregate	600	Diesel	0.000288376	0.000348934	0.000415261	0.001684524	0.003391721	0.835282396	0.000112734	0.000103715	7.71395E-06	6.81746E-06	27099.81744	3742.849327	5.395760839	1448795
Los Angeles (SC)	2022	AirGrSupp - Forklift	Aggregate	25	Diesel	4.38217E-07	5.30243E-07	6.31033E-07	9.96368E-06	8.26794E-06	0.001666795	3.24912E-08	2.98919E-08	1.53972E-08	1.36042E-08	54.0773166	186.9271918	0.475548879	4673.18
Los Angeles (SC)	2022	AirGrSupp - Forklift	Aggregate	50	Diesel	0.000149824	0.000181287	0.000215747	0.000755651	0.000668121	0.074732556	6.23386E-05	5.73515E-05	6.86445E-07	6.09957E-07	2424.615468	5443.403602	14.26646637	209532.8
Los Angeles (SC)	2022	AirGrSupp - Forklift	Aggregate	75	Diesel	5.80385E-05	7.02266E-05	8.35755E-05	0.000370294	0.000628473	0.044135605	4.65826E-05	4.2856E-05	4.06314E-07	3.60229E-07	1431.931097	1996.508074	5.70658655	137751.2
Los Angeles (SC)	2022	AirGrSupp - Forklift	Aggregate	100	Diesel	0.000621653	0.000752201	0.000895181	0.006050616	0.006906988	0.881864766	0.000505421	0.000464988	8.13463E-06	7.19766E-06	28611.13113	31105.31304	82.26995609	2745208
Los Angeles (SC)	2022	AirGrSupp - Forklift	Aggregate	175	Diesel	0.000356098	0.000430879	0.000512781	0.003000607	0.004288231	0.475032547	0.000259347	0.000238599	4.38123E-06	3.87715E-06	15411.90784	11283.17663	29.95957939	1479754
Los Angeles (SC)	2022	AirGrSupp - Forklift	Aggregate	300	Diesel	9.73778E-05	0.000117827	0.000140224	0.000873619	0.00123642	0.398710069	4.3698E-05	4.02022E-05	3.68335E-06	3.25422E-06	12935.70909	5256.47641	13.7909175	1242783
Los Angeles (SC)	2022	AirGrSupp - Forklift	Aggregate	600	Diesel	3.8232E-05	4.62608E-05	5.50542E-05	0.000136353	0.00085645	0.066089061	2.24382E-05	2.06432E-05	6.09879E-07	5.3941E-07	2144.18681	560.7815754	1.426646637	205993.8
Los Angeles (SC)	2022	AirGrSupp - Lift	Aggregate	25	Diesel	2.30859E-06	2.7934E-06	3.32437E-06	4.39792E-05	5.40376E-05	0.00631983	1.94933E-06	1.79338E-06	5.83607E-08	5.15816E-08	205.0399147	425.1818548	1.016206626	10629.55
Los Angeles (SC)	2022	AirGrSupp - Lift	Aggregate	50	Diesel	6.78147E-05	8.20558E-05	9.76532E-05	0.000953627	0.00094406	0.150250199	2.9328E-05	2.69817E-05	1.3871E-06	1.22632E-06	4874.702231	5639.254075	13.71878946	252714.7
Los Angeles (SC)	2022	AirGrSupp - Lift	Aggregate	75	Diesel	3.87486E-05	4.68858E-05	5.57979E-05	0.000891223	0.000645548	0.140205478	1.66676E-05	1.53342E-05	1.29511E-06	1.14434E-06	4548.812324	3725.935728	9.145859637	262169.4
Los Angeles (SC)	2022	AirGrSupp - Lift	Aggregate	100	Diesel	0.000214619	0.000259689	0.000309051	0.005696599	0.003579036	0.912922054	0.000135222	0.000124405	8.43398E-06	7.45115E-06	29618.75065	19882.84621	47.76171144	1707027
Los Angeles (SC)	2022	AirGrSupp - Lift	Aggregate	175	Diesel	8.16136E-05	9.87525E-05	0.000117524	0.001273817	0.000856907	0.212382214	5.61578E-05	5.16651E-05	1.96113E-06	1.73344E-06	6890.507048	3188.863911	7.621549697	397119.9
Los Angeles (SC)	2022	AirGrSupp - Lift	Aggregate	300	Diesel	7.63848E-05	9.24256E-05	0.000109994	0.00125004	0.000781247	0.445652201	3.30853E-05	3.04384E-05	4.11798E-06	3.63735E-06	14458.69486	3725.935728	9.145859637	833334.1
Los Angeles (SC)	2022	AirGrSupp - Other GSE	Aggregate	25	Diesel	5.24632E-06	6.34805E-06	7.5547E-06	0.000103605	7.88473E-05	0.015420781	3.42918E-07	3.15485E-07	1.42415E-07	1.25862E-07	500.3102691	1037.62737	2.127299262	25940.68
Los Angeles (SC)	2022	AirGrSupp - Other GSE	Aggregate	50	Diesel	0.001895368	0.002293395	0.00272933	0.014699441	0.013329188	1.845388054	0.000798727	0.000734829	1.70047E-05	1.50618E-05	59871.58308	90072.14561	189.3296343	3103078
Los Angeles (SC)	2022	AirGrSupp - Other GSE	Aggregate	75	Diesel	0.000399067	0.000482871	0.000574657	0.006370864	0.005447533	0.969531341	0.00029458	0.000271014	8.95183E-06	7.91318E-06	31455.37661	27396.40752	58.5007297	1813200
Los Angeles (SC)	2022	AirGrSupp - Other GSE	Aggregate	100	Diesel	0.000459412	0.000555889	0.000661554	0.008808245	0.006706828	1.35495619	0.000327934	0.000301699	1.25135E-05	1.1059E-05	43960.06135	29287.79375	60.62802896	2529678
Los Angeles (SC)	2022	AirGrSupp - Other GSE	Aggregate	175	Diesel	0.000797708	0.000965227	0.0011487	0.019075957	0.009462615	3.363693559	0.000395794	0.00036413	3.10751E-05	2.7454E-05	109131.3331	39094.89487	81.90102158	6290614
Los Angeles (SC)	2022	AirGrSupp - Other GSE	Aggregate	300	Diesel	0.000960916	0.001162708	0.001383719	0.00767753	0.013228935	3.585742616	0.000457492	0.000420893	3.31231E-05	2.92663E-05	116335.4702	29756.24855	62.75532823	6705905
Los Angeles (SC)	2022	AirGrSupp - Other GSE	Aggregate	600	Diesel	0.000518977	0.000627962	0.000747327	0.005255415	0.006052016	2.236680334	0.000246861	0.000227112	2.06636E-05	1.82555E-05	72566.63017	11648.12846	24.46394151	4182935
Los Angeles (SC)	2022	AirGrSupp - Passenger Stand	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	AirGrSupp - Passenger Stand	Aggregate	50	Diesel	1.117E-05	1.35158E-05	1.60849E-05	0.000102688	0.000127437	0.018731867	6.48402E-06	5.9653E-06	1.7285E-07	1.52887E-07	607.7347904	621.5750367	10.96728697	26872.63
Los Angeles (SC)	2022	AirGrSupp - Passenger Stand	Aggregate	75	Diesel	2.17636E-06	2.6334E-06	3.13396E-06	0.000116215	6.23387E-05	0.020015771	4.02652E-07	3.7044E-07	1.8499E-07	1.63366E-07	649.3896369	583.4415989	15.58509201	32067.68
Los Angeles (SC)	2022	AirGrSupp - Passenger Stand	Aggregate	100	Diesel	2.80508E-06	3.39415E-06	4.03932E-06	1.2676E-05	3.17972E-05	0.001348772	1.68865E-06	1.55356E-06	1.23859E-08	1.10085E-08	43.75940949	21.60894811	0.57722563	2160.895
Los Angeles (SC)	2022	AirGrSupp - Passenger Stand	Aggregate	175	Diesel	5.78448E-06	6.99922E-06	8.32965E-06	5.4829E-05	9.02915E-05	0.008813909	5.45143E-06	5.01532E-06	8.13154E-08	7.19179E-08	285.9575607	127.1114595	0.57722563	13982.26
Los Angeles (SC)	2022	AirGrSupp - Passenger Stand	Aggregate	300	Diesel	1.88884E-06	2.2855E-06	2.71993E-06	1.29134E-05	4.32119E-05	0.007350805	9.2303E-07	8.49187E-07	6.79052E-08	5.99963E-08	238.4887817	43.21789621	1.15445126	11776.88
Los Angeles (SC)	2022	AirGrSupp - Passenger Stand	Aggregate	600	Diesel	5.99008E-07	7.248E-07	8.62572E-07	1.4525E-05	4.03511E-06	0.008294945	1.35114E-07	1.24305E-07	7.66729E-08	6.77022E-08	269.1203634	43.21789621	1.15445126	13289.5
Los Angeles (SC)	2022	CHC - AE Barge and Dredge	Aggregate		Diesel	0.003488586	0.004221189	0.005023563	0.045762618	0.110011891	3.368749467	0.002819768	0.002594187	3.10411E-05	0.000195041	775301.1635	0	0	0
Los Angeles (SC)	2022	CHC - AE Charter Fishing	Aggregate		Diesel	0.002968503	0.003591888	0.004274644	0.012415206	0.016609103	0.224839779	0.000896253	0.000824553	1.9897E-06	1.30176E-05	51745.77219	0	0	0
Los Angeles (SC)	2022	CHC - AE Commercial Fishing	Aggregate		Diesel	0.002132215	0.00257998	0.00307039	0.009929917	0.019165488	0.171804732	0.001064325	0.000979179	1.52445E-06	9.94703E-06	39540.01633	0	0	0
Los Angeles (SC)	2022	CHC - AE Crew and Supply	Aggregate		Diesel	0.000703711	0.000851491	0.001013344	0.002625489	0.00330725	0.055169409	0.000123845	0.000113937	4.88957E-07	3.19416E-06	12696.96885	0	0	0
Los Angeles (SC)	2022	CHC - AE Ferry and Excursion	Aggregate		Diesel	0.009451675	0.011436526	0.013610411	0.05389606	0.064311027	1.106337722	0.00226367	0.002082576	9.94509E-06	6.40539E-05	254618.1993	0	0	0
Los Angeles (SC)	2022	CHC - AE Others	Aggregate		Diesel	0.000332789	0.000402674	0.000479216	0.001397717	0.001983793	0.024063127	0.000112421	0.000103427	2.12492E-07	1.39319E-06	5538.010647	0	0	0
Los Angeles (SC)	2022	CHC - AE Pilot Vessels	Aggregate		Diesel	6.16586E-05	7.46069E-05	8.87884E-05	0.000202481	0.000216489	0.003065196	1.39077E-05	1.2795E-05	2.64859E-08	1.77466E-07	705.4398136	0	0	0
Los Angeles (SC)	2022	CHC - AE Tow Boats	Aggregate		Diesel	8.92504E-05	0.000107993	0.000128521	0.000518365	0.000668614	0.010913175	2.57392E-05	2.36801E-05	9.82202E-08	6.31843E-07	2511.61379	0	0	0
Los Angeles (SC)	2022	CHC - AE Tug Boats	Aggregate		Diesel	0.002757227	0.003336244	0.003970406	0.016467901	0.020441128	0.346336857	0.000729218	0.000670881	3.11934E-06	2.0052E-05	79707.72854	0	0	0
Los Angeles (SC)	2022	CHC - AE Work Boats	Aggregate		Diesel	0.000283037	0.000342474	0.000407573	0.0017501	0.002387994	0.035315839	8.4599E-05	7.78311E-05	3.18021E-07	2.04469E-06	8127.76698	0	0	0
Los Angeles (SC)	2022	CHC - ME Barge and Dredge	Aggregate		Diesel	0.000573618	0.000694077	0.000826009	0.005316059	0.021179538	0.402727469	0.000587939	0.000540904	3.70621E-06	2.33168E-05	92685.75121	0	0	0
Los Angeles (SC)	2022	CHC - ME Charter Fishing	Aggregate		Diesel	0.024640739	0.029815294	0.035482664	0.16230943	0.324409068	3.744526299	0.013234946	0.012176151	3.38808E-05	0.000216798	861784.3578	0	0	0
Los Angeles (SC)	2022	CHC - ME Commercial Fishing	Aggregate		Diesel	0.0058929	0.007127251	0.008482017	0.02788115	0.104922136	0.669544365	0.004588096	0.004221048	6.01356E-06	3.87648E-05	154092.351	0	0	0
Los Angeles (SC)	2022	CHC - ME Crew and Supply	Aggregate		Diesel	0.013382343	0.016192635	0.019270574	0.098746991	0.108505243	2.070520163	0.002547947	0.002344112	1.87415E-05	0.000119877	476520.0581	0	0	0
Los Angeles (SC)	2022	CHC - ME Ferry and Excursion	Aggregate		Diesel	0.151080169	0.182807004	0.217555443	1.377014996	1.468778681	27.99195806	0.03777483	0.034752844	0.000254267	0.001620658	6442211.826	0	0	0
Los Angeles (SC)	2022	CHC - ME Others	Aggregate		Diesel	0.005898644	0.007137359	0.008494048	0.033332795	0.087168728	0.81008537	0.003966773	0.003649432	7.31268E-06	4.69017E-05	186437.1738	0	0	0
Los Angeles (SC)	2022	CHC - ME Pilot Vessels	Aggregate		Diesel	0.004390668	0.005312709	0.006322562	0.028604818	0.055307221	0.711848283	0.002335398	0.002148566	6.44967E-06	4.12141E-05	163828.3901	0	0	0
Los Angeles (SC)	2022	CHC - ME Tow Boats	Aggregate		Diesel	0.00077445	0.000937085	0.001115208	0.007075581	0.007471438	0.147120706	0.000170065	0.000156459	1.33697E-06	8.51789E-06	33859.10865	0	0	0
Los Angeles (SC)	2022	CHC - ME Tug Boats	Aggregate		Diesel	0.04698635	0.056853483	0.067660344	0.42113015	0.501814445	8.604972345	0.014843588	0.013656101	7.81476E-05	0.000498204	1980392.171	0	0	0
Los Angeles (SC)	2022	CHC - ME Work Boats	Aggregate		Diesel	0.00211061	0.002553838	0.003039278	0.014212617	0.025727141	0.321457304	0.001056984	0.000972425	2.90871E-06	1.86115E-05	73981.82149	0	0	0
Los Angeles (SC)	2022	CHE - Port Construction Equipment	Aggregate	50	Diesel	0.000370819	0.000448691	0.00053398	0.00346968	0.002421322	0.335418566	3.92024E-05	3.60662E-05	3.08999E-06	2.73764E-06	10882.28598	7644.576899	2.333227295	344006
Los Angeles (SC)	2022	CHE - Port Construction Equipment	Aggregate	75	Diesel	0.001043846	0.001263054	0.001503139	0.010358385	0.011076438	1.508120786	0.00020311	0.000186861	1.3912E-05	1.23091E-05	48929.31801	23051.32174	7.201680399	1545778
Los Angeles (SC)	2022	CHE - Port Construction Equipment	Aggregate	100	Diesel	0.000783543	0.000948087	0.001128302	0.012511783	0.00474722	1.87160098	0.00011096	0.000102084	1.72804E-05	1.52758E-05	60722.03258	22767.48538	7.796362261	1909923
Los Angeles (SC)	2022	CHE - Port Construction Equipment	Aggregate	175	Diesel	0.002449504	0.0029639	0.003527286	0.034215004	0.022763492	5.141839188	0.000353945	0.000325629	4.74654E-05	4.1967E-05	166821.3097	42524.55695	14.0910154	5890188
Los Angeles (SC)	2022	CHE - Port Construction Equipment	Aggregate	300	Diesel	0.0042847	0.005184487	0.006169968	0.027138395	0.039835047	10.30873334	0.000520678	0.000479024	9.51808E-05	8.41385E-05	334455.5001	48177.38584	16.44557528	11822780
Los Angeles (SC)	2022	CHE - Port Construction Equipment	Aggregate	600	Diesel	0.015442664	0.018685623	0.022237436	0.101466805	0.139172097	42.73118511	0.001614689	0.001485514	0.000394608	0.000348766	1386366.241	128085.2583	43.53165845	48334310
Los Angeles (SC)	2022	CHE - Port Container Handling Equipment	Aggregate	175	Diesel	0.00601651	0.007279977	0.008663775	0.104188942	0.048413947	16.55207988	0.000669552	0.000615988	0.000152852	0.000135096	537014.0027	115377.8041	47.32529207	17555153
Los Angeles (SC)	2022	CHE - Port Container Handling Equipment	Aggregate	300	Diesel	0.033246689	0.040228494	0.047875233	0.263098246	0.264672333	120.5514915	0.003234426	0.002975672	0.001113561	0.000983925	3911160.377	507534.0894	207.1660895	1.28E+08
Los Angeles (SC)	2022	CHE - Port Container Handling Equipment	Aggregate	600	Diesel	0.033669386	0.040739958	0.048483916	0.265079542	0.220170906	129.7992546	0.003148094	0.002896247	0.001199048	0.001059404	4211193.866	413428.5224	166.2786712	1.38E+08
Los Angeles (SC)	2022	CHE - Port Forklift	Aggregate	50	Diesel	0.000278076	0.000336471	0.000400429	0.003610223	0.002923702	0.437611914	6.64282E-05	6.1114E-05	4.0376E-06	3.57173E-06	14197.8366	19337.32035	20.93232621	817358.5
Los Angeles (SC)	2022	CHE - Port Forklift	Aggregate	75	Diesel	0.000312917	0.000378629	0.0004506	0.005036938	0.004700921	0.816438315	9.29613E-05	8.55244E-05	7.53899E-06	6.66366E-06	26488.44199	22432.02864	24.14672653	1527117
Los Angeles (SC)	2022	CHE - Port Forklift	Aggregate	100	Diesel	0.000909987	0.001101084	0.001310381	0.026557556	0.003816016	4.467740501	0.000160747	0.000147887	4.12792E-05	3.64651E-05	144950.9202	97348.32602	107.4537511	8390068
Los Angeles (SC)	2022	CHE - Port Forklift	Aggregate	175	Diesel	0.002626415	0.003177962	0.003782037	0.063339833	0.022983979	10.68513588	0.00044535	0.000409722	9.87106E-05	8.72106E-05	346667.4662	151972.657	162.3601448	22325758
Los Angeles (SC)	2022	CHE - Port Forklift	Aggregate	300	Diesel	0.001284643	0.001554417	0.001849885	0.011980894	0.00994641	5.892376285	0.000158415	0.000145741	5.44394E-05	4.80928E-05	191171.6593	58088.02534	64.60991418	12340190
Los Angeles (SC)	2022	CHE - Port Forklift	Aggregate	600	Diesel	0.000304362	0.000368278	0.000438281	0.003472425	0.001825356	1.816061132	3.66326E-05	3.3702E-05	1.67813E-05	1.48224E-05	58920.10339	11811.68666	13.01791249	3807658
Los Angeles (SC)	2022	CHE - Port Other General Industrial Equipment	Aggregate	50	Diesel	0.001405808	0.001701028	0.002024364	0.012530209	0.009133904	1.25313846	0.00017092	0.000157246	1.15437E-05	1.02279E-05	40656.69725	30314.94341	14.22888573	1383407
Los Angeles (SC)	2022	CHE - Port Other General Industrial Equipment	Aggregate	75	Diesel	0.000647755	0.000783784	0.000932768	0.006943592	0.007303657	1.04695865	0.00014416	0.000132627	9.66022E-06	8.54514E-06	33967.42038	18154.59492	9.450525614	1147613
Los Angeles (SC)	2022	CHE - Port Other General Industrial Equipment	Aggregate	100	Diesel	0.001248066	0.00151016	0.001797215	0.017676972	0.00755487	2.688310197	0.00018816	0.000173107	2.48173E-05	2.19416E-05	87219.2637	35782.43244	17.71299725	2985695
Los Angeles (SC)	2022	CHE - Port Other General Industrial Equipment	Aggregate	175	Diesel	0.002555664	0.003092353	0.003680156	0.034693691	0.024926005	5.410917902	0.000449988	0.000413989	4.99499E-05	4.41632E-05	175551.2723	49344.0117	26.11529229	6543463
Los Angeles (SC)	2022	CHE - Port Other General Industrial Equipment	Aggregate	300	Diesel	0.001745598	0.002112174	0.002513661	0.011316507	0.016650747	4.544707708	0.000218329	0.000200863	4.19657E-05	3.70933E-05	147448.0365	25268.07011	12.64064231	5742976
Los Angeles (SC)	2022	CHE - Port Other General Industrial Equipment	Aggregate	600	Diesel	0.00328018	0.003969018	0.004723459	0.032520021	0.032970435	6.551628095	0.000515657	0.000474404	6.04746E-05	5.34735E-05	212560.3582	17201.1392	7.786779801	7993660
Los Angeles (SC)	2022	CHE - Port RTG Crane	Aggregate	300	Diesel	0.000815247	0.000986449	0.001173956	0.00601625	0.006578085	2.284637198	9.44137E-05	8.68606E-05	2.10981E-05	1.86469E-05	74122.53781	31254.8942	16.82223682	7162033
Los Angeles (SC)	2022	CHE - Port RTG Crane	Aggregate	600	Diesel	0.009749757	0.011797206	0.01403965	0.069706926	0.072182816	33.33524695	0.00088371	0.000813013	0.000307908	0.000272078	1081525.375	210315.3259	109.8211631	1.05E+08
Los Angeles (SC)	2022	CHE - Port RTG Crane	Aggregate	750	Diesel	0.010531685	0.012743339	0.015165627	0.075471867	0.074974945	36.78768747	0.000926395	0.000852283	0.000339804	0.000300256	1193536.006	175478.0435	91.06402098	1.15E+08
Los Angeles (SC)	2022	CHE - Port RTG Crane	Aggregate	9999	Diesel	0.006476974	0.007837138	0.009326842	0.039325319	0.107517293	19.12941762	0.001415512	0.001302271	0.000176667	0.000156132	620632.8872	62511.86144	33.47189248	59980131
Los Angeles (SC)	2022	CHE - Port Yard Tractor	Aggregate	175	Diesel	0.021081385	0.025508476	0.030357195	1.809466587	0.126069821	290.3162668	0.004805627	0.00442117	0.002683485	0.002369522	9418991.55	2694911.587	1123.644107	4.67E+08
Los Angeles (SC)	2022	CHE - Port Yard Tractor	Aggregate	300	Diesel	0.019008162	0.022999876	0.027371754	0.575363257	0.102921971	269.9944376	0.003848957	0.003541041	0.002495662	0.002203658	8759672.184	1971502.401	771.4201265	4.34E+08
Los Angeles (SC)	2022	CHE - Port Yard Tractor	Aggregate	600	Diesel	0.000154562	0.000187019	0.000222569	0.004406838	0.000944973	2.170951403	3.10154E-05	2.85341E-05	2.00669E-05	1.7719E-05	70434.1274	10908.65418	4.960901135	3490769
Los Angeles (SC)	2022	CHE - Rail Container Handling Equipment	Aggregate	175	Diesel	0.001730736	0.00209419	0.002492259	0.022566849	0.016634162	3.463819122	0.000254472	0.000234114	3.19728E-05	2.82712E-05	112379.7967	25095.25445	8.397095169	3697553
Los Angeles (SC)	2022	CHE - Rail Container Handling Equipment	Aggregate	300	Diesel	0.003948885	0.004778151	0.005686394	0.024277005	0.035946837	10.0060689	0.000417774	0.000384352	9.23926E-05	8.16682E-05	324635.8858	49159.39408	12.11665937	10637731
Los Angeles (SC)	2022	CHE - Rail Container Handling Equipment	Aggregate	600	Diesel	0.001039691	0.001258027	0.001497156	0.006808936	0.009775073	2.405727483	0.000144159	0.000132627	2.22114E-05	1.96356E-05	78052.63873	7326.830613	3.353379623	2538113
Los Angeles (SC)	2022	CHE - Rail Forklift	Aggregate	75	Diesel	4.48485E-05	5.42667E-05	6.45819E-05	0.000556029	0.000585017	0.08676963	2.20006E-05	2.02405E-05	8.00883E-07	7.08202E-07	2815.145101	2617.385548	2.045439495	163150.4
Los Angeles (SC)	2022	CHE - Rail Forklift	Aggregate	100	Diesel	0.000127676	0.000154488	0.000183854	0.002842725	0.00045455	0.439540818	1.89458E-05	1.74302E-05	4.05994E-06	3.58747E-06	14260.41776	9899.466153	4.117015167	814686.6
Los Angeles (SC)	2022	CHE - Rail Forklift	Aggregate	175	Diesel	0.000145072	0.000175537	0.000208904	0.003351825	0.000731461	0.513888619	1.37001E-05	1.26041E-05	4.7468E-06	4.19429E-06	16672.55028	6814.377974	2.399324792	1058811
Los Angeles (SC)	2022	CHE - Rail Forklift	Aggregate	300	Diesel	3.5331E-05	4.27506E-05	5.08767E-05	0.000260752	0.000339347	0.117856272	6.44123E-06	5.92593E-06	1.08858E-06	9.61927E-07	3823.716954	1026.492691	0.802185483	246358.2
Los Angeles (SC)	2022	CHE - Rail Other General Industrial Equipment	Aggregate	50	Diesel	0.000609747	0.000737794	0.000878035	0.004732348	0.003404759	0.430369356	9.29841E-05	8.55454E-05	3.96069E-06	3.51262E-06	13962.8598	10200.13553	2.825273242	476006.3
Los Angeles (SC)	2022	CHE - Rail Other General Industrial Equipment	Aggregate	175	Diesel	1.26812E-05	1.53442E-05	1.82609E-05	0.000209885	0.000168658	0.037275867	2.34103E-06	2.15375E-06	3.44253E-07	3.04241E-07	1209.37446	398.5615484	0.871229557	45834.58
Los Angeles (SC)	2022	CHE - Rail Other General Industrial Equipment	Aggregate	300	Diesel	0.000278567	0.000337066	0.000401137	0.001792445	0.002888728	0.700252503	3.81012E-05	3.50531E-05	6.46582E-06	5.71537E-06	22718.92128	4136.126328	3.036857812	949736.3
Los Angeles (SC)	2022	CHE - Rail RTG Crane	Aggregate	300	Diesel	0.008198711	0.00992044	0.011806144	0.052290145	0.071984837	21.74620342	0.000754412	0.000694059	0.000200808	0.00017749	705531.6207	255052.6155	53.48522278	68192688
Los Angeles (SC)	2022	CHE - Rail RTG Crane	Aggregate	600	Diesel	0.001192138	0.001442487	0.001716679	0.007602242	0.008949724	3.58491499	9.56609E-05	8.8008E-05	3.31086E-05	2.92596E-05	116308.6188	30904.51268	6.195282921	11285210
Los Angeles (SC)	2022	CHE - Rail Yard Tractor	Aggregate	175	Diesel	0.012993378	0.015721987	0.018710464	0.883301036	0.057296166	142.6695358	0.002341823	0.002154478	0.001318661	0.00116445	4628755.966	1448241.899	337.3412772	2.29E+08
Los Angeles (SC)	2022	CHE - Rail Yard Tractor	Aggregate	300	Diesel	0.005596046	0.006771216	0.008058306	0.137639423	0.025958488	66.54016278	0.000997444	0.000917648	0.000615029	0.000543092	2158822.301	534964.4391	141.3856824	1.07E+08
Los Angeles (SC)	2022	ConstMin - Bore/Drill Rigs	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Bore/Drill Rigs	Aggregate	50	Diesel	0.000196022	0.000237187	0.000282272	0.001627854	0.001609514	0.222638847	9.0365E-05	8.31358E-05	2.05253E-06	1.81715E-06	7223.272208	6315.673619	17.74363412	244436.5
Los Angeles (SC)	2022	ConstMin - Bore/Drill Rigs	Aggregate	75	Diesel	0.000123336	0.000149237	0.000177604	0.002219738	0.002258391	0.347060127	0.000111674	0.00010274	3.20504E-06	2.83266E-06	11259.9836	6175.496005	13.63458201	440850.7
Los Angeles (SC)	2022	ConstMin - Bore/Drill Rigs	Aggregate	100	Diesel	0.000297414	0.000359871	0.000428276	0.006568299	0.004233884	1.047721075	0.000172916	0.000159082	9.67778E-06	8.55136E-06	33992.15644	15471.81083	40.53019582	1318901
Los Angeles (SC)	2022	ConstMin - Bore/Drill Rigs	Aggregate	175	Diesel	0.000349675	0.000423106	0.000503531	0.008998108	0.003976934	1.624931972	0.00017728	0.000163098	1.50128E-05	1.32625E-05	52719.1283	13539.40801	42.77149698	2020588
Los Angeles (SC)	2022	ConstMin - Bore/Drill Rigs	Aggregate	300	Diesel	0.000448809	0.000543059	0.000646285	0.004744923	0.005607594	2.331809563	0.000183144	0.000168493	2.15453E-05	1.90319E-05	75652.99323	14079.84926	43.51859736	2941413
Los Angeles (SC)	2022	ConstMin - Bore/Drill Rigs	Aggregate	600	Diesel	0.000632367	0.000765164	0.000910609	0.007349399	0.007107437	3.927390053	0.000237615	0.000218605	3.62917E-05	3.20548E-05	127419.845	12172.40957	36.04759352	4967478
Los Angeles (SC)	2022	ConstMin - Bore/Drill Rigs	Aggregate	750	Diesel	0.000267558	0.000323745	0.000385283	0.003851466	0.002574903	2.125753438	0.000100855	9.27866E-05	1.96456E-05	1.73501E-05	68967.7292	4109.103011	7.284228743	2625509
Los Angeles (SC)	2022	ConstMin - Bore/Drill Rigs	Aggregate	9999	Diesel	0.000317127	0.000383724	0.000456663	0.002280865	0.008877977	1.216641467	0.000203875	0.000187565	1.12389E-05	9.93006E-06	39472.5925	817.3827113	1.120650576	1521439
Los Angeles (SC)	2022	ConstMin - Cranes	Aggregate	25	Diesel	7.08352E-06	8.57106E-06	1.02003E-05	3.99273E-05	3.51483E-05	0.004301273	2.69991E-06	2.48392E-06	3.95549E-08	3.51064E-08	139.5500519	337.097097	0.703722276	8427.427
Los Angeles (SC)	2022	ConstMin - Cranes	Aggregate	50	Diesel	0.000207001	0.000250471	0.000298081	0.000901202	0.000718327	0.06968766	7.43359E-05	6.83891E-05	6.38087E-07	5.68781E-07	2260.93939	3279.327721	7.506370945	135203.4
Los Angeles (SC)	2022	ConstMin - Cranes	Aggregate	75	Diesel	5.76636E-05	6.9773E-05	8.30356E-05	0.000240983	0.000525889	0.028110314	4.89905E-05	4.50712E-05	2.58164E-07	2.29433E-07	912.0081716	874.6303057	2.34574092	60860.76
Los Angeles (SC)	2022	ConstMin - Cranes	Aggregate	100	Diesel	0.001417369	0.001715017	0.002041011	0.011920111	0.015371371	1.574798108	0.001020914	0.000939241	1.45173E-05	1.28533E-05	51092.59028	39145.3334	88.19985861	3439404
Los Angeles (SC)	2022	ConstMin - Cranes	Aggregate	175	Diesel	0.003441949	0.004164758	0.004956406	0.031683497	0.041920406	4.822207973	0.002253042	0.002072799	4.44804E-05	3.93582E-05	156451.227	71689.13731	156.9300676	10486109
Los Angeles (SC)	2022	ConstMin - Cranes	Aggregate	300	Diesel	0.004286367	0.005186504	0.006172368	0.028449244	0.058899935	8.314988947	0.002439991	0.002244792	7.67476E-05	6.78658E-05	269770.6591	82158.17267	174.2885504	18123833
Los Angeles (SC)	2022	ConstMin - Cranes	Aggregate	600	Diesel	0.005363382	0.006489692	0.00772327	0.052176721	0.071535786	14.49763986	0.002868491	0.002639012	0.000133877	0.000118328	470359.9588	86061.3176	173.5848281	31588257
Los Angeles (SC)	2022	ConstMin - Cranes	Aggregate	750	Diesel	0.000153078	0.000185224	0.000220432	0.001445517	0.001893581	0.290933667	9.28395E-05	8.54124E-05	2.68523E-06	2.37456E-06	9439.022408	1001.912596	2.34574092	635235.8
Los Angeles (SC)	2022	ConstMin - Cranes	Aggregate	9999	Diesel	0.000849395	0.001027768	0.001223128	0.008640121	0.012022559	0.800893914	0.000552906	0.000508673	7.37918E-06	6.53679E-06	25984.121	1860.465139	3.753185473	1745610
Los Angeles (SC)	2022	ConstMin - Crawler Tractors	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Crawler Tractors	Aggregate	50	Diesel	0.000613396	0.00074221	0.000883291	0.002752633	0.002103075	0.225703123	0.000210644	0.000193793	2.06834E-06	1.84216E-06	7322.68925	7104.759396	20.81908657	298686.7
Los Angeles (SC)	2022	ConstMin - Crawler Tractors	Aggregate	75	Diesel	7.41707E-05	8.97465E-05	0.000106806	0.000290937	0.000710742	0.024291804	5.21103E-05	4.79414E-05	2.22365E-07	1.98266E-07	788.120844	507.0411405	2.498290388	35464.44

Los Angeles (SC)	2022	ConstMin - Crawler Tractors	Aggregate	100	Diesel	0.009193795	0.011124491	0.013239064	0.073149314	0.094621298	9.943753475	0.007572577	0.006966771	9.16591E-05	8.11596E-05	322614.1304	166072.3834	355.1736168	14510137
Los Angeles (SC)	2022	ConstMin - Crawler Tractors	Aggregate	175	Diesel	0.006651019	0.008047733	0.009577467	0.067343417	0.079080976	10.87586806	0.004419638	0.004066067	0.000100353	8.87674E-05	352855.5615	106568.0614	235.0474873	15899232
Los Angeles (SC)	2022	ConstMin - Crawler Tractors	Aggregate	300	Diesel	0.006327835	0.00765668	0.009112082	0.042392181	0.090950768	11.40936301	0.003659337	0.00336659	0.000105295	9.31217E-05	370164.2176	81293.53505	182.1670075	16704134
Los Angeles (SC)	2022	ConstMin - Crawler Tractors	Aggregate	600	Diesel	0.013786774	0.016681997	0.019852955	0.116957075	0.179929863	39.89652134	0.006968171	0.006410718	0.00036845	0.00032563	1294398.697	151368.1903	318.7402153	58439984
Los Angeles (SC)	2022	ConstMin - Crawler Tractors	Aggregate	750	Diesel	0.000276719	0.00033483	0.000398476	0.002072298	0.004220215	0.409753961	0.00015094	0.000138865	3.78008E-06	3.34436E-06	13294.01599	967.4687428	2.290099522	603221.4
Los Angeles (SC)	2022	ConstMin - Crawler Tractors	Aggregate	9999	Diesel	0.001280378	0.001549257	0.001843744	0.006923682	0.026203389	2.300915307	0.000709721	0.000652943	2.12347E-05	1.87798E-05	74650.66314	3457.9635	6.24572597	3362348
Los Angeles (SC)	2022	ConstMin - Excavators	Aggregate	25	Diesel	1.54555E-05	1.87011E-05	2.22559E-05	5.25162E-05	3.56713E-05	0.002763324	4.97151E-06	4.57379E-06	2.50846E-08	2.25539E-08	89.65299221	163.4736177	0.625821509	4086.84
Los Angeles (SC)	2022	ConstMin - Excavators	Aggregate	50	Diesel	0.006051332	0.007322111	0.008713918	0.065585014	0.056800531	9.024731192	0.00244725	0.00225147	8.32566E-05	7.36586E-05	292797.4646	372468.2039	509.0014941	13338709
Los Angeles (SC)	2022	ConstMin - Excavators	Aggregate	75	Diesel	6.49364E-06	7.8573E-06	9.35084E-06	2.54715E-05	6.22254E-05	0.002126746	4.56225E-06	4.19727E-06	1.9468E-08	1.73582E-08	68.99993976	66.0090264	0.20860717	3498.478
Los Angeles (SC)	2022	ConstMin - Excavators	Aggregate	100	Diesel	0.004586893	0.005550141	0.006605126	0.077635795	0.057721984	11.71311	0.003029579	0.002787213	0.000108156	9.56008E-05	380018.9542	237525.2602	366.7314043	19329895
Los Angeles (SC)	2022	ConstMin - Excavators	Aggregate	175	Diesel	0.007461894	0.009028891	0.010745127	0.144035677	0.079184516	24.7223962	0.003846393	0.003538681	0.000228347	0.000201781	802090.9179	278005.7126	469.9919533	40597249
Los Angeles (SC)	2022	ConstMin - Excavators	Aggregate	300	Diesel	0.007504264	0.009080159	0.01080614	0.066607956	0.085548794	31.56303753	0.002724372	0.002506423	0.000291591	0.000257613	1024027.992	236932.3704	406.5753737	51794982
Los Angeles (SC)	2022	ConstMin - Excavators	Aggregate	600	Diesel	0.011207087	0.013560575	0.016138205	0.112192145	0.109047588	56.13381493	0.003666757	0.003373416	0.000518649	0.000458157	1821199.805	272666.6071	424.098376	92511276
Los Angeles (SC)	2022	ConstMin - Excavators	Aggregate	750	Diesel	0.000166152	0.000201043	0.000239258	0.001484764	0.00236713	0.447028085	7.90795E-05	7.27531E-05	4.12801E-06	3.64858E-06	14503.33389	1125.966245	2.294678867	722043.9
Los Angeles (SC)	2022	ConstMin - Excavators	Aggregate	9999	Diesel	0.000271316	0.000328292	0.000390695	0.002918796	0.008093656	1.558501433	0.000112261	0.00010328	1.4401E-05	1.27203E-05	50563.86261	2123.965532	3.129107545	2557045
Los Angeles (SC)	2022	ConstMin - Graders	Aggregate	25	Diesel	4.85637E-06	5.87621E-06	6.99317E-06	2.28773E-05	1.79968E-05	0.001735045	2.16879E-06	1.99529E-06	1.58957E-08	1.41612E-08	56.29162018	95.7872322	0.419259876	2394.681
Los Angeles (SC)	2022	ConstMin - Graders	Aggregate	50	Diesel	0.000183552	0.000222097	0.000264314	0.000781233	0.000559162	0.057960955	6.21912E-05	5.72159E-05	5.30371E-07	4.7307E-07	1880.479361	2142.520916	6.079268199	80002.65
Los Angeles (SC)	2022	ConstMin - Graders	Aggregate	75	Diesel	5.87194E-05	7.10505E-05	8.45559E-05	0.000239054	0.000554616	0.025002447	4.65621E-05	4.28371E-05	2.29398E-07	2.04067E-07	811.1768655	533.7743515	1.677039503	37447.38
Los Angeles (SC)	2022	ConstMin - Graders	Aggregate	100	Diesel	0.001842463	0.00222938	0.002653146	0.011260865	0.017530448	1.327939155	0.001393441	0.001281966	1.22222E-05	1.08385E-05	43083.52342	23068.91807	61.63120175	2067666
Los Angeles (SC)	2022	ConstMin - Graders	Aggregate	175	Diesel	0.010203803	0.012346602	0.014693477	0.098609522	0.115761534	15.09959957	0.006425898	0.005911826	0.000139297	0.000123241	489889.8789	155476.0881	329.5382624	23091941
Los Angeles (SC)	2022	ConstMin - Graders	Aggregate	300	Diesel	0.015217274	0.018412901	0.021912874	0.078501391	0.216951226	31.84480083	0.007179672	0.006605298	0.000293964	0.000259913	1033169.492	225712.7945	297.255252	48864148
Los Angeles (SC)	2022	ConstMin - Graders	Aggregate	600	Diesel	0.000728184	0.000881102	0.001048585	0.002938165	0.011536041	1.368686893	0.00035448	0.000326122	1.26323E-05	1.1171E-05	44405.5389	5944.076694	7.756307703	2092873
Los Angeles (SC)	2022	ConstMin - Graders	Aggregate	9999	Diesel	0.000794364	0.00096118	0.001143884	0.004035816	0.013265929	1.080835773	0.000406756	0.000374216	9.96903E-06	8.82164E-06	35066.52632	916.6838122	1.257779627	1658576
Los Angeles (SC)	2022	ConstMin - Off-Highway Tractors	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Off-Highway Tractors	Aggregate	50	Diesel	0.004086232	0.004944341	0.005884174	0.032703276	0.027258061	3.742910583	0.001648908	0.001516995	3.44825E-05	3.05491E-05	121434.6118	128751.3736	195.3332512	4860131
Los Angeles (SC)	2022	ConstMin - Off-Highway Tractors	Aggregate	75	Diesel	0.001093923	0.001323647	0.00157525	0.015016557	0.013056712	2.151028564	0.000713125	0.000656075	1.98545E-05	1.75564E-05	69787.75283	43903.56474	72.04071435	3092972
Los Angeles (SC)	2022	ConstMin - Off-Highway Tractors	Aggregate	100	Diesel	0.001462256	0.001769329	0.002105648	0.018150043	0.017198543	2.606708069	0.001237246	0.001138266	2.40564E-05	2.12756E-05	84571.77254	47525.00573	69.77657762	3748404
Los Angeles (SC)	2022	ConstMin - Off-Highway Tractors	Aggregate	175	Diesel	0.001491847	0.001805135	0.002148259	0.024576904	0.017429427	4.072360507	0.00084087	0.00077736	3.76062E-05	3.32381E-05	132123.2517	37095.19925	54.13345107	5864969
Los Angeles (SC)	2022	ConstMin - Off-Highway Tractors	Aggregate	300	Diesel	0.000993606	0.001202263	0.001430793	0.007692412	0.011628402	3.43114806	0.00041075	0.00037789	3.16929E-05	2.80046E-05	111319.8201	23142.94067	35.60869595	4949538
Los Angeles (SC)	2022	ConstMin - Off-Highway Tractors	Aggregate	600	Diesel	0.00241699	0.002924558	0.003480465	0.022996966	0.02272532	11.47474887	0.000788655	0.000725563	0.000106017	9.36554E-05	372285.5898	46328.67462	67.30661027	16572706
Los Angeles (SC)	2022	ConstMin - Off-Highway Tractors	Aggregate	750	Diesel	0.000185132	0.00022401	0.000266591	0.001025128	0.001662636	0.503238593	8.38759E-05	7.71658E-05	4.64714E-06	4.10737E-06	16327.02192	1156.359355	1.6466449	736734.7
Los Angeles (SC)	2022	ConstMin - Off-Highway Tractors	Aggregate	9999	Diesel	0.000253775	0.000307068	0.000365437	0.001538381	0.004326011	0.6331482	0.000115615	0.000106366	5.84616E-06	5.16767E-06	20541.79607	557.488416	1.029153062	912372.9
Los Angeles (SC)	2022	ConstMin - Off-Highway Trucks	Aggregate	25	Diesel	4.8279E-05	5.84176E-05	6.95218E-05	0.000212245	0.000139167	0.014746079	1.49766E-05	1.37784E-05	1.34886E-07	1.20356E-07	478.4202804	871.9965583	0.611817466	21799.91
Los Angeles (SC)	2022	ConstMin - Off-Highway Trucks	Aggregate	50	Diesel	0.000358003	0.000433183	0.000515524	0.003192514	0.00255869	0.346247732	0.000153753	0.000141453	3.19049E-06	2.82603E-06	11233.62635	17830.15137	11.01271439	514315.8
Los Angeles (SC)	2022	ConstMin - Off-Highway Trucks	Aggregate	75	Diesel	5.3605E-05	6.4862E-05	7.71912E-05	0.000798122	0.000453516	0.103707529	1.84136E-05	1.69405E-05	9.57219E-07	8.46447E-07	3364.676557	2391.642177	1.631513243	170485.9
Los Angeles (SC)	2022	ConstMin - Off-Highway Trucks	Aggregate	100	Diesel	0.000131627	0.000159269	0.000189544	0.001864432	0.001433956	0.255875863	9.14028E-05	8.40906E-05	2.36175E-06	2.08842E-06	8301.610574	4801.921736	3.670904797	419369.9
Los Angeles (SC)	2022	ConstMin - Off-Highway Trucks	Aggregate	175	Diesel	0.003309222	0.004004159	0.00476528	0.05365975	0.03017881	8.564558195	0.001477562	0.001359357	7.90843E-05	6.99028E-05	277867.6585	89312.20319	63.62901648	14094869
Los Angeles (SC)	2022	ConstMin - Off-Highway Trucks	Aggregate	300	Diesel	0.005952604	0.00720265	0.008571749	0.043433845	0.054651821	17.46174399	0.002159785	0.001987002	0.000161264	0.00014252	566527.0532	136617.6088	107.2719957	28806582
Los Angeles (SC)	2022	ConstMin - Off-Highway Trucks	Aggregate	600	Diesel	0.022791962	0.027578274	0.032820425	0.174504945	0.210663128	74.68614399	0.007624768	0.007014787	0.000689827	0.000609578	2423109.69	326191.7107	239.6285076	1.23E+08
Los Angeles (SC)	2022	ConstMin - Off-Highway Trucks	Aggregate	750	Diesel	0.010482675	0.012684037	0.015095052	0.084513671	0.108155934	25.42087961	0.004215757	0.003878496	0.000234714	0.000207482	824752.4427	63078.92175	51.59660631	41824449
Los Angeles (SC)	2022	ConstMin - Off-Highway Trucks	Aggregate	9999	Diesel	0.014661533	0.017740455	0.021112607	0.105113585	0.299055765	44.90302469	0.006216522	0.0057192	0.000414711	0.000366492	1456829.184	57992.77992	40.99177023	73528600
Los Angeles (SC)	2022	ConstMin - Other Construction Equipment	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Other Construction Equipment	Aggregate	50	Diesel	0.002598069	0.003143664	0.00374122	0.017663467	0.016206759	2.023378688	0.001188858	0.001093749	1.86292E-05	1.65145E-05	65646.29317	71728.72153	150.8008412	2735434
Los Angeles (SC)	2022	ConstMin - Other Construction Equipment	Aggregate	75	Diesel	0.000450479	0.00054508	0.00064869	0.00232977	0.004519182	0.263886538	0.000354551	0.000326187	2.42625E-06	2.15381E-06	8561.5081	5510.174727	18.26658911	403625.3
Los Angeles (SC)	2022	ConstMin - Other Construction Equipment	Aggregate	100	Diesel	0.003903695	0.00472347	0.00562132	0.041633765	0.044571391	6.073989703	0.003099571	0.002851605	5.60399E-05	4.95751E-05	197063.9066	111800.7172	247.6137634	9180561
Los Angeles (SC)	2022	ConstMin - Other Construction Equipment	Aggregate	175	Diesel	0.001609363	0.001947329	0.002317482	0.020725202	0.019730743	3.446705907	0.001031675	0.000949141	3.18182E-05	2.81316E-05	111824.5773	34321.85498	83.01149938	5225303
Los Angeles (SC)	2022	ConstMin - Other Construction Equipment	Aggregate	300	Diesel	0.001668043	0.002018332	0.002401981	0.011948731	0.02316644	4.527348858	0.000893524	0.000822042	4.18075E-05	3.69516E-05	146884.8477	31134.13335	76.51671215	6818557
Los Angeles (SC)	2022	ConstMin - Other Construction Equipment	Aggregate	600	Diesel	0.00488573	0.005911733	0.007035451	0.045731102	0.062454201	17.43738949	0.002302425	0.002118231	0.000161071	0.000142322	565736.8982	69147.75439	154.8600832	26349040
Los Angeles (SC)	2022	ConstMin - Other Construction Equipment	Aggregate	750	Diesel	0.001015204	0.001228397	0.001461894	0.007165559	0.014170845	3.450227089	0.000465925	0.000428651	3.18686E-05	2.81603E-05	111938.8182	8515.429494	17.0488165	5229524
Los Angeles (SC)	2022	ConstMin - Other Construction Equipment	Aggregate	9999	Diesel	0.000223929	0.000270954	0.000322457	0.002091115	0.00609026	1.116038756	0.00011077	0.000101908	1.03116E-05	9.10896E-06	36208.64835	1836.724909	3.856279922	1686473
Los Angeles (SC)	2022	ConstMin - Pavers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Pavers	Aggregate	50	Diesel	0.000378917	0.00045849	0.000545641	0.00214817	0.001856918	0.247551904	0.000138473	0.000127395	2.27737E-06	2.02049E-06	8031.548898	8668.167471	24.42914185	336160.3
Los Angeles (SC)	2022	ConstMin - Pavers	Aggregate	75	Diesel	0.000622417	0.000753124	0.00089628	0.002990726	0.005626763	0.37814614	0.000542394	0.000499002	3.47748E-06	3.08638E-06	12268.53505	7984.230128	23.61483712	576315.7
Los Angeles (SC)	2022	ConstMin - Pavers	Aggregate	100	Diesel	0.000759852	0.000919421	0.001094187	0.012987887	0.010832364	2.010132441	0.000570175	0.000524561	1.85619E-05	1.64064E-05	65216.53329	37551.43914	94.45934847	3047853
Los Angeles (SC)	2022	ConstMin - Pavers	Aggregate	175	Diesel	0.001117683	0.001352397	0.001609464	0.018548492	0.013657541	3.268247191	0.000656171	0.000603678	3.0183E-05	2.6675E-05	106034.6808	31195.54266	80.81974427	4925613
Los Angeles (SC)	2022	ConstMin - Pavers	Aggregate	300	Diesel	0.000597423	0.000722882	0.000860289	0.004898021	0.00962572	2.552279161	0.000294372	0.000270823	2.35792E-05	2.08314E-05	82805.88655	17492.61032	38.88305077	3853825
Los Angeles (SC)	2022	ConstMin - Pavers	Aggregate	600	Diesel	8.01828E-05	9.70212E-05	0.000115463	0.000855339	0.001118953	0.464167	3.24118E-05	2.98188E-05	4.28905E-06	3.78847E-06	15059.38712	1860.421199	4.275099823	700961.4
Los Angeles (SC)	2022	ConstMin - Pavers	Aggregate	750	Diesel	7.84223E-06	9.4891E-06	1.12928E-05	0.00016966	4.6967E-05	0.095744426	1.59475E-06	1.46717E-06	8.84969E-07	7.81453E-07	3106.322473	192.7861467	0.407152364	144589.6
Los Angeles (SC)	2022	ConstMin - Paving Equipment	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Paving Equipment	Aggregate	50	Diesel	0.000249959	0.00030245	0.000359941	0.00224628	0.002030162	0.308214888	9.9633E-05	9.16624E-05	2.8421E-06	2.51561E-06	9999.692597	14172.41813	30.08082237	492433.8
Los Angeles (SC)	2022	ConstMin - Paving Equipment	Aggregate	75	Diesel	3.88684E-05	4.70308E-05	5.59705E-05	0.000350185	0.000496744	0.047712457	3.64781E-05	3.35599E-05	4.39959E-07	3.89423E-07	1547.978119	1221.491977	3.048731997	83605.73
Los Angeles (SC)	2022	ConstMin - Paving Equipment	Aggregate	100	Diesel	0.000521241	0.000630702	0.000750587	0.008346188	0.0065923	1.281560471	0.000349593	0.000321625	1.1833E-05	1.04599E-05	41578.81811	25401.2751	55.08042475	2260981
Los Angeles (SC)	2022	ConstMin - Paving Equipment	Aggregate	175	Diesel	0.0005257	0.000636097	0.000757008	0.008165876	0.006032893	1.389236005	0.000319327	0.000293781	1.28284E-05	1.13388E-05	45072.23222	16932.09379	36.78803277	2458587
Los Angeles (SC)	2022	ConstMin - Paving Equipment	Aggregate	300	Diesel	0.000288009	0.00034849	0.000414732	0.002045978	0.003965814	0.932376785	0.000151587	0.00013946	8.61165E-06	7.60993E-06	30249.93797	7133.921782	15.24365999	1646554
Los Angeles (SC)	2022	ConstMin - Paving Equipment	Aggregate	600	Diesel	0.000263083	0.000318331	0.00037884	0.002076388	0.003531358	0.998574863	0.000113667	0.000104574	9.22443E-06	8.15023E-06	32397.66168	4444.828439	9.552693591	1766646
Los Angeles (SC)	2022	ConstMin - Paving Equipment	Aggregate	750	Diesel	3.84043E-05	4.64692E-05	5.53022E-05	0.000368993	0.000439824	0.199316063	1.10689E-05	1.01834E-05	1.84162E-06	1.62679E-06	6466.590168	549.7990881	1.016243999	351727.5
Los Angeles (SC)	2022	ConstMin - Paving Equipment	Aggregate	9999	Diesel	1.42814E-05	1.72805E-05	2.05652E-05	0.000168959	0.000401006	0.09045265	6.60477E-06	6.07638E-06	8.35851E-07	7.38262E-07	2934.636621	189.4577939	0.4064976	159715.7
Los Angeles (SC)	2022	ConstMin - Rollers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Rollers	Aggregate	50	Diesel	0.005251978	0.006354894	0.007562849	0.037967311	0.035613463	5.076095084	0.002154584	0.001982217	4.67735E-05	4.14304E-05	164688.3147	213769.2814	617.3209126	7633421
Los Angeles (SC)	2022	ConstMin - Rollers	Aggregate	75	Diesel	0.000171766	0.000207837	0.000247343	0.000673935	0.001545858	0.056320054	0.00011177	0.000102828	5.15554E-07	4.59677E-07	1827.242138	1349.139761	5.86329225	93640.82
Los Angeles (SC)	2022	ConstMin - Rollers	Aggregate	100	Diesel	0.003685373	0.004459302	0.005306938	0.051355207	0.046708483	7.886851706	0.002672474	0.002458676	7.28073E-05	6.43714E-05	255880.2178	151062.27	455.2427626	13186839
Los Angeles (SC)	2022	ConstMin - Rollers	Aggregate	175	Diesel	0.002111749	0.002555216	0.003040918	0.045304411	0.026655331	8.209337482	0.001223719	0.001125821	7.5836E-05	6.70035E-05	266342.9136	95537.27497	266.3609908	13736636
Los Angeles (SC)	2022	ConstMin - Rollers	Aggregate	300	Diesel	0.00047016	0.000568893	0.00067703	0.003978942	0.006633543	1.359624359	0.0002494	0.000229448	1.25563E-05	1.10971E-05	44111.51497	10510.37284	34.13273703	2272966
Los Angeles (SC)	2022	ConstMin - Rollers	Aggregate	600	Diesel	0.000188404	0.000227968	0.000271301	0.002093487	0.002604257	0.796892286	8.81237E-05	8.10738E-05	7.36201E-06	6.50413E-06	25854.2926	3794.335973	12.35479438	1325218
Los Angeles (SC)	2022	ConstMin - Rough Terrain Forklifts	Aggregate	25	Diesel	1.4549E-06	1.76043E-06	2.09506E-06	1.80899E-05	2.25606E-05	0.002656903	1.26239E-06	1.1614E-06	2.45207E-08	2.16853E-08	86.20029709	149.0685375	0.483312357	3726.713
Los Angeles (SC)	2022	ConstMin - Rough Terrain Forklifts	Aggregate	50	Diesel	0.000285586	0.00034556	0.000411245	0.00187685	0.001756805	0.255911508	0.000103317	9.50514E-05	2.35746E-06	2.08872E-06	8302.767049	7522.99219	27.54880435	359353.2
Los Angeles (SC)	2022	ConstMin - Rough Terrain Forklifts	Aggregate	75	Diesel	1.95077E-05	2.36043E-05	2.80911E-05	7.91096E-05	0.000194546	0.007054825	1.32688E-05	1.22073E-05	6.46401E-08	5.75805E-08	228.8860252	165.9077611	0.724968535	11006.37
Los Angeles (SC)	2022	ConstMin - Rough Terrain Forklifts	Aggregate	100	Diesel	0.004105183	0.004967271	0.005911463	0.123023751	0.073803042	20.21781689	0.001982413	0.00182382	0.000186801	0.000165015	655944.8031	327439.5325	1158.983032	31528651
Los Angeles (SC)	2022	ConstMin - Rough Terrain Forklifts	Aggregate	175	Diesel	0.001754102	0.002122463	0.002525906	0.02529841	0.018841658	4.446841364	0.001257763	0.001157142	4.10606E-05	3.62945E-05	144272.8707	55355.22112	202.0245652	6939528
Los Angeles (SC)	2022	ConstMin - Rough Terrain Forklifts	Aggregate	300	Diesel	5.95166E-05	7.20151E-05	8.57039E-05	0.000610253	0.000968119	0.32637305	2.23024E-05	2.05182E-05	3.0157E-06	2.66381E-06	10588.81417	2421.811628	9.666247139	509210.6
Los Angeles (SC)	2022	ConstMin - Rough Terrain Forklifts	Aggregate	600	Diesel	1.31423E-05	1.59021E-05	1.89248E-05	0.000217552	0.000136458	0.121340464	2.06561E-06	1.90036E-06	1.12146E-06	9.90365E-07	3936.757727	494.6867021	1.933249428	190555.1
Los Angeles (SC)	2022	ConstMin - Rough Terrain Forklifts	Aggregate	750	Diesel	3.56865E-06	4.31806E-06	5.13885E-06	3.85554E-05	5.2965E-05	0.020879206	3.75109E-07	3.451E-07	1.92932E-07	1.70413E-07	677.4028394	52.17398811	0.241656178	32608.74
Los Angeles (SC)	2022	ConstMin - Rubber Tired Dozers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Rubber Tired Dozers	Aggregate	50	Diesel	0.000401035	0.000485252	0.00057749	0.002406836	0.001752722	0.225492627	0.000142668	0.000131254	2.07276E-06	1.84044E-06	7315.859953	7759.963377	8.16832542	321873.6
Los Angeles (SC)	2022	ConstMin - Rubber Tired Dozers	Aggregate	75	Diesel	0.000314657	0.000380734	0.000453105	0.001924711	0.003073194	0.226693888	0.000231025	0.000212543	2.08646E-06	1.85025E-06	7354.833538	5225.805176	6.972960725	357621.6
Los Angeles (SC)	2022	ConstMin - Rubber Tired Dozers	Aggregate	100	Diesel	0.000773575	0.000936026	0.001113948	0.005698101	0.00783445	0.719223932	0.000598863	0.000550954	6.62637E-06	5.87021E-06	23334.42838	13407.9386	15.53974104	1133283
Los Angeles (SC)	2022	ConstMin - Rubber Tired Dozers	Aggregate	175	Diesel	0.001020246	0.001234498	0.001469155	0.00729852	0.011232779	1.012764399	0.000717185	0.000659811	9.3329E-06	8.26605E-06	32858.02555	11272.28161	14.34437635	1606559
Los Angeles (SC)	2022	ConstMin - Rubber Tired Dozers	Aggregate	300	Diesel	0.000912669	0.001104329	0.001314243	0.006257247	0.012197902	1.095020344	0.000558306	0.000513642	1.00966E-05	8.93741E-06	35526.72911	7828.466442	11.15673716	1731889
Los Angeles (SC)	2022	ConstMin - Rubber Tired Dozers	Aggregate	600	Diesel	0.008336147	0.010086738	0.012004051	0.080091838	0.104238589	11.39370317	0.004676219	0.004302121	0.00010509	9.29939E-05	369656.1513	48639.45136	66.94042296	17952407
Los Angeles (SC)	2022	ConstMin - Rubber Tired Dozers	Aggregate	750	Diesel	0.000127699	0.000154515	0.000183886	0.000671663	0.002231365	0.325752806	6.25799E-05	5.75735E-05	3.00792E-06	2.65875E-06	10568.69103	794.7265775	0.796909797	516931.9
Los Angeles (SC)	2022	ConstMin - Rubber Tired Loaders	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Rubber Tired Loaders	Aggregate	50	Diesel	0.001172034	0.001418161	0.001687729	0.007465492	0.005713232	0.706322175	0.000426344	0.000392236	6.49514E-06	5.76491E-06	22915.8451	26410.76017	30.73299419	1097832
Los Angeles (SC)	2022	ConstMin - Rubber Tired Loaders	Aggregate	100	Diesel	0.011975983	0.01449094	0.017245416	0.126468707	0.12408256	17.19022487	0.008775721	0.008073663	0.000158573	0.000140304	557717.9142	349997.2498	381.8782184	30084415
Los Angeles (SC)	2022	ConstMin - Rubber Tired Loaders	Aggregate	175	Diesel	0.018868236	0.022830566	0.02717026	0.255541968	0.194928785	40.76256342	0.010514321	0.009673176	0.000376304	0.000332699	1322496.478	472179.4544	500.8647432	70846022
Los Angeles (SC)	2022	ConstMin - Rubber Tired Loaders	Aggregate	300	Diesel	0.020881559	0.025266686	0.030069445	0.138593117	0.260198806	59.0913531	0.008773985	0.008072066	0.000545702	0.000482296	1917153.874	492351.0526	461.8255344	1.03E+08
Los Angeles (SC)	2022	ConstMin - Rubber Tired Loaders	Aggregate	600	Diesel	0.029293775	0.035445468	0.042183036	0.202778304	0.330167999	76.14720295	0.012396026	0.011404344	0.00070314	0.000621503	2470512.139	402293.1073	413.2341787	1.33E+08
Los Angeles (SC)	2022	ConstMin - Rubber Tired Loaders	Aggregate	750	Diesel	0.002058503	0.002490789	0.002964245	0.020687108	0.018209605	7.406419496	0.000643127	0.000591677	6.84143E-05	6.04502E-05	240293.1238	20033.30335	19.93491515	12944900
Los Angeles (SC)	2022	ConstMin - Rubber Tired Loaders	Aggregate	9999	Diesel	0.001683373	0.002036882	0.002424058	0.011406649	0.03772436	5.285917661	0.000791987	0.000728628	4.88204E-05	4.31429E-05	171495.7771	9549.461749	8.098559281	9148659
Los Angeles (SC)	2022	ConstMin - Scrapers	Aggregate	25	Diesel	3.35776E-07	4.06289E-07	4.83518E-07	9.46012E-06	8.6797E-06	0.001805065	3.02594E-08	2.78386E-08	1.66786E-08	1.47327E-08	58.56335263	84.43520914	0.205317872	2110.88
Los Angeles (SC)	2022	ConstMin - Scrapers	Aggregate	50	Diesel	6.90852E-05	8.35931E-05	9.94827E-05	0.000235552	0.000167153	0.014366935	2.32879E-05	2.14248E-05	1.30757E-07	1.17261E-07	466.1193715	441.1739677	1.231907234	17086.64
Los Angeles (SC)	2022	ConstMin - Scrapers	Aggregate	75	Diesel	0.000201125	0.000243361	0.00028962	0.001052437	0.001868814	0.126784245	0.000161524	0.000148602	1.16615E-06	1.0348E-06	4113.375203	2429.388601	5.543582555	164718
Los Angeles (SC)	2022	ConstMin - Scrapers	Aggregate	100	Diesel	0.000489684	0.000592517	0.000705145	0.004297319	0.006183267	0.571408703	0.000459604	0.000422835	5.26827E-06	4.66376E-06	18538.72607	8195.609758	13.55097958	739105.5
Los Angeles (SC)	2022	ConstMin - Scrapers	Aggregate	175	Diesel	0.004752809	0.005750899	0.006844045	0.049460799	0.056457164	7.708796189	0.003012465	0.002771468	7.11291E-05	6.29182E-05	250103.4026	59699.21099	133.6619349	9964984
Los Angeles (SC)	2022	ConstMin - Scrapers	Aggregate	300	Diesel	0.004828333	0.005842283	0.0069528	0.030392477	0.062718799	9.08573723	0.002734498	0.002515738	8.38573E-05	7.41566E-05	294776.7383	53032.34761	130.5821669	11844728
Los Angeles (SC)	2022	ConstMin - Scrapers	Aggregate	600	Diesel	0.043043156	0.052082218	0.061982144	0.385982277	0.56425861	112.5905865	0.021527856	0.019805628	0.001039665	0.000918949	3652877.582	346083.9734	720.6657322	1.46E+08
Los Angeles (SC)	2022	ConstMin - Scrapers	Aggregate	750	Diesel	0.001856932	0.002246887	0.002673981	0.020851788	0.030850143	1.729922236	0.001249135	0.001149204	1.59383E-05	1.41194E-05	56125.42179	3598.816247	9.855257876	2239537
Los Angeles (SC)	2022	ConstMin - Scrapers	Aggregate	9999	Diesel	0.002038274	0.002466311	0.002935114	0.024766922	0.033816299	2.601806701	0.001258804	0.0011581	2.39938E-05	2.12356E-05	84412.75304	2118.854665	5.338264683	3384163
Los Angeles (SC)	2022	ConstMin - Skid Steer Loaders	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Skid Steer Loaders	Aggregate	50	Diesel	0.001964731	0.002377324	0.002829212	0.023815481	0.022360163	3.841963227	0.000670874	0.000617204	3.54619E-05	3.13576E-05	124648.2657	134624.1737	427.5717884	5866176
Los Angeles (SC)	2022	ConstMin - Skid Steer Loaders	Aggregate	75	Diesel	0.005141487	0.0062212	0.007403742	0.124440782	0.08282225	20.12380499	0.003028213	0.002785956	0.0001859	0.000164248	652894.6906	485436.1672	1359.2416	34253162
Los Angeles (SC)	2022	ConstMin - Skid Steer Loaders	Aggregate	100	Diesel	9.87994E-05	0.000119547	0.000142271	0.001913264	0.001760321	0.293196613	0.000115084	0.000105878	2.70778E-06	2.39303E-06	9512.441212	6662.956663	20.5624509	503275.7
Los Angeles (SC)	2022	ConstMin - Skid Steer Loaders	Aggregate	175	Diesel	3.37605E-05	4.08502E-05	4.86151E-05	0.000749158	0.00041185	0.137863926	1.86722E-05	1.71784E-05	1.27361E-06	1.12523E-06	4472.84324	1545.447553	5.723568808	235269.9
Los Angeles (SC)	2022	ConstMin - Skid Steer Loaders	Aggregate	300	Diesel	2.08075E-05	2.51771E-05	2.99628E-05	0.000238213	0.000301344	0.128117664	8.6376E-06	7.94659E-06	1.18389E-06	1.04568E-06	4156.636498	1063.554631	3.603728509	218129.7
Los Angeles (SC)	2022	ConstMin - Skid Steer Loaders	Aggregate	600	Diesel	9.25182E-06	1.11947E-05	1.33226E-05	6.95448E-05	0.000145611	0.037039216	6.30572E-06	5.80126E-06	3.42168E-07	3.02309E-07	1201.696559	133.1864861	0.42396806	62970.57
Los Angeles (SC)	2022	ConstMin - Skid Steer Loaders	Aggregate	9999	Diesel	2.48762E-05	3.01001E-05	3.58217E-05	0.000166072	0.000443376	0.050137686	1.47668E-05	1.35854E-05	4.62801E-07	4.09217E-07	1626.662009	85.48150834	0.42396806	85481.51
Los Angeles (SC)	2022	ConstMin - Surfacing Equipment	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Surfacing Equipment	Aggregate	50	Diesel	2.10071E-05	2.54186E-05	3.02502E-05	0.000224126	0.000232382	0.035609365	9.17541E-06	8.44138E-06	3.28596E-07	2.90639E-07	1155.306637	1829.111308	7.50022009	66172.18
Los Angeles (SC)	2022	ConstMin - Surfacing Equipment	Aggregate	75	Diesel	1.89794E-05	2.29651E-05	2.73304E-05	0.000154106	0.000266133	0.021471746	1.63365E-05	1.50296E-05	1.97948E-07	1.7525E-07	696.6271679	669.6050043	2.692386699	44472.01
Los Angeles (SC)	2022	ConstMin - Surfacing Equipment	Aggregate	100	Diesel	7.08845E-05	8.57703E-05	0.000102074	0.001370747	0.001032911	0.220300148	4.87837E-05	4.4881E-05	2.03466E-06	1.79806E-06	7147.395687	5124.631212	18.46208022	456731.6
Los Angeles (SC)	2022	ConstMin - Surfacing Equipment	Aggregate	175	Diesel	9.16787E-05	0.000110931	0.000132017	0.00106705	0.001151839	0.180838856	6.25359E-05	5.7533E-05	1.66919E-06	1.47598E-06	5867.117516	2723.89516	10.96186013	376017.1
Los Angeles (SC)	2022	ConstMin - Surfacing Equipment	Aggregate	300	Diesel	0.000119386	0.000144457	0.000171916	0.000927716	0.002021333	0.366695124	6.66676E-05	6.13342E-05	3.3867E-06	2.99292E-06	11897.01945	3360.766849	13.65424683	762053.1
Los Angeles (SC)	2022	ConstMin - Surfacing Equipment	Aggregate	600	Diesel	0.000227151	0.000274853	0.000327098	0.002587445	0.003049808	1.285901835	0.000114661	0.000105488	1.1882E-05	1.04954E-05	41719.66887	6493.498923	22.6929736	2675851
Los Angeles (SC)	2022	ConstMin - Surfacing Equipment	Aggregate	750	Diesel	0.000100114	0.000121138	0.000144164	0.000963011	0.001421859	0.497914464	5.7185E-05	5.26102E-05	4.60046E-06	4.06391E-06	16154.28643	1621.507394	5.577086733	1035968
Los Angeles (SC)	2022	ConstMin - Surfacing Equipment	Aggregate	9999	Diesel	4.82117E-05	5.83361E-05	6.94248E-05	0.000448466	0.001322734	0.212482284	2.57003E-05	2.36443E-05	1.96306E-06	1.73425E-06	6893.753691	511.2109072	1.923133356	441985.9
Los Angeles (SC)	2022	ConstMin - Sweepers/Scrubbers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Sweepers/Scrubbers	Aggregate	50	Diesel	0.003321878	0.004019473	0.004783505	0.021733319	0.017903145	2.342755867	0.001333836	0.001227129	2.15603E-05	1.91213E-05	76008.13404	81424.77905	115.1754155	2901795
Los Angeles (SC)	2022	ConstMin - Sweepers/Scrubbers	Aggregate	75	Diesel	0.000553405	0.00066962	0.000796904	0.005027161	0.005711326	0.694548262	0.000419339	0.000385792	6.40484E-06	5.66881E-06	22533.85346	13100.09715	22.01583164	958035.1
Los Angeles (SC)	2022	ConstMin - Sweepers/Scrubbers	Aggregate	100	Diesel	0.001548018	0.001873102	0.002229147	0.020179609	0.017994885	2.926258624	0.001165089	0.001071882	2.70083E-05	2.38837E-05	94939.23834	50904.45886	71.75530314	4027483
Los Angeles (SC)	2022	ConstMin - Sweepers/Scrubbers	Aggregate	175	Diesel	0.000453257	0.000548441	0.000652691	0.005498332	0.005124007	0.90317387	0.0002468	0.000227056	8.33669E-06	7.37158E-06	29302.48154	7777.716952	10.80406553	1243131
Los Angeles (SC)	2022	ConstMin - Sweepers/Scrubbers	Aggregate	300	Diesel	0.000149335	0.000180695	0.000215042	0.001138287	0.002036164	0.542397008	6.48499E-05	5.96619E-05	5.01025E-06	4.42697E-06	17597.47359	3560.051999	4.892407032	746556.5
Los Angeles (SC)	2022	ConstMin - Sweepers/Scrubbers	Aggregate	600	Diesel	5.97711E-05	7.23231E-05	8.60704E-05	0.000972374	0.000818992	0.073250086	4.13571E-05	3.80486E-05	6.7544E-07	5.97857E-07	2376.518375	305.5198994	0.407700586	100821.6
Los Angeles (SC)	2022	ConstMin - Sweepers/Scrubbers	Aggregate	9999	Diesel	7.40167E-06	8.95602E-06	1.06584E-05	0.00016611	0.0004021	0.094115262	3.13685E-06	2.8859E-06	8.6992E-07	7.68156E-07	3053.466033	152.7599497	0.203850293	129540.4
Los Angeles (SC)	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	50	Diesel	0.007496186	0.009070385	0.010794507	0.062756144	0.053140114	7.587609821	0.002870849	0.002641181	6.99263E-05	6.19291E-05	246171.6444	309366.2746	598.3998931	11712233
Los Angeles (SC)	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	75	Diesel	0.002783917	0.00336854	0.004008841	0.011236012	0.02642512	1.117380133	0.002139321	0.001968175	1.02472E-05	9.11991E-06	36252.16783	26526.97668	115.7184462	1903139
Los Angeles (SC)	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	100	Diesel	0.046623557	0.056414504	0.067137922	0.801049837	0.581766159	121.1840651	0.030570364	0.028124735	0.001119008	0.000989088	3931683.53	2471598.783	3947.354277	2.06E+08
Los Angeles (SC)	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	175	Diesel	0.006677429	0.00807969	0.009615498	0.124442051	0.070829302	21.14546895	0.00360337	0.0033151	0.0001953	0.000172586	686041.4525	252326.3914	454.5337167	36186786
Los Angeles (SC)	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	300	Diesel	0.003998663	0.004838382	0.005758075	0.031208696	0.050661431	13.33045847	0.00178204	0.001639477	0.000123127	0.000108801	432492.0443	108790.7579	193.0725788	22730932
Los Angeles (SC)	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	600	Diesel	0.00449052	0.005433529	0.006466349	0.040545793	0.049291019	17.40092968	0.001810581	0.001665735	0.000160746	0.000142024	564553.9997	88040.81909	162.4228281	29846099
Los Angeles (SC)	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	750	Diesel	0.000129609	0.000156827	0.000186638	0.001555584	0.001416765	0.329309343	5.40369E-05	4.9714E-05	3.04074E-06	2.68778E-06	10684.07897	890.5522455	1.876515344	578246.8
Los Angeles (SC)	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	9999	Diesel	0.001522261	0.001841936	0.002192055	0.011469025	0.035756856	5.942070974	0.000677931	0.000623696	5.48917E-05	4.84984E-05	192783.9487	5465.499433	8.757071606	10115288
Los Angeles (SC)	2022	ConstMin - Trenchers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	ConstMin - Trenchers	Aggregate	50	Diesel	0.002724265	0.003296361	0.003922942	0.020619395	0.01948036	2.690240281	0.001256775	0.001156233	2.47909E-05	2.19574E-05	87281.88315	75591.19967	196.2209796	3013372
Los Angeles (SC)	2022	ConstMin - Trenchers	Aggregate	75	Diesel	0.000219478	0.000265569	0.000316049	0.001334272	0.002215592	0.160605911	0.000152052	0.000139887	1.4783E-06	1.31084E-06	5210.681916	2838.815499	10.47998414	200229.7
Los Angeles (SC)	2022	ConstMin - Trenchers	Aggregate	100	Diesel	0.001382588	0.001672932	0.001990927	0.012431135	0.015768233	1.773469665	0.001124857	0.001034869	1.63551E-05	1.44748E-05	57538.27014	26419.19637	80.04924055	2211075
Los Angeles (SC)	2022	ConstMin - Trenchers	Aggregate	175	Diesel	0.000250442	0.000303034	0.000360636	0.002617004	0.003163969	0.414564691	0.00016119	0.000148294	3.82534E-06	3.38362E-06	13450.09483	3685.747893	12.48678961	518265.5
Los Angeles (SC)	2022	ConstMin - Trenchers	Aggregate	300	Diesel	0.000445645	0.00053923	0.000641729	0.002718796	0.006157602	0.895215961	0.000258143	0.000237492	8.26335E-06	7.30663E-06	29044.29595	4950.670079	16.05444379	1113424
Los Angeles (SC)	2022	ConstMin - Trenchers	Aggregate	600	Diesel	0.000416937	0.000504494	0.000600389	0.004694606	0.005171985	1.358338032	0.000215116	0.000197907	1.2546E-05	1.10866E-05	44069.78149	4437.671029	12.04083284	1687167
Los Angeles (SC)	2022	ConstMin - Trenchers	Aggregate	750	Diesel	3.54822E-05	4.29335E-05	5.10944E-05	0.000772622	0.00021393	0.436327207	7.2579E-06	6.67727E-06	4.033E-06	3.56124E-06	14156.1557	841.0739144	1.783827087	544360
Los Angeles (SC)	2022	ConstMin - Trenchers	Aggregate	9999	Diesel	6.42003E-05	7.76824E-05	9.24484E-05	0.000932903	0.000888119	0.035106372	4.12665E-05	3.79651E-05	3.2265E-07	2.86533E-07	1138.987576	50.9433019	0.222978386	43811.24
Los Angeles (SC)	2022	Industrial - Aerial Lifts	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	Industrial - Aerial Lifts	Aggregate	50	Diesel	0.001981361	0.002397447	0.002853161	0.046090092	0.043046193	8.697745958	0.00035945	0.000330694	8.03555E-05	7.09898E-05	282188.7887	345146.8893	1140.475579	15921247
Los Angeles (SC)	2022	Industrial - Aerial Lifts	Aggregate	75	Diesel	0.001790132	0.002166059	0.00257779	0.064672843	0.033631293	10.72527064	0.000611901	0.000562949	9.91067E-05	8.75382E-05	347969.5943	301851.1379	1000.001711	21827435
Los Angeles (SC)	2022	Industrial - Aerial Lifts	Aggregate	100	Diesel	0.000696803	0.000843131	0.001003396	0.026601395	0.013114499	4.451267283	0.000255648	0.000235196	4.11333E-05	3.63306E-05	144416.4648	115340.597	381.5937638	9058029
Los Angeles (SC)	2022	Industrial - Aerial Lifts	Aggregate	175	Diesel	0.000132749	0.000160627	0.000191159	0.00500941	0.001261945	0.927528975	4.77022E-05	4.3886E-05	8.57148E-06	7.57037E-06	30092.65612	14474.13824	47.90105074	1888344
Los Angeles (SC)	2022	Industrial - Aerial Lifts	Aggregate	300	Diesel	6.45654E-06	7.81241E-06	9.29742E-06	0.000100428	7.13973E-05	0.055427076	9.53792E-07	8.77488E-07	5.12257E-07	4.52388E-07	1798.270451	490.6279125	1.61464216	112844.4
Los Angeles (SC)	2022	Industrial - Aerial Lifts	Aggregate	600	Diesel	3.68525E-06	4.45915E-06	5.30675E-06	7.0745E-05	1.95031E-05	0.039361257	6.73109E-07	6.19261E-07	3.63804E-07	3.21261E-07	1277.032639	163.5426375	0.538214053	80135.89
Los Angeles (SC)	2022	Industrial - Forklifts	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	Industrial - Forklifts	Aggregate	50	Diesel	0.007072406	0.008557611	0.010184264	0.052825848	0.042945846	5.853932407	0.002686643	0.002471712	5.39103E-05	4.7779E-05	189924.39	387133.5497	528.698956	16413946
Los Angeles (SC)	2022	Industrial - Forklifts	Aggregate	75	Diesel	0.001335738	0.001616243	0.001923462	0.005381934	0.012668069	0.531694584	0.001025107	0.000943098	4.87571E-06	4.33962E-06	17250.24522	22865.342	47.62660017	1675098
Los Angeles (SC)	2022	Industrial - Forklifts	Aggregate	100	Diesel	0.038599056	0.046704858	0.055582641	0.485819151	0.436140326	69.97602956	0.028701942	0.026405787	0.000645805	0.000571135	2270295.214	2652818.911	3480.237342	2.19E+08
Los Angeles (SC)	2022	Industrial - Forklifts	Aggregate	175	Diesel	0.009547328	0.011552267	0.013748152	0.135037787	0.105065666	22.28568953	0.005618811	0.005169306	0.000205756	0.000181893	723034.6536	492545.7212	657.159694	69592622
Los Angeles (SC)	2022	Industrial - Forklifts	Aggregate	300	Diesel	0.001787588	0.002162982	0.002574127	0.012011425	0.021116983	4.858098331	0.000823564	0.000757679	4.48619E-05	3.96511E-05	157615.6501	72099.94875	96.1270829	15141104
Los Angeles (SC)	2022	Industrial - Forklifts	Aggregate	600	Diesel	0.000442833	0.000535828	0.00063768	0.002858334	0.004663961	1.2222203	0.000173883	0.000159972	1.12867E-05	9.9756E-06	39653.59158	10731.38732	14.85600372	3791026
Los Angeles (SC)	2022	Industrial - Forklifts	Aggregate	9999	Diesel	1.40943E-05	1.70541E-05	2.02958E-05	0.000185285	0.000436543	0.097072113	3.88877E-06	3.57767E-06	8.97057E-07	7.9229E-07	3149.397788	344.4026628	0.436941286	303074.3
Los Angeles (SC)	2022	Industrial - Other General Industrial Equipment	Aggregate	25	Diesel	7.64147E-06	9.24618E-06	1.10037E-05	2.54078E-05	1.74953E-05	0.001336921	2.40526E-06	2.21284E-06	1.21312E-08	1.09118E-08	43.37491489	88.27996866	0.386400649	2206.999
Los Angeles (SC)	2022	Industrial - Other General Industrial Equipment	Aggregate	50	Diesel	0.012399034	0.015002831	0.017854608	0.108548541	0.08975375	12.58801175	0.005082334	0.004675747	0.00011601	0.000102742	408404.1779	590234.5736	704.7947839	20735047
Los Angeles (SC)	2022	Industrial - Other General Industrial Equipment	Aggregate	75	Diesel	0.003157883	0.003821038	0.004547351	0.056435046	0.040362353	8.36359373	0.00200896	0.001848243	7.72308E-05	6.82625E-05	271347.5877	214806.3509	253.4788258	15345234
Los Angeles (SC)	2022	Industrial - Other General Industrial Equipment	Aggregate	100	Diesel	0.002123023	0.002568858	0.003057153	0.014056686	0.02025942	1.772201152	0.001747799	0.001607975	1.63212E-05	1.44645E-05	57497.11466	40751.79913	53.70969022	3236840
Los Angeles (SC)	2022	Industrial - Other General Industrial Equipment	Aggregate	175	Diesel	0.001930288	0.002335648	0.002779614	0.029306356	0.020463365	4.739678487	0.001085052	0.000998247	4.37628E-05	3.86846E-05	153773.6487	58538.44722	70.32491813	8691494
Los Angeles (SC)	2022	Industrial - Other General Industrial Equipment	Aggregate	300	Diesel	0.001626376	0.001967915	0.002341982	0.011828442	0.021164719	4.782856557	0.000684668	0.000629895	4.41711E-05	3.9037E-05	155174.5136	40795.05632	50.61848503	8760830
Los Angeles (SC)	2022	Industrial - Other General Industrial Equipment	Aggregate	600	Diesel	0.003707975	0.00448665	0.005339484	0.031326329	0.032666627	15.03958094	0.001134736	0.001043957	0.000138937	0.000122751	487942.6403	72635.87541	85.00814279	27592493
Los Angeles (SC)	2022	Industrial - Other General Industrial Equipment	Aggregate	750	Diesel	0.000641062	0.000775686	0.00092313	0.008521364	0.005865188	2.482200425	0.00030352	0.000279238	2.29299E-05	2.02594E-05	80532.25914	7188.637848	8.500814279	4544000
Los Angeles (SC)	2022	Industrial - Other General Industrial Equipment	Aggregate	9999	Diesel	0.000186704	0.000225912	0.000268854	0.001644168	0.005275452	0.857880298	8.72246E-05	8.02466E-05	7.92593E-06	7.0019E-06	27832.98148	1352.44912	1.545602596	1573913
Los Angeles (SC)	2022	Industrial - Other Material Handling Equipment	Aggregate	25	Diesel	1.48843E-05	1.801E-05	2.14334E-05	0.000124839	8.8232E-05	0.014272552	3.48022E-06	3.20181E-06	1.3151E-07	1.16491E-07	463.0572237	814.9561915	1.322764935	20373.9
Los Angeles (SC)	2022	Industrial - Other Material Handling Equipment	Aggregate	50	Diesel	0.00090159	0.001090924	0.00129829	0.005889069	0.004856956	0.574471	0.000383564	0.000352879	5.28422E-06	4.68876E-06	18638.07894	22745.23591	29.98267186	814998.4
Los Angeles (SC)	2022	Industrial - Other Material Handling Equipment	Aggregate	75	Diesel	0.000100226	0.000121273	0.000144325	0.000965312	0.001079677	0.125294937	8.5169E-05	7.83555E-05	1.15541E-06	1.02264E-06	4065.056259	2801.97855	4.409216449	199673
Los Angeles (SC)	2022	Industrial - Other Material Handling Equipment	Aggregate	100	Diesel	0.002062305	0.002495389	0.002969719	0.042508173	0.028113874	6.42890084	0.001050125	0.000966115	5.93765E-05	5.24718E-05	208578.6076	109559.7286	140.6540047	10192980
Los Angeles (SC)	2022	Industrial - Other Material Handling Equipment	Aggregate	175	Diesel	0.001968145	0.002381455	0.002834128	0.027921885	0.019355203	4.491430911	0.001252352	0.001152164	4.14665E-05	3.66585E-05	145719.5295	51497.37388	70.54746319	7117652
Los Angeles (SC)	2022	Industrial - Other Material Handling Equipment	Aggregate	300	Diesel	0.002825595	0.00341897	0.004068857	0.016136637	0.032800779	7.136050702	0.001305132	0.001200721	6.58916E-05	5.82435E-05	231521.3061	48191.71412	63.93363851	11320995
Los Angeles (SC)	2022	Industrial - Other Material Handling Equipment	Aggregate	600	Diesel	0.003069363	0.003713929	0.004419883	0.025533766	0.0349252	9.81151125	0.001279373	0.001177023	9.06202E-05	8.00802E-05	318323.677	42789.2295	55.99704891	15551153
Los Angeles (SC)	2022	Industrial - Other Material Handling Equipment	Aggregate	750	Diesel	0.000202839	0.000245436	0.000292089	0.000880223	0.002094492	0.420779495	0.000106008	9.75271E-05	3.88423E-06	3.43435E-06	13651.72732	1071.329925	1.322764935	667795.7
Los Angeles (SC)	2022	Industrial - Other Material Handling Equipment	Aggregate	9999	Diesel	8.92052E-05	0.000107938	0.000128455	0.001277715	0.003026754	0.680222681	2.62833E-05	2.41807E-05	6.28632E-06	5.55189E-06	22069.07577	1071.329925	1.322764935	1079543
Los Angeles (SC)	2022	Locomotive - Line haul	Aggregate	9999	Diesel	0.148021	0.179	0.213	0.947	4.05	0	0.097	0.089	0.004	0.003	0	0	0	2.45E+08
Los Angeles (SC)	2022	Locomotive - Passenger	Aggregate	9999	Diesel	0.018611866	1.3903E-05	1.65457E-05	0.258443187	0.412596853	0	0.007566543	0.00696122	0.000719966	0.000815928	0	0	0	0
Los Angeles (SC)	2022	Locomotive - Short line	Aggregate	9999	Diesel	0.008791429	9.66115E-07	1.14976E-06	0.064449169	0.297339217	0	0.004875219	0.004485202	0.00023747	0.00021183	0	0	0	0
Los Angeles (SC)	2022	Locomotive - Switcher	Aggregate	9999	Diesel	0.142246263	0.000412148	0.00049049	0.382133622	2.206336209	0	0.046603141	0.042874889	0.001272341	0.001144368	0	0	0	0
Los Angeles (SC)	2022	Ocean Going Vessels	Aggregate		Diesel	0.697480668	0.889913476	1.063310924	1.532417268	14.11838103	1476.407098	0.406334063	0.373827338	1.588749686	0.009587793	46588503.77	0	0	8.44E+08
Los Angeles (SC)	2022	OFF - Agricultural - 2-Wheel Tractors	Aggregate	25	Gasoline	0.000947237	0.000871269	0.001042377	0.034292359	0.000695522	0.061348899	0.000389792	0.00029451	1.8016E-06	1.58045E-06	4511.4	10898.9	42.92	76299.6
Los Angeles (SC)	2022	OFF - Agricultural - Agricultural Mowers	Aggregate	25	Gasoline	0.000753051	0.000692656	0.000828686	0.031841627	0.000562223	0.051785601	0.000390707	0.000295201	1.37025E-06	1.39121E-06	3971.2	6653.95	36.93	83125.1
Los Angeles (SC)	2022	OFF - Agricultural - Agricultural Tractors	Aggregate	25	Diesel	0.004355401	0.005183287	0.006271777	0.024737815	0.039529307	5.253637098	0.001496496	0.001376776	7.11458E-05	4.39775E-05	174813.1	241943.9	454.12	4372937
Los Angeles (SC)	2022	OFF - Agricultural - Agricultural Tractors	Aggregate	100	Gasoline	0.000630541	0.000579972	0.000693872	0.025435767	0.00157579	0.462343231	3.22357E-05	2.43558E-05	4.46688E-06	6.69006E-06	19096.8	3890.9	7.06	319053.8
Los Angeles (SC)	2022	OFF - Agricultural - Agricultural Tractors	Aggregate	175	Gasoline	8.73326E-05	8.03285E-05	9.61042E-05	0.003523391	0.000361821	0.09393803	6.73436E-06	5.08818E-06	9.33176E-07	1.32088E-06	3770.45	536.55	0.97	67068.75
Los Angeles (SC)	2022	OFF - Agricultural - Balers	Aggregate	50	Gasoline	0.000113334	0.000104245	0.000124717	0.006082395	0.000208668	0.079919014	5.50955E-06	4.16277E-06	9.7167E-07	1.19685E-06	3416.4	1762.95	25.77	61703.25
Los Angeles (SC)	2022	OFF - Agricultural - Balers	Aggregate	100	Gasoline	5.13794E-05	4.72588E-05	5.65399E-05	0.001608934	0.000182179	0.073900513	5.15252E-06	3.89302E-06	7.13982E-07	1.01783E-06	2905.4	901.55	13.18	57699.2
Los Angeles (SC)	2022	OFF - Agricultural - Combines	Aggregate	100	Gasoline	1.58917E-05	1.46172E-05	1.74878E-05	0.000736026	4.01162E-05	0.039467918	2.7518E-06	2.07914E-06	3.81315E-07	5.37046E-07	1533	219	1.78	22557
Los Angeles (SC)	2022	OFF - Agricultural - Combines	Aggregate	175	Gasoline	1.01487E-05	9.33477E-06	1.1168E-05	0.001089355	3.81137E-05	0.033954399	2.43417E-06	1.83915E-06	3.37301E-07	4.74391E-07	1354.15	120.45	0.97	19753.8
Los Angeles (SC)	2022	OFF - Agricultural - Combines	Aggregate	300	Gasoline	1.84386E-06	1.69598E-06	2.02905E-06	0.0002379	2.16177E-05	0.007205992	5.3159E-07	4.01645E-07	7.36621E-08	1.03573E-07	295.65	29.2	0.18	5664.8
Los Angeles (SC)	2022	OFF - Agricultural - Hydro Power Units	Aggregate	25	Gasoline	0.000740692	0.000681289	0.000815087	0.028689774	0.00054957	0.04824487	0.000342567	0.000258829	1.32916E-06	1.2774E-06	3646.35	6770.75	17.46	66528.55
Los Angeles (SC)	2022	OFF - Agricultural - Hydro Power Units	Aggregate	25	Diesel	2.95132E-05	3.51232E-05	4.2499E-05	0.000156273	0.000268212	0.035413064	1.00874E-05	9.2804E-06	4.64435E-07	2.96587E-07	1178.95	2562.3	3.16	42934.95
Los Angeles (SC)	2022	OFF - Agricultural - Hydro Power Units	Aggregate	50	Gasoline	6.68421E-06	6.14814E-06	7.35557E-06	0.00053205	1.03324E-05	0.005486434	3.7823E-07	2.85774E-07	6.6705E-08	8.4393E-08	240.9	105.85	0.25	4022.3
Los Angeles (SC)	2022	OFF - Agricultural - Hydro Power Units	Aggregate	100	Gasoline	5.05554E-07	4.65008E-07	5.56331E-07	2.48696E-05	1.26957E-06	0.001177752	8.21157E-08	6.2043E-08	1.13787E-08	1.53442E-08	43.8	10.95	0.03	722.7
Los Angeles (SC)	2022	OFF - Agricultural - Other Agricultural Equipment	Aggregate	25	Gasoline	9.7279E-05	8.94772E-05	0.00010705	0.00343626	6.70604E-05	0.006140706	3.66045E-05	2.76567E-05	1.77243E-07	1.57278E-07	448.95	978.2	6.79	8489.9
Los Angeles (SC)	2022	OFF - Agricultural - Other Agricultural Equipment	Aggregate	25	Diesel	6.83562E-05	8.13495E-05	9.84329E-05	0.000364167	0.000622093	0.081956897	2.40477E-05	2.21238E-05	1.07846E-06	6.85914E-07	2726.55	4839.9	10.85	93666.3
Los Angeles (SC)	2022	OFF - Agricultural - Other Agricultural Equipment	Aggregate	50	Gasoline	4.92764E-06	4.53244E-06	5.42256E-06	0.000314759	8.33816E-06	0.003753568	2.58768E-07	1.95513E-07	4.56366E-08	5.49833E-08	156.95	94.9	0.8	2752.1
Los Angeles (SC)	2022	OFF - Agricultural - Other Agricultural Equipment	Aggregate	100	Gasoline	2.91089E-05	2.67743E-05	3.20325E-05	0.001131899	8.77198E-05	0.04966803	3.46297E-06	2.61647E-06	4.79862E-07	6.82816E-07	1949.1	569.4	4.61	38149.8
Los Angeles (SC)	2022	OFF - Agricultural - Other Agricultural Equipment	Aggregate	175	Gasoline	4.55482E-06	4.18953E-06	5.0123E-06	0.000362787	2.2054E-05	0.011178626	8.01388E-07	6.05493E-07	1.11048E-07	1.53442E-07	438	47.45	0.52	6453.2
Los Angeles (SC)	2022	OFF - Agricultural - Other Agricultural Equipment	Aggregate	300	Gasoline	2.43629E-06	2.2409E-06	2.68099E-06	0.000243738	2.53885E-05	0.007298471	5.38412E-07	4.068E-07	7.46074E-08	1.02299E-07	292	10.95	0.14	2693.7
Los Angeles (SC)	2022	OFF - Agricultural - Sprayers	Aggregate	25	Gasoline	0.001617753	0.001488009	0.001780238	0.056849331	0.001013934	0.097394491	0.000592089	0.000447356	2.68245E-06	2.55992E-06	7307.3	16001.6	163.02	150168.3
Los Angeles (SC)	2022	OFF - Agricultural - Sprayers	Aggregate	25	Diesel	6.87731E-06	8.18456E-06	9.90332E-06	3.22981E-05	5.93134E-05	0.007518909	2.61483E-06	2.40565E-06	9.54007E-08	6.33575E-08	251.85	452.6	4.2	8599.4
Los Angeles (SC)	2022	OFF - Agricultural - Sprayers	Aggregate	50	Gasoline	2.19681E-05	2.02062E-05	2.41745E-05	0.001194151	3.99677E-05	0.015172777	1.046E-06	7.90309E-07	1.84473E-07	2.27605E-07	649.7	372.3	4.84	12285.9
Los Angeles (SC)	2022	OFF - Agricultural - Sprayers	Aggregate	100	Gasoline	3.70866E-05	3.41123E-05	4.08115E-05	0.00117724	0.000129656	0.052100937	3.6326E-06	2.74463E-06	5.03368E-07	7.18619E-07	2051.3	660.65	8.17	44924.2
Los Angeles (SC)	2022	OFF - Agricultural - Sprayers	Aggregate	175	Gasoline	1.08046E-05	9.93812E-06	1.18899E-05	0.000755156	6.59815E-05	0.02352583	1.68655E-06	1.27428E-06	2.33704E-07	3.299E-07	941.7	149.65	1.86	20951
Los Angeles (SC)	2022	OFF - Agricultural - Swathers	Aggregate	100	Gasoline	0.000197087	0.000181281	0.000216883	0.006356285	0.000677403	0.269048364	1.87587E-05	1.41732E-05	2.59938E-06	3.70818E-06	10585	2511.2	26.45	220985.6
Los Angeles (SC)	2022	OFF - Agricultural - Swathers	Aggregate	175	Gasoline	0.000139442	0.000128259	0.000153448	0.00948842	0.000834479	0.294048217	2.10801E-05	1.59272E-05	2.92106E-06	4.10073E-06	11705.55	1934.5	20.24	249550.5
Los Angeles (SC)	2022	OFF - Agricultural - Tillers	Aggregate	25	Gasoline	0.012621692	0.011609433	0.013889403	0.718656009	0.009310306	1.201737351	0.00055175	0.000416878	3.42648E-05	3.15873E-05	90165.95	186449.3	2622.03	1305145
Los Angeles (SC)	2022	OFF - AirGrSupp - A/C Tug Narrow Body	Aggregate	175	Gasoline	0.003317824	0.003051734	0.003651063	0.192035942	0.021602078	4.883351896	0.000350084	0.000264508	4.8511E-05	6.88877E-05	196640.1	20644.4	28.38	2683772
Los Angeles (SC)	2022	OFF - AirGrSupp - A/C Tug Wide Body	Aggregate	600	Gasoline	0.002186379	0.002011032	0.002405977	0.233236977	0.020852381	6.663808253	0.000491592	0.000371425	6.81197E-05	9.32747E-05	266252.9	7540.9	14.59	3770450
Los Angeles (SC)	2022	OFF - AirGrSupp - Air Conditioner	Aggregate	175	Gasoline	5.53253E-08	5.08882E-08	6.08821E-08	5.51709E-06	6.26725E-07	0.000175828	1.2605E-08	9.52378E-09	1.74667E-09	0	0	0	0	0
Los Angeles (SC)	2022	OFF - AirGrSupp - Air Conditioner	Aggregate	175	Nat Gas	0	0	2.68251E-08	2.331E-05	2.83957E-06	0.000944899	0	0	0	0	62.05	0	0.18	0
Los Angeles (SC)	2022	OFF - AirGrSupp - Air Start Unit	Aggregate	175	Gasoline	5.68907E-06	5.23281E-06	6.26047E-06	0.000531616	6.03123E-05	0.01663206	1.19234E-06	9.0088E-07	1.65222E-07	2.31441E-07	660.65	62.05	0.82	8066.5
Los Angeles (SC)	2022	OFF - AirGrSupp - Baggage Tug	Aggregate	100	Gasoline	0.029563883	0.02719286	0.03253325	2.18178489	0.175223342	54.0187264	0.003766316	0.002845661	0.000521896	0.000762813	2177451.3	419899.65	478.45	41989965
Los Angeles (SC)	2022	OFF - AirGrSupp - Baggage Tug	Aggregate	100	Nat Gas	0	0	0.001069997	0.392972259	0.045516043	8.873121829	0	0	0	0	493483.65	79175.8	95.28	7917580
Los Angeles (SC)	2022	OFF - AirGrSupp - Belt Loader	Aggregate	100	Gasoline	0.007145726	0.006572639	0.007863436	0.535842745	0.041994075	12.80313004	0.000892665	0.000674458	0.000123696	0.000181192	517212.3	182452.55	224.85	10947153
Los Angeles (SC)	2022	OFF - AirGrSupp - Belt Loader	Aggregate	100	Nat Gas	0	0	7.69118E-05	0.03335804	0.003749023	0.850220536	0	0	0	0	46887.9	13899.2	25.19	833952
Los Angeles (SC)	2022	OFF - AirGrSupp - Bobtail	Aggregate	100	Gasoline	0.003592218	0.003304122	0.003953017	0.265102327	0.02129085	6.56364539	0.000457633	0.000345767	6.3414E-05	9.26878E-05	264577.55	51019.7	58.13	5101970
Los Angeles (SC)	2022	OFF - AirGrSupp - Bobtail	Aggregate	100	Nat Gas	0	0	8.43733E-06	0.00579504	0.000525229	0.161816964	0	0	0	0	8869.5	1445.4	1.64	144540
Los Angeles (SC)	2022	OFF - AirGrSupp - Cargo Loader	Aggregate	100	Gasoline	0.002619013	0.002408969	0.002882064	0.196323963	0.015399647	4.698396874	0.000327583	0.000247508	4.53931E-05	6.64837E-05	189778.1	57385.3	79.67	4016971
Los Angeles (SC)	2022	OFF - AirGrSupp - Cargo Loader	Aggregate	100	Nat Gas	0	0	0.000142108	0.047831249	0.005637881	0.997250792	0	0	0	0	55801.2	13990.45	13.53	979331.5
Los Angeles (SC)	2022	OFF - AirGrSupp - Cargo Tractor	Aggregate	100	Gasoline	0.075455578	0.069404041	0.083034261	6.79247357	0.35747699	79.82762304	0.005565773	0.004205251	0.000659065	0.001203326	3434898.2	665274.55	492.33	63201082
Los Angeles (SC)	2022	OFF - AirGrSupp - Cargo Tractor	Aggregate	175	Nat Gas	0	0	5.03219E-05	0.037357433	0.00447986	1.424235413	0	0	0	0	76872.65	8322	53.4	1294903
Los Angeles (SC)	2022	OFF - AirGrSupp - Cart	Aggregate	25	Gasoline	5.08963E-05	4.68144E-05	5.60082E-05	0.003223056	4.00933E-05	0.005450431	2.4569E-06	1.85632E-06	1.55407E-07	1.41934E-07	405.15	708.1	4.65	8497.2
Los Angeles (SC)	2022	OFF - AirGrSupp - Catering Truck	Aggregate	300	Gasoline	0.010439663	0.009602402	0.011488212	0.537496131	0.059879086	12.22844754	0.000902099	0.000681586	0.000106821	0.000173795	496097.05	52162.15	51.31	10635862
Los Angeles (SC)	2022	OFF - AirGrSupp - Catering Truck	Aggregate	300	Nat Gas	0	0	4.74945E-05	0.027801706	0.003236756	0.936484499	0	0	0	0	50833.55	4310.65	9.52	883683.3
Los Angeles (SC)	2022	OFF - AirGrSupp - Deicer	Aggregate	100	Gasoline	2.55813E-05	2.35297E-05	2.81507E-05	0.000879938	0.000166536	0.051448353	3.5871E-06	2.71026E-06	4.97063E-07	6.9816E-07	1992.9	240.9	11.29	22403.7
Los Angeles (SC)	2022	OFF - AirGrSupp - Forklift	Aggregate	50	Gasoline	0.002729701	0.002510779	0.003003869	0.253531674	0.006060328	1.936019785	0.000133467	0.000100842	2.35385E-05	3.10822E-05	88724.2	54556.55	75.02	2727828
Los Angeles (SC)	2022	OFF - AirGrSupp - Forklift	Aggregate	50	Nat Gas	0	0	0.000177375	0.048146754	0.013025484	3.901957199	0	0	0	0	206298	127677	175.55	6383850
Los Angeles (SC)	2022	OFF - AirGrSupp - Fuel Truck	Aggregate	175	Gasoline	2.50054E-05	2.3E-05	2.7517E-05	0.002460063	0.000283242	0.078438621	5.62321E-06	4.24865E-06	7.79206E-07	1.09071E-06	3113.45	1051.2	48.14	136656
Los Angeles (SC)	2022	OFF - AirGrSupp - Fuel Truck	Aggregate	175	Nat Gas	0	0	1.39413E-05	0.007640313	0.000880904	0.246432075	0	0	0	0	13410.1	3452.9	6.09	483406

Los Angeles (SC)	2022	OFF - AirGrSupp - Generator	Aggregate	100	Gasoline	0.000892086	0.000820541	0.000981687	0.0520351	0.00326391	0.652922223	4.55233E-05	3.43954E-05	5.39059E-06	9.78191E-06	27922.5	3343.4	3.72	357743.8
Los Angeles (SC)	2022	OFF - AirGrSupp - Ground Power Unit	Aggregate	175	Gasoline	0.004396412	0.00404382	0.004837983	0.451217653	0.040143532	13.05170933	0.000935668	0.00070695	0.000129655	0.000182569	521143.35	50994.15	63.95	7649123
Los Angeles (SC)	2022	OFF - AirGrSupp - Hydrant truck	Aggregate	175	Gasoline	0.009815373	0.00902818	0.010801219	0.436001168	0.047895167	8.922207541	0.000639627	0.000483274	7.57408E-05	0.000127844	364930.65	46121.4	30.15	5603750
Los Angeles (SC)	2022	OFF - AirGrSupp - Lav Cart	Aggregate	25	Gasoline	5.61206E-05	5.16197E-05	6.17573E-05	0.003553886	4.42087E-05	0.006009889	2.70909E-06	2.04687E-06	1.71358E-07	1.55999E-07	445.3	773.8	5.15	9285.6
Los Angeles (SC)	2022	OFF - AirGrSupp - Lav Truck	Aggregate	175	Gasoline	0.002424644	0.002230187	0.002668173	0.18151091	0.015734616	4.579383803	0.000328293	0.000248044	4.54914E-05	6.45887E-05	184368.8	61936.85	51.03	8051791
Los Angeles (SC)	2022	OFF - AirGrSupp - Lav Truck	Aggregate	175	Nat Gas	0	0	4.52664E-06	0.002766808	0.000324055	0.095656018	0	0	0	0	5186.65	1445.4	3.72	187902
Los Angeles (SC)	2022	OFF - AirGrSupp - Lift	Aggregate	100	Gasoline	0.004054936	0.00372973	0.004462209	0.201582125	0.018900275	4.784131635	0.000333561	0.000252024	4.62214E-05	6.78097E-05	193563.15	40912.85	108.58	4091285
Los Angeles (SC)	2022	OFF - AirGrSupp - Lift	Aggregate	100	Nat Gas	0	0	9.58601E-06	0.005015118	0.000547344	0.141606185	0	0	0	0	7763.55	1394.3	4.09	139430
Los Angeles (SC)	2022	OFF - AirGrSupp - Maint. Truck	Aggregate	175	Gasoline	0.002112147	0.001942753	0.002324289	0.174633274	0.017102801	4.937273651	0.00035395	0.000267429	4.90466E-05	6.91715E-05	197450.4	33397.5	74.22	4341675
Los Angeles (SC)	2022	OFF - AirGrSupp - Other	Aggregate	50	Nat Gas	0	0	0.000180805	0.022193973	0.007154276	1.309232232	0	0	0	0	69948.6	25703.3	25.21	1285165
Los Angeles (SC)	2022	OFF - AirGrSupp - Other GSE	Aggregate	50	Gasoline	0.00213423	0.001963064	0.00234859	0.147086033	0.004441961	1.44790765	9.98175E-05	7.54176E-05	1.76039E-05	2.23705E-05	63856.75	24484.2	133.5	1224210
Los Angeles (SC)	2022	OFF - AirGrSupp - Passenger Stand	Aggregate	175	Gasoline	0.000781692	0.000719	0.000860204	0.064469984	0.007366817	1.942123815	0.00013923	0.000105196	1.71883E-05	2.71195E-05	77412.85	11570.5	61.57	1447470
Los Angeles (SC)	2022	OFF - AirGrSupp - Passenger Stand	Aggregate	175	Nat Gas	0	0	1.47912E-07	0.000130307	1.58935E-05	0.005307286	0	0	0	0	288.35	3.65	2.22	602.25
Los Angeles (SC)	2022	OFF - AirGrSupp - Service Truck	Aggregate	300	Gasoline	0.012955239	0.011916228	0.01425645	0.713337293	0.079931572	17.0406801	0.001257099	0.000949808	0.000174196	0.000241357	688955.75	214119.95	254.35	38541591
Los Angeles (SC)	2022	OFF - AirGrSupp - Service Truck	Aggregate	300	Nat Gas	0	0	0.000151926	0.083302119	0.007522193	2.379231736	0	0	0	0	130268.5	32433.9	24.92	5838102
Los Angeles (SC)	2022	OFF - AirGrSupp - Sweeper	Aggregate	50	Nat Gas	0	0	1.39954E-06	0.000347159	0.000107724	0.028985635	0	0	0	0	1529.35	613.2	2.22	27594
Los Angeles (SC)	2022	OFF - AirGrSupp - Sweeper	Aggregate	100	Gasoline	0.000113805	0.000104678	0.000125235	0.005620614	0.00053601	0.136743415	9.53408E-06	7.20353E-06	1.12897E-06	1.93337E-06	5518.8	2146.2	5.91	114392.5
Los Angeles (SC)	2022	OFF - AirGrSupp - Water Truck	Aggregate	175	Gasoline	0.000154434	0.000142049	0.000169946	0.011476604	0.001306556	0.332169658	2.3813E-05	1.79921E-05	3.29976E-06	4.65184E-06	13278.7	4865.45	15.67	729817.5
Los Angeles (SC)	2022	OFF - ConstMin - Asphalt Pavers	Aggregate	25	Gasoline	0.003675879	0.003381073	0.00404508	0.154188372	0.002685427	0.248099767	0.00187184	0.001414279	6.43972E-06	6.70029E-06	19126	16844.75	42.51	289777.2
Los Angeles (SC)	2022	OFF - ConstMin - Asphalt Pavers	Aggregate	50	Gasoline	0.000617461	0.000567941	0.000679478	0.044230226	0.000883332	0.310399513	2.13987E-05	1.61679E-05	3.77389E-06	5.06741E-06	14464.95	6212.3	15.85	198793.6
Los Angeles (SC)	2022	OFF - ConstMin - Asphalt Pavers	Aggregate	100	Gasoline	0.0003116	0.00028661	0.000342897	0.013397852	0.000829534	0.321366392	2.24064E-05	1.69293E-05	3.10485E-06	4.55338E-06	12997.65	3416.4	8.68	208400.4
Los Angeles (SC)	2022	OFF - ConstMin - Bore/Drill Rigs	Aggregate	25	Gasoline	0.001306054	0.001201308	0.001437232	0.057395389	0.000942857	0.091978247	0.000693949	0.000524317	2.36046E-06	2.48703E-06	7099.25	5380.1	43.41	89658.6
Los Angeles (SC)	2022	OFF - ConstMin - Bore/Drill Rigs	Aggregate	25	Diesel	0.00017107	0.000203587	0.000246341	0.000918549	0.001554266	0.205477195	5.85301E-05	5.38477E-05	2.71185E-06	1.71892E-06	6832.8	10300.3	12.68	159643.7
Los Angeles (SC)	2022	OFF - ConstMin - Bore/Drill Rigs	Aggregate	50	Gasoline	4.76018E-05	4.37841E-05	5.23829E-05	0.002656798	8.44156E-05	0.031424346	2.16637E-06	1.63681E-06	3.82063E-07	4.76948E-07	1361.45	529.25	4.91	16936
Los Angeles (SC)	2022	OFF - ConstMin - Bore/Drill Rigs	Aggregate	100	Gasoline	0.000293856	0.000270288	0.00032337	0.009590665	0.000996828	0.392275239	2.73504E-05	2.06647E-05	3.78993E-06	5.41521E-06	15457.75	2401.7	22.49	211349.6
Los Angeles (SC)	2022	OFF - ConstMin - Bore/Drill Rigs	Aggregate	175	Gasoline	6.57367E-05	6.04646E-05	7.23393E-05	0.004381358	0.000387315	0.135211977	9.69326E-06	7.3238E-06	1.34319E-06	1.88605E-06	5383.75	594.95	5.57	74963.7
Los Angeles (SC)	2022	OFF - ConstMin - Cement and Mortar Mixers	Aggregate	25	Gasoline	0.051444532	0.047318681	0.056611569	1.767903564	0.034724828	3.198155864	0.01793933	0.01355416	9.62299E-05	8.2044E-05	234194.95	602731.8	6545.81	4179506
Los Angeles (SC)	2022	OFF - ConstMin - Cement and Mortar Mixers	Aggregate	25	Diesel	0.000430976	0.000512897	0.000620605	0.003009117	0.003883748	0.526249152	0.00015245	0.000140254	7.88649E-06	4.41115E-06	17534.6	53041.8	176.7	547397.8
Los Angeles (SC)	2022	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	25	Gasoline	0.040113017	0.036895953	0.044141929	1.660451809	0.030655329	2.767417315	0.020369924	0.015390609	7.61554E-05	7.34666E-05	209710.75	261821.8	921.34	2735660
Los Angeles (SC)	2022	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	25	Diesel	1.42033E-05	1.69031E-05	2.04528E-05	6.9808E-05	0.000129245	0.016953794	4.82928E-06	4.44294E-06	2.15112E-07	1.40488E-07	558.45	755.55	1.26	13599.9
Los Angeles (SC)	2022	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	50	Gasoline	0.000807144	0.000742411	0.000888212	0.059979488	0.001300899	0.72108923	4.97113E-05	3.75596E-05	8.76713E-06	1.08483E-05	30966.6	11165.35	18.29	390787.3
Los Angeles (SC)	2022	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	50	Diesel	0.000214318	0.000255056	0.000308617	0.002072983	0.001846305	0.266454279	7.42906E-05	6.83473E-05	3.44459E-06	2.24231E-06	8913.3	6449.55	11.1	212835.2
Los Angeles (SC)	2022	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	100	Gasoline	0.000331705	0.000305103	0.000365022	0.016347897	0.000832708	0.77062342	5.37297E-05	4.05958E-05	7.4453E-06	1.05683E-05	30167.25	6398.45	10.48	422297.7
Los Angeles (SC)	2022	OFF - ConstMin - Cranes	Aggregate	50	Gasoline	0.000217339	0.000199908	0.000239168	0.014427191	0.000312823	0.09527312	6.56804E-06	4.96252E-06	1.15835E-06	1.5715E-06	4485.85	2303.15	5.57	85216.55
Los Angeles (SC)	2022	OFF - ConstMin - Cranes	Aggregate	100	Gasoline	0.000443067	0.000407533	0.000487568	0.017206568	0.001184399	0.376811078	2.62722E-05	1.98501E-05	3.64052E-06	5.37813E-06	15351.9	4628.2	11.14	342486.8
Los Angeles (SC)	2022	OFF - ConstMin - Cranes	Aggregate	175	Gasoline	1.96628E-05	1.80858E-05	2.16377E-05	0.000889807	8.79026E-05	0.024761656	1.77515E-06	1.34122E-06	2.45981E-07	3.50359E-07	1000.1	189.8	0.45	23725
Los Angeles (SC)	2022	OFF - ConstMin - Crushing/Proc. Equipment	Aggregate	25	Gasoline	0.000588916	0.000541685	0.000648066	0.025018425	0.000446176	0.040954475	0.00030899	0.000233459	1.09791E-06	1.09839E-06	3135.35	3149.95	10.92	37062.1
Los Angeles (SC)	2022	OFF - ConstMin - Crushing/Proc. Equipment	Aggregate	100	Gasoline	0.00027816	0.000255851	0.000306098	0.010019178	0.000834384	0.297770173	2.07613E-05	1.56863E-05	2.87688E-06	4.17106E-06	11906.3	1554.9	6.44	149270.4
Los Angeles (SC)	2022	OFF - ConstMin - Dumpers/Tenders	Aggregate	25	Gasoline	0.004712501	0.004334559	0.00518582	0.172683912	0.003364669	0.301056991	0.001986954	0.001501254	8.58677E-06	7.84215E-06	22385.45	65046.65	436.26	566111.4
Los Angeles (SC)	2022	OFF - ConstMin - Dumpers/Tenders	Aggregate	25	Diesel	4.40946E-05	5.24762E-05	6.34962E-05	0.000216721	0.000401245	0.052633546	1.50796E-05	1.38732E-05	6.6782E-07	4.38912E-07	1744.7	5037	7.62	80592
Los Angeles (SC)	2022	OFF - ConstMin - Dumpers/Tenders	Aggregate	100	Gasoline	2.50869E-05	2.30749E-05	2.76066E-05	0.000833999	8.33327E-05	0.032298327	2.25192E-06	1.70145E-06	3.12047E-07	4.48817E-07	1281.15	511	4.02	33726
Los Angeles (SC)	2022	OFF - ConstMin - Excavators	Aggregate	25	Diesel	0.000309102	0.000367857	0.000445107	0.00151921	0.00281272	0.368960315	0.000105098	9.66903E-05	4.68141E-06	3.08616E-06	12267.65	16403.1	11.74	377271.3
Los Angeles (SC)	2022	OFF - ConstMin - Other Construction Equipment	Aggregate	25	Diesel	0.000996702	0.001186157	0.00143525	0.007037968	0.009003293	1.224907668	0.000348914	0.000321001	1.84232E-05	1.02676E-05	40814.3	84771.25	122.76	1151082
Los Angeles (SC)	2022	OFF - ConstMin - Other Construction Equipment	Aggregate	175	Gasoline	0.000309404	0.00028459	0.00034048	0.026348667	0.001020625	0.797585827	5.71784E-05	4.32015E-05	7.92318E-06	1.11309E-05	31773.25	5796.2	15.6	730321.2
Los Angeles (SC)	2022	OFF - ConstMin - Pavers	Aggregate	25	Diesel	8.36744E-05	9.95795E-05	0.000120491	0.000411117	0.000761702	0.099845198	2.89089E-05	2.65962E-05	1.26685E-06	8.34667E-07	3317.85	3912.8	4.75	93907.2
Los Angeles (SC)	2022	OFF - ConstMin - Paving Equipment	Aggregate	25	Gasoline	0.084653951	0.077864704	0.093156509	3.084476304	0.062231449	5.522225877	0.035224383	0.026613978	0.000162115	0.000142093	405606.25	880358.1	4653.79	7216838
Los Angeles (SC)	2022	OFF - ConstMin - Paving Equipment	Aggregate	25	Diesel	9.90762E-05	0.000117909	0.00014267	0.000486951	0.000901559	0.118262525	3.3687E-05	3.09921E-05	1.50053E-06	9.8801E-07	3927.4	6840.1	8.24	129961.9
Los Angeles (SC)	2022	OFF - ConstMin - Paving Equipment	Aggregate	50	Gasoline	0.000463454	0.000426285	0.000510003	0.034249012	0.000752789	0.391359771	2.698E-05	2.03849E-05	4.75822E-06	5.92541E-06	16914.1	7570.1	43.24	280093.7
Los Angeles (SC)	2022	OFF - ConstMin - Paving Equipment	Aggregate	100	Gasoline	8.39843E-05	7.72487E-05	9.24196E-05	0.004049256	0.000223351	0.177901657	1.24037E-05	9.37171E-06	1.71878E-06	2.44484E-06	6978.8	1945.45	11.15	128399.7
Los Angeles (SC)	2022	OFF - ConstMin - Plate Compactors	Aggregate	25	Gasoline	0.035714465	0.032850165	0.03930159	1.152276532	0.024584415	2.183114513	0.01192933	0.009013271	6.64765E-05	5.4904E-05	156723.7	498684.9	2572.49	3060540
Los Angeles (SC)	2022	OFF - ConstMin - Plate Compactors	Aggregate	25	Diesel	0.000292729	0.000348372	0.00042153	0.002211094	0.002639779	0.362122396	0.00010315	9.48984E-05	5.63494E-06	3.03657E-06	12070.55	61334.6	102.14	490676.8
Los Angeles (SC)	2022	OFF - ConstMin - Rollers	Aggregate	25	Gasoline	0.018242424	0.016779381	0.020074674	0.752563482	0.013493378	1.240968759	0.009034074	0.006825745	3.34304E-05	3.31242E-05	94553.25	125395.75	503.55	1543311
Los Angeles (SC)	2022	OFF - ConstMin - Rollers	Aggregate	25	Diesel	0.001787409	0.002127164	0.002573868	0.011247725	0.01618842	2.174058648	0.00061928	0.000569737	3.09018E-05	1.82112E-05	72390.45	189314.55	272.14	2262098
Los Angeles (SC)	2022	OFF - ConstMin - Rollers	Aggregate	50	Gasoline	0.001051829	0.000967473	0.001157474	0.07388267	0.001385868	0.376129795	2.59301E-05	1.95916E-05	4.57305E-06	6.58265E-06	18790.2	6927.7	11.14	256324.9
Los Angeles (SC)	2022	OFF - ConstMin - Rollers	Aggregate	100	Gasoline	0.002072959	0.001906708	0.002281165	0.08494325	0.005027845	1.417256346	9.88145E-05	7.46599E-05	1.36927E-05	2.06597E-05	58973.05	13030.5	20.97	977287.5
Los Angeles (SC)	2022	OFF - ConstMin - Rough Terrain Forklifts	Aggregate	50	Gasoline	0.000146988	0.0001352	0.000161752	0.0097505	0.000211779	0.064576002	4.45181E-06	3.36359E-06	7.85126E-07	1.06642E-06	3044.1	927.1	2.23	43573.7
Los Angeles (SC)	2022	OFF - ConstMin - Rough Terrain Forklifts	Aggregate	100	Gasoline	0.001923485	0.001769221	0.002116678	0.074648977	0.005147596	1.639735865	0.000114326	8.63799E-05	1.58421E-05	2.33871E-05	66758.5	13096.2	31.68	1113177
Los Angeles (SC)	2022	OFF - ConstMin - Rough Terrain Forklifts	Aggregate	175	Gasoline	7.43031E-05	6.8344E-05	8.17661E-05	0.003368796	0.000332596	0.093808599	6.72508E-06	5.08117E-06	9.3189E-07	1.31832E-06	3763.15	459.9	1.13	65305.8
Los Angeles (SC)	2022	OFF - ConstMin - Rubber Tired Loaders	Aggregate	25	Diesel	8.25631E-05	9.82569E-05	0.000118891	0.00040579	0.000751295	0.098551576	2.80724E-05	2.58266E-05	1.25043E-06	8.24566E-07	3277.7	4252.25	4.44	106306.3
Los Angeles (SC)	2022	OFF - ConstMin - Rubber Tired Loaders	Aggregate	50	Gasoline	0.000350233	0.000322145	0.00038541	0.024792115	0.000474529	0.145997854	1.0065E-05	7.60464E-06	1.77507E-06	2.46785E-06	7044.5	2857.95	5.55	114318
Los Angeles (SC)	2022	OFF - ConstMin - Rubber Tired Loaders	Aggregate	100	Gasoline	0.002105536	0.001936672	0.002317014	0.087930684	0.005322751	1.725362168	0.000120296	9.08906E-05	1.66694E-05	2.48102E-05	70820.95	18976.35	37.03	1366297
Los Angeles (SC)	2022	OFF - ConstMin - Signal Boards	Aggregate	25	Gasoline	0.000911569	0.000838461	0.001003126	0.03748409	0.000724936	0.064129525	0.000465869	0.00035199	1.84342E-06	1.68019E-06	4796.1	8322	31.37	65064.9
Los Angeles (SC)	2022	OFF - ConstMin - Signal Boards	Aggregate	25	Diesel	0.004575144	0.005444799	0.006588207	0.034557828	0.041257858	5.6597151	0.001612167	0.001483194	8.80702E-05	4.74741E-05	188712.3	670256.8	892.9	4021541
Los Angeles (SC)	2022	OFF - ConstMin - Signal Boards	Aggregate	50	Diesel	9.40451E-05	0.000111921	0.000135425	0.000896274	0.000804407	0.117779024	3.20022E-05	2.9442E-05	1.52259E-06	9.92602E-07	3945.65	2376.15	4.45	87917.55
Los Angeles (SC)	2022	OFF - ConstMin - Skid Steer Loaders	Aggregate	25	Gasoline	0.059974792	0.055164814	0.0659986	2.507104082	0.042772217	3.996753931	0.030154345	0.022783283	0.000101434	0.000108487	309676.95	280736.1	879.3	5313290
Los Angeles (SC)	2022	OFF - ConstMin - Skid Steer Loaders	Aggregate	25	Diesel	0.008131908	0.009677643	0.011709948	0.03967471	0.073866587	9.597315895	0.00290508	0.002672674	0.000121772	8.02768E-05	319104.9	508357.4	609.03	10167148
Los Angeles (SC)	2022	OFF - ConstMin - Skid Steer Loaders	Aggregate	50	Gasoline	0.002471572	0.002273352	0.002719814	0.193732709	0.003859408	2.072080987	0.000142847	0.000107929	2.51927E-05	3.16231E-05	90268.15	47194.5	152.11	1510224
Los Angeles (SC)	2022	OFF - ConstMin - Skid Steer Loaders	Aggregate	100	Gasoline	0.00142068	0.001306741	0.001563372	0.074549864	0.003580415	3.064191196	0.000213643	0.000161419	2.96044E-05	4.22323E-05	120552.2	28236.4	90.99	2258912
Los Angeles (SC)	2022	OFF - ConstMin - Surfacing Equipment	Aggregate	25	Gasoline	0.040790229	0.037518853	0.044887159	1.532584283	0.031588862	2.657295715	0.018604806	0.014056964	7.672E-05	6.93825E-05	198052.65	537371.25	1255.97	4181495
Los Angeles (SC)	2022	OFF - ConstMin - Tampers/Rammers	Aggregate	25	Gasoline	0.004684694	0.004308981	0.00515522	0.218510782	0.003969541	0.412626514	0.003113147	0.002352156	1.65022E-05	1.02742E-05	29327.75	137064.8	752.41	578517.7
Los Angeles (SC)	2022	OFF - ConstMin - Tractors/Loaders/Backhoes	Aggregate	25	Diesel	0.00153392	0.001825492	0.002208845	0.007539084	0.013958132	1.830966387	0.000521374	0.000479664	2.32315E-05	1.53132E-05	60871.05	84333.25	89.44	1939665
Los Angeles (SC)	2022	OFF - ConstMin - Tractors/Loaders/Backhoes	Aggregate	100	Gasoline	0.001005815	0.000925149	0.001106839	0.069708145	0.002591173	1.208814695	8.42815E-05	6.36793E-05	1.16788E-05	1.75256E-05	50026.9	17092.95	19.6	1076856
Los Angeles (SC)	2022	OFF - ConstMin - Trenchers	Aggregate	25	Gasoline	0.036964928	0.034000341	0.040677648	1.527946	0.027686063	2.48469349	0.01874629	0.014163864	6.597E-05	6.67894E-05	190650.45	196107.2	451.47	2902790
Los Angeles (SC)	2022	OFF - ConstMin - Trenchers	Aggregate	25	Diesel	0.000722803	0.000860195	0.001040836	0.003916099	0.006565977	0.868756379	0.000247465	0.000227668	1.15126E-05	7.27143E-06	28904.35	30214.7	48.84	674877.7
Los Angeles (SC)	2022	OFF - ConstMin - Trenchers	Aggregate	50	Gasoline	0.004300401	0.003955509	0.004732329	0.284163503	0.006230829	1.912429271	0.000131841	9.96133E-05	2.32517E-05	3.14939E-05	89899.5	40825.25	101.5	1224758
Los Angeles (SC)	2022	OFF - ConstMin - Trenchers	Aggregate	100	Gasoline	0.001598334	0.001470148	0.00175887	0.061798831	0.004304213	1.380596958	9.62585E-05	7.27287E-05	1.33385E-05	1.967E-05	56147.95	13548.8	33.68	894220.8
Los Angeles (SC)	2022	OFF - Industrial - Aerial Lifts	Aggregate	25	Gasoline	0.019406411	0.017850017	0.021355571	0.803210765	0.013843956	1.279538548	0.009653747	0.007293942	3.24934E-05	3.47546E-05	99207	113701.15	302.95	2144707
Los Angeles (SC)	2022	OFF - Industrial - Aerial Lifts	Aggregate	25	Diesel	0.002094149	0.00249221	0.003015574	0.011958552	0.018941225	2.499987493	0.000746382	0.000686672	3.40609E-05	2.09309E-05	83201.75	181138.55	453.6	3166422
Los Angeles (SC)	2022	OFF - Industrial - Aerial Lifts	Aggregate	25	Nat Gas	0	0	0.001753114	0.466840539	0.01284707	2.746516514	0	0	0	0	183598.65	155347.65	413.89	2930362
Los Angeles (SC)	2022	OFF - Industrial - Aerial Lifts	Aggregate	50	Gasoline	0.006002052	0.005520688	0.006604893	0.494758157	0.009066204	4.693520604	0.000323567	0.000244473	5.70646E-05	7.28234E-05	207874.8	130706.5	361.73	4313315
Los Angeles (SC)	2022	OFF - Industrial - Aerial Lifts	Aggregate	100	Gasoline	0.004732311	0.00435278	0.00520762	0.26297507	0.011956185	9.42221158	0.000656939	0.000496354	9.10317E-05	0.000130581	372745.3	130706.5	361.73	8757336
Los Angeles (SC)	2022	OFF - Industrial - Forklifts	Aggregate	25	Gasoline	0.000572411	0.000526504	0.000629904	0.03539314	0.000482367	0.055950104	2.81418E-05	2.12627E-05	1.41803E-06	1.51012E-06	4310.65	6252.45	6.94	143806.4
Los Angeles (SC)	2022	OFF - Industrial - Forklifts	Aggregate	25	Nat Gas	0	0	8.45255E-05	0.01339134	0.0003739	0.069832605	0	0	0	0	4869.1	4967.65	3.98	114256
Los Angeles (SC)	2022	OFF - Industrial - Forklifts	Aggregate	50	Gasoline	0.152028765	0.139836058	0.167298382	17.96620048	0.354481306	63.2442589	0.004360003	0.003294224	0.000768935	0.001220504	3483932.3	2173582.3	1206.5	89116874
Los Angeles (SC)	2022	OFF - Industrial - Forklifts	Aggregate	50	Nat Gas	0	0	0.011746663	1.94967246	0.509873043	121.4244081	0	0	0	0	6468471.6	4845123.15	2689.41	1.99E+08
Los Angeles (SC)	2022	OFF - Industrial - Forklifts	Aggregate	100	Gasoline	0.320911315	0.295174228	0.353143327	30.5537786	1.600395671	374.6708437	0.026122948	0.019737338	0.003619843	0.005618338	16037567.1	7627777.3	4233.99	5.34E+08
Los Angeles (SC)	2022	OFF - Industrial - Forklifts	Aggregate	100	Nat Gas	0	0	0.069676079	32.86723426	3.29680423	727.593285	0	0	0	0	40482310.6	17004860.9	9438.97	1.19E+09
Los Angeles (SC)	2022	OFF - Industrial - Forklifts	Aggregate	175	Gasoline	0.016754958	0.01541121	0.018437809	1.171214713	0.098957115	27.77684295	0.001991304	0.001504541	0.000275934	0.000393354	1122831.25	278776.05	154.76	40701303
Los Angeles (SC)	2022	OFF - Industrial - Forklifts	Aggregate	175	Nat Gas	0	0	0.003195762	1.925288997	0.163953967	55.53477681	0	0	0	0	3038296.5	622284.85	345.41	90853588
Los Angeles (SC)	2022	OFF - Industrial - Other General Industrial Equipment	Aggregate	25	Gasoline	0.01603024	0.014744615	0.017640301	0.981756369	0.013003237	1.623211379	0.000782774	0.000591429	4.4994E-05	4.28397E-05	122285.95	219430.7	565.48	2317728
Los Angeles (SC)	2022	OFF - Industrial - Other General Industrial Equipment	Aggregate	25	Diesel	0.002558538	0.003044871	0.003684294	0.014497832	0.023833493	3.15916361	0.000899886	0.000827896	4.22363E-05	2.64366E-05	105087.15	200315.65	140.45	3609178
Los Angeles (SC)	2022	OFF - Industrial - Other General Industrial Equipment	Aggregate	50	Gasoline	0.004717755	0.004339391	0.005191602	0.454137759	0.010552856	3.159926474	0.000217843	0.000164592	3.8419E-05	5.15884E-05	147259.25	82460.8	115.54	2473824
Los Angeles (SC)	2022	OFF - Industrial - Other General Industrial Equipment	Aggregate	100	Gasoline	0.001459438	0.001342391	0.001606022	0.106566833	0.008702252	2.703788015	0.000188515	0.000142433	2.61224E-05	3.81264E-05	108832.05	27101.25	37.96	2140999
Los Angeles (SC)	2022	OFF - Industrial - Other General Industrial Equipment	Aggregate	175	Gasoline	0.000204819	0.000188392	0.00022539	0.019792405	0.001752166	0.560495458	4.01816E-05	3.03594E-05	5.56794E-06	7.84982E-06	22407.35	2620.7	3.69	456001.8
Los Angeles (SC)	2022	OFF - Industrial - Other Material Handling Equipment	Aggregate	50	Gasoline	6.69218E-05	6.15547E-05	7.36434E-05	0.00495915	0.000132434	0.032433438	2.23593E-06	1.68937E-06	3.94331E-07	5.38325E-07	1536.65	631.45	1.63	25889.45
Los Angeles (SC)	2022	OFF - Industrial - Other Material Handling Equipment	Aggregate	100	Gasoline	0.001833555	0.001686504	0.002017716	0.08357112	0.00797212	1.869000785	0.000130311	9.84574E-05	1.80572E-05	2.66042E-05	75941.9	27922.5	72.25	1507815
Los Angeles (SC)	2022	OFF - Industrial - Sweepers/Scrubbers	Aggregate	25	Gasoline	0.012236474	0.011255109	0.013465493	0.789061308	0.010009873	1.280330008	0.000598749	0.000452388	3.37189E-05	3.40743E-05	97265.2	107463.3	397.68	1390380
Los Angeles (SC)	2022	OFF - Industrial - Sweepers/Scrubbers	Aggregate	25	Diesel	0.000509532	0.000606385	0.000733726	0.00312801	0.004815514	0.642314221	0.000182963	0.000168326	8.84794E-06	5.37529E-06	21367.1	29743.85	45.73	550244.8
Los Angeles (SC)	2022	OFF - Industrial - Sweepers/Scrubbers	Aggregate	50	Gasoline	0.013067646	0.012019621	0.014380147	1.132702325	0.02860665	10.21384588	0.000704133	0.000532012	0.000124182	0.000159642	455698.85	173750.95	336.42	6081283
Los Angeles (SC)	2022	OFF - Industrial - Sweepers/Scrubbers	Aggregate	100	Gasoline	0.007626747	0.007015081	0.008392769	0.484160094	0.048652124	16.38267041	0.001142239	0.000863025	0.000158279	0.000227572	649605.1	145069.25	280.9	9864709
Los Angeles (SC)	2022	OFF - Industrial - Sweepers/Scrubbers	Aggregate	175	Gasoline	5.90507E-05	5.43149E-05	6.49817E-05	0.006441711	0.00057687	0.190718613	1.36725E-05	1.03303E-05	1.89459E-06	2.66605E-06	7610.25	839.5	1.61	117530
Los Angeles (SC)	2022	OFF - Light Commercial - Air Compressors	Aggregate	25	Gasoline	0.123470157	0.113567851	0.135871376	2.849451207	0.074080967	6.256102445	0.023826891	0.01800254	0.000195411	0.000149079	425546.2	1397595.95	2891.18	8613821
Los Angeles (SC)	2022	OFF - Light Commercial - Air Compressors	Aggregate	25	Diesel	0.000551612	0.000656463	0.000794321	0.002851114	0.004799882	0.609562811	0.000212879	0.000195848	8.08714E-06	5.10533E-06	20294	37040.2	45.5	739825.8
Los Angeles (SC)	2022	OFF - Light Commercial - Air Compressors	Aggregate	50	Gasoline	0.006592865	0.006064118	0.007255046	0.457015856	0.008893179	2.684916352	0.000185096	0.00013985	3.26437E-05	4.54584E-05	129761.15	57896.3	119.78	2026371
Los Angeles (SC)	2022	OFF - Light Commercial - Air Compressors	Aggregate	50	Diesel	0.007112015	0.008463885	0.010241301	0.060357714	0.049648765	6.818597923	0.002303633	0.002119342	8.81475E-05	5.75167E-05	228632.35	223693.9	274.81	8276674
Los Angeles (SC)	2022	OFF - Light Commercial - Air Compressors	Aggregate	100	Gasoline	0.021754229	0.02000954	0.023939202	0.884313892	0.055171003	17.21685213	0.0012004	0.000906969	0.000166339	0.000247743	707183.85	187770.6	388.45	13143942
Los Angeles (SC)	2022	OFF - Light Commercial - Air Compressors	Aggregate	175	Gasoline	0.001874249	0.001723934	0.002062497	0.079358803	0.007752527	2.156295865	0.000154583	0.000116796	2.14205E-05	3.03252E-05	86563.4	12629	26.12	1692286
Los Angeles (SC)	2022	OFF - Light Commercial - Gas Compressors	Aggregate	50	Nat Gas	0	0	0.000399358	0.07073168	0.014501151	4.8163885	0	0	0	0	255908.8	74854.2	8.81	2395334
Los Angeles (SC)	2022	OFF - Light Commercial - Gas Compressors	Aggregate	100	Nat Gas	0	0	0.002177712	1.1311117	0.08580756	27.065618	0	0	0	0	1497646.1	154697.95	18.2	13613420
Los Angeles (SC)	2022	OFF - Light Commercial - Gas Compressors	Aggregate	175	Nat Gas	0	0	0.000607357	0.23009892	0.0229617	7.0439156	0	0	0	0	384618.75	24951.4	2.93	3642904
Los Angeles (SC)	2022	OFF - Light Commercial - Gas Compressors	Aggregate	300	Nat Gas	0	0	0.000467244	0.26477137	0.022211681	7.2596606	0	0	0	0	398335.45	19961.85	2.35	4191989
Los Angeles (SC)	2022	OFF - Light Commercial - Gas Compressors	Aggregate	600	Nat Gas	0	0	0.000658036	0.37288635	0.03128144	10.224023	0	0	0	0	560986.75	17465.25	2.06	5903255
Los Angeles (SC)	2022	OFF - Light Commercial - Generator Sets	Aggregate	25	Gasoline	0.918826239	0.845136375	1.011112228	49.08824524	0.649133231	82.53630555	0.054575527	0.041234842	0.002260838	0.002166716	6184899.45	8725135.2	75938.47	93588482
Los Angeles (SC)	2022	OFF - Light Commercial - Generator Sets	Aggregate	25	Diesel	0.013135511	0.015632343	0.018915136	0.081889049	0.124948236	15.94006069	0.005420467	0.004986829	0.000222481	0.000133516	530735.55	872813.55	2585.49	12550675
Los Angeles (SC)	2022	OFF - Light Commercial - Generator Sets	Aggregate	50	Gasoline	0.033311505	0.030639922	0.036657279	2.044627657	0.069542913	23.3062547	0.001606712	0.00121396	0.000283362	0.000353227	1008286.95	452764.25	3941.99	14488456
Los Angeles (SC)	2022	OFF - Light Commercial - Generator Sets	Aggregate	50	Diesel	0.013626971	0.016217222	0.019622839	0.129765523	0.127366359	18.87225236	0.005022254	0.004620474	0.000243971	0.00015841	629690.7	450289.55	1333.85	14859555
Los Angeles (SC)	2022	OFF - Light Commercial - Generator Sets	Aggregate	100	Gasoline	0.007699397	0.007081905	0.008472716	0.287864015	0.042764424	11.54382718	0.000804863	0.000608119	0.000111529	0.000159377	454943.3	87446.7	761.3	7258076
Los Angeles (SC)	2022	OFF - Light Commercial - Generator Sets	Aggregate	100	Nat Gas	0	0	3.60248E-05	0.023522558	0.002647235	0.748459148	0	0	0	0	40730.35	6515.25	56.63	540765.8
Los Angeles (SC)	2022	OFF - Light Commercial - Generator Sets	Aggregate	175	Gasoline	0.000756635	0.000695953	0.000832631	0.060511056	0.007492757	1.865975146	0.000133771	0.000101071	1.85365E-05	2.6025E-05	74288.45	8267.25	71.93	1207019
Los Angeles (SC)	2022	OFF - Light Commercial - Generator Sets	Aggregate	175	Nat Gas	0	0	4.01334E-05	0.028188461	0.003665782	1.091454273	0	0	0	0	58878.15	5391.05	46.98	787093.3
Los Angeles (SC)	2022	OFF - Light Commercial - Pressure Washers	Aggregate	25	Gasoline	0.097978642	0.090120755	0.107819518	3.576015598	0.050422684	6.952024785	0.009624119	0.007271556	0.000208236	0.000172013	491012.6	910842.9	7927.42	6306525
Los Angeles (SC)	2022	OFF - Light Commercial - Pressure Washers	Aggregate	25	Diesel	7.15479E-05	8.51479E-05	0.000103029	0.000515023	0.000702612	0.090046462	3.08591E-05	2.83903E-05	1.33548E-06	7.5019E-07	2982.05	12362.55	85.45	174707.3
Los Angeles (SC)	2022	OFF - Light Commercial - Pressure Washers	Aggregate	50	Gasoline	0.000293691	0.000270137	0.000323189	0.019159988	0.000498791	0.235974539	1.62679E-05	1.22913E-05	2.86902E-06	3.54578E-06	10121.45	4036.9	35.24	117070.1
Los Angeles (SC)	2022	OFF - Light Commercial - Pressure Washers	Aggregate	50	Diesel	4.64988E-05	5.53374E-05	6.69583E-05	0.000529872	0.000587684	0.090681362	1.97256E-05	1.81476E-05	1.17228E-06	7.58454E-07	3014.9	4628.2	32	175871.6
Los Angeles (SC)	2022	OFF - Light Commercial - Pumps	Aggregate	25	Gasoline	0.30616745	0.28161282	0.336918602	10.3411768	0.210332623	19.20291039	0.119395621	0.090210025	0.000585525	0.000486752	1389434.55	3867331.95	17522.88	21458737
Los Angeles (SC)	2022	OFF - Light Commercial - Pumps	Aggregate	25	Diesel	0.007283071	0.008667456	0.010487622	0.043898857	0.064197013	8.18312626	0.002916724	0.002683386	0.000117005	6.85942E-05	272665.95	586277.6	1456.62	6443166
Los Angeles (SC)	2022	OFF - Light Commercial - Pumps	Aggregate	50	Gasoline	0.005055136	0.004649714	0.005562869	0.362263357	0.007989612	3.518616495	0.00024257	0.000183275	4.278E-05	5.4445E-05	155413.35	69539.8	315.05	2155734
Los Angeles (SC)	2022	OFF - Light Commercial - Pumps	Aggregate	50	Diesel	0.008752385	0.010416062	0.012603434	0.079786895	0.075542168	11.04566679	0.003119806	0.002870222	0.000142793	9.2805E-05	368905.5	235052.7	583.96	8696950
Los Angeles (SC)	2022	OFF - Light Commercial - Pumps	Aggregate	100	Gasoline	0.008394444	0.007721209	0.009237573	0.374730482	0.02358863	13.22895811	0.000922355	0.00069689	0.00012781	0.000183548	523939.25	88132.9	399.29	8196360
Los Angeles (SC)	2022	OFF - Light Commercial - Pumps	Aggregate	175	Gasoline	0.000285738	0.000262822	0.000314437	0.020040927	0.00118534	0.600575877	4.30549E-05	3.25304E-05	5.96609E-06	8.38943E-06	23947.65	2657.2	12.05	382636.8
Los Angeles (SC)	2022	OFF - Light Commercial - Welders	Aggregate	25	Gasoline	0.299021185	0.275039686	0.329054574	12.45672976	0.217196823	20.01892658	0.151036966	0.114116819	0.000517002	0.000541224	1544924.55	1927805.9	9279.76	30266180
Los Angeles (SC)	2022	OFF - Light Commercial - Welders	Aggregate	25	Diesel	0.00645493	0.0076819	0.009295099	0.036167103	0.056536814	7.193540867	0.002538619	0.002335529	9.92199E-05	6.02714E-05	239582.35	612229.1	953.34	9313902
Los Angeles (SC)	2022	OFF - Light Commercial - Welders	Aggregate	50	Gasoline	0.012382307	0.011389246	0.013625974	0.760002426	0.0198276	7.059961493	0.000486707	0.000367735	8.58363E-05	0.00011006	314166.45	130038.55	625.96	5851735
Los Angeles (SC)	2022	OFF - Light Commercial - Welders	Aggregate	50	Diesel	0.030516473	0.036317125	0.043943721	0.259942221	0.223387842	31.33719985	0.010178246	0.009363986	0.000405112	0.000264009	1049451.65	882073.6	1373.5	40575386
Los Angeles (SC)	2022	OFF - Light Commercial - Welders	Aggregate	100	Gasoline	0.009708706	0.008930068	0.010683839	0.35006834	0.029348931	11.08288617	0.000772725	0.000583837	0.000107076	0.000154676	441522.25	132721.3	638.91	9290491
Los Angeles (SC)	2022	OFF - Light Commercial - Welders	Aggregate	175	Gasoline	0.000805416	0.000740822	0.000886311	0.046242084	0.004107793	1.379902004	9.89243E-05	7.47428E-05	1.37079E-05	1.92915E-05	55067.55	9150.55	44.05	1189572
Los Angeles (SC)	2022	OFF - Military - A/C unit	Aggregate	100	Diesel	6.22752E-05	7.41126E-05	8.96762E-05	0.001017529	0.00082691	0.173547776	1.44803E-05	3.81619E-05	2.0358E-06	1.44988E-06	5763.35	1660.75	5.54	167735.8
Los Angeles (SC)	2022	OFF - Military - A/C unit	Aggregate	300	Diesel	3.13555E-05	3.73156E-05	4.51519E-05	0.00026507	0.000410033	0.149208051	1.21934E-05	1.1218E-05	1.67885E-06	1.23869E-06	4923.85	697.15	2.31	145007.2
Los Angeles (SC)	2022	OFF - Military - A/C unit	Aggregate	600	Diesel	1.80575E-05	2.14899E-05	2.60027E-05	0.000155774	0.000225973	0.089334647	7.07806E-06	6.51181E-06	8.76849E-07	7.39171E-07	2938.25	273.75	0.9	86231.25
Los Angeles (SC)	2022	OFF - Military - Aircraft Support	Aggregate	100	Diesel	1.13979E-05	1.35644E-05	1.64129E-05	0.000186232	0.000151345	0.03176343	7.59189E-06	6.98454E-06	3.72601E-07	2.68122E-07	1065.8	456.25	1.49	31025
Los Angeles (SC)	2022	OFF - Military - Aircraft Support	Aggregate	175	Diesel	2.52435E-05	3.00418E-05	3.63506E-05	0.000478	0.000307688	0.093421849	1.35311E-05	1.24486E-05	1.05116E-06	7.80492E-07	3102.5	649.7	2.16	90958
Los Angeles (SC)	2022	OFF - Military - Cart	Aggregate	100	Diesel	5.81865E-06	6.92468E-06	8.37886E-06	9.50724E-05	7.7262E-05	0.016215365	3.87569E-06	3.56564E-06	1.90215E-07	1.34979E-07	536.55	189.8	0.65	15373.8
Los Angeles (SC)	2022	OFF - Military - Cart	Aggregate	175	Diesel	2.06906E-06	2.46236E-06	2.97945E-06	3.9179E-05	2.52194E-05	0.007657255	1.10906E-06	1.02034E-06	8.61573E-08	6.33575E-08	251.85	58.4	0.16	8935.2
Los Angeles (SC)	2022	OFF - Military - Cart	Aggregate	300	Diesel	6.90634E-06	8.21912E-06	9.94513E-06	5.83841E-05	9.03137E-05	0.032864472	2.68572E-06	2.47086E-06	3.69782E-07	2.72713E-07	1084.05	160.6	0.52	31638.2
Los Angeles (SC)	2022	OFF - Military - Communications	Aggregate	50	Diesel	1.74178E-06	2.07286E-06	2.50816E-06	1.77334E-05	1.80029E-05	0.002669196	6.81207E-07	6.2671E-07	3.4506E-08	1.65281E-08	65.7	58.4	0.17	2336
Los Angeles (SC)	2022	OFF - Military - Communications	Aggregate	100	Diesel	2.87341E-06	3.41959E-06	4.13771E-06	4.69493E-05	3.81541E-05	0.008007587	1.91392E-06	1.76081E-06	9.39331E-08	6.61122E-08	262.8	87.6	0.32	7008
Los Angeles (SC)	2022	OFF - Military - Compressor (Military)	Aggregate	50	Diesel	2.13368E-06	2.53925E-06	3.07249E-06	2.17234E-05	2.20536E-05	0.003269765	8.34478E-07	7.6772E-07	4.22699E-08	2.66285E-08	105.85	58.4	0.17	2861.6
Los Angeles (SC)	2022	OFF - Military - Compressor (Military)	Aggregate	100	Diesel	6.41788E-05	7.63781E-05	9.24175E-05	0.001048632	0.000852188	0.178852788	4.27483E-05	3.93284E-05	2.09803E-06	1.49763E-06	5953.15	2441.85	8.13	173371.3
Los Angeles (SC)	2022	OFF - Military - Compressor (Military)	Aggregate	175	Diesel	3.01119E-06	3.58356E-06	4.33611E-06	5.70186E-05	3.67027E-05	0.011143892	1.61406E-06	1.48494E-06	1.25388E-07	9.18225E-08	365	58.4	0.17	9752.8
Los Angeles (SC)	2022	OFF - Military - Compressor (Military)	Aggregate	300	Diesel	6.25427E-06	7.4431E-06	9.00615E-06	5.28717E-05	8.17866E-05	0.029761533	2.43214E-06	2.23757E-06	3.34868E-07	2.45166E-07	974.55	124.1	0.42	27674.3
Los Angeles (SC)	2022	OFF - Military - Compressor (Military)	Aggregate	600	Diesel	3.52179E-05	4.19122E-05	5.07138E-05	0.00030381	0.000440722	0.174231753	1.38045E-05	1.27002E-05	1.71014E-06	1.4462E-06	5748.75	456.25	1.49	170181.2
Los Angeles (SC)	2022	OFF - Military - Crane	Aggregate	100	Diesel	4.52161E-06	5.38108E-06	6.51111E-06	0.000157234	8.04231E-05	0.028026557	1.19913E-06	1.1032E-06	3.28766E-07	2.31393E-07	919.8	255.5	0.85	26827.5
Los Angeles (SC)	2022	OFF - Military - Crane	Aggregate	175	Diesel	8.97758E-07	1.06841E-06	1.29277E-06	3.50341E-05	8.49916E-06	0.007056686	2.30555E-07	2.12111E-07	7.93998E-08	5.96846E-08	237.25	32.85	0.16	4631.85
Los Angeles (SC)	2022	OFF - Military - Crane	Aggregate	300	Diesel	8.20878E-07	9.76913E-07	1.18207E-06	1.2078E-05	5.73966E-06	0.007140098	1.71052E-07	1.57368E-07	8.03384E-08	5.96846E-08	237.25	32.85	0.09	7029.9
Los Angeles (SC)	2022	OFF - Military - Deicer	Aggregate	100	Diesel	2.63396E-06	3.13463E-06	3.7929E-06	4.30369E-05	3.49746E-05	0.007340288	1.75443E-06	1.61407E-06	8.61053E-08	6.24393E-08	248.2	58.4	0.17	6424
Los Angeles (SC)	2022	OFF - Military - Generator (Military)	Aggregate	50	Diesel	1.11691E-05	1.32922E-05	1.60836E-05	0.000113715	0.000115444	0.017116217	4.36824E-06	4.01878E-06	2.2127E-07	1.44161E-07	573.05	434.35	1.45	16505.3
Los Angeles (SC)	2022	OFF - Military - Generator (Military)	Aggregate	100	Diesel	0.00033389	0.000397357	0.000480802	0.00545551	0.004433505	0.930481614	0.000222398	0.000204606	1.0915E-05	7.7792E-06	30922.8	10891.6	36.23	904002.8
Los Angeles (SC)	2022	OFF - Military - Generator (Military)	Aggregate	175	Diesel	0.000358489	0.000426632	0.000516224	0.006788205	0.004369549	1.326707105	0.000192158	0.000176785	1.49277E-05	1.10775E-05	44033.6	8770.95	29.16	1289330
Los Angeles (SC)	2022	OFF - Military - Generator (Military)	Aggregate	300	Diesel	0.000111795	0.000133045	0.000160985	0.000945081	0.001461935	0.531987393	4.34746E-05	3.99966E-05	5.98577E-06	4.41758E-06	17560.15	2314.1	7.7	516044.3
Los Angeles (SC)	2022	OFF - Military - Generator (Military)	Aggregate	600	Diesel	6.80619E-05	8.09993E-05	9.80092E-05	0.000587141	0.000851736	0.336719054	2.66785E-05	2.45442E-05	3.30501E-06	2.79508E-06	11110.6	938.05	3.12	326441.4
Los Angeles (SC)	2022	OFF - Military - Generator (Military)	Aggregate	750	Diesel	3.63917E-06	4.33091E-06	5.24041E-06	3.10635E-05	4.59173E-05	0.017814581	1.42587E-06	1.3118E-06	1.79121E-07	1.47834E-07	587.65	25.55	0.14	13669.25
Los Angeles (SC)	2022	OFF - Military - Hydraulic unit	Aggregate	100	Diesel	3.81026E-05	4.53452E-05	5.48677E-05	0.000622567	0.000505939	0.106183944	2.53794E-05	2.33491E-05	1.24559E-06	8.86087E-07	3522.25	1084.05	3.61	102984.8
Los Angeles (SC)	2022	OFF - Military - Lift (Military)	Aggregate	100	Diesel	1.13739E-06	1.35359E-06	1.63784E-06	1.85841E-05	1.51027E-05	0.00316967	7.57594E-07	6.96987E-07	3.71819E-08	2.57103E-08	102.2	25.55	0.14	2427.25
Los Angeles (SC)	2022	OFF - Military - Light	Aggregate	50	Diesel	2.72152E-06	3.23884E-06	3.919E-06	2.77084E-05	2.81296E-05	0.004170618	1.06439E-06	9.79234E-07	5.39157E-08	3.21379E-08	127.75	62.05	0.25	3102.5
Los Angeles (SC)	2022	OFF - Military - Other tactical support equipment	Aggregate	50	Diesel	5.44305E-07	6.47768E-07	7.83799E-07	5.54169E-06	5.62592E-06	0.000834124	2.12877E-07	1.95847E-07	1.07831E-08	0	0	0	0	0
Los Angeles (SC)	2022	OFF - Military - Other tactical support equipment	Aggregate	100	Diesel	7.56664E-06	9.00493E-06	1.0896E-05	0.000123633	0.000100472	0.021086646	5.04E-06	4.6368E-06	2.47357E-07	1.76299E-07	700.8	255.5	0.85	20184.5
Los Angeles (SC)	2022	OFF - Military - Other tactical support equipment	Aggregate	175	Diesel	1.06744E-05	1.27034E-05	1.53711E-05	0.000202126	0.000130108	0.039504096	5.72171E-06	5.26397E-06	4.44489E-07	3.30561E-07	1314	255.5	0.85	37814
Los Angeles (SC)	2022	OFF - Military - Other tactical support equipment	Aggregate	300	Diesel	4.58553E-06	5.45716E-06	6.60316E-06	3.87647E-05	5.99646E-05	0.021820674	1.78321E-06	1.64055E-06	2.4552E-07	1.8089E-07	719.05	87.6	0.32	19096.8
Los Angeles (SC)	2022	OFF - Military - Other tactical support equipment	Aggregate	600	Diesel	1.82092E-06	2.16704E-06	2.62212E-06	1.57083E-05	2.27872E-05	0.009008536	7.13754E-07	6.56653E-07	8.84217E-08	7.43763E-08	295.65	25.55	0.14	6898.5
Los Angeles (SC)	2022	OFF - Military - Other tactical support equipment	Aggregate	750	Diesel	2.13335E-06	2.53886E-06	3.07202E-06	1.821E-05	2.69176E-05	0.010443228	8.35869E-07	7.68999E-07	1.05004E-07	8.63132E-08	343.1	0	0	0
Los Angeles (SC)	2022	OFF - Military - Pressure Washers	Aggregate	175	Diesel	2.05554E-06	2.44626E-06	2.95998E-06	3.89229E-05	2.50546E-05	0.007607208	1.10181E-06	1.01367E-06	8.55941E-08	6.33575E-08	251.85	58.4	0.16	8876.8
Los Angeles (SC)	2022	OFF - Military - Pump (Military)	Aggregate	50	Diesel	2.46244E-05	2.9305E-05	3.54591E-05	0.000250706	0.000254517	0.037735757	9.63056E-06	8.86011E-06	4.87829E-07	3.17706E-07	1262.9	938.05	3.12	36583.95
Los Angeles (SC)	2022	OFF - Military - Pump (Military)	Aggregate	100	Diesel	2.69382E-05	3.20587E-05	3.8791E-05	0.00044015	0.000357695	0.075071128	1.7943E-05	1.65076E-05	8.80623E-07	6.27148E-07	2492.95	730	2.43	73000
Los Angeles (SC)	2022	OFF - Military - Start Cart	Aggregate	100	Diesel	5.98627E-07	7.12415E-07	8.62023E-07	9.78111E-06	7.94877E-06	0.001668247	3.98734E-07	3.66835E-07	1.95694E-08	1.46916E-08	58.4	0	0	0
Los Angeles (SC)	2022	OFF - Military - Start Cart	Aggregate	600	Diesel	9.54297E-07	1.13569E-06	1.37419E-06	8.23231E-06	1.19422E-05	0.00472114	3.7406E-07	3.44135E-07	4.63395E-08	3.76472E-08	149.65	0	0	0
Los Angeles (SC)	2022	OFF - Military - Test Stand	Aggregate	100	Diesel	1.81743E-05	2.16289E-05	2.6171E-05	0.000296954	0.000241325	0.050647988	1.21056E-05	1.11371E-05	5.94127E-07	4.23302E-07	1682.65	532.9	1.78	49026.8
Los Angeles (SC)	2022	OFF - Military - Test Stand	Aggregate	175	Diesel	1.28021E-06	1.52355E-06	1.8435E-06	2.42415E-05	1.56042E-05	0.004737822	6.86218E-07	6.31321E-07	5.33086E-08	3.85655E-08	153.3	25.55	0.14	3628.1
Los Angeles (SC)	2022	OFF - Military - Test Stand	Aggregate	300	Diesel	2.14097E-05	2.54793E-05	3.08299E-05	0.000180991	0.000279972	0.101879868	8.32573E-06	7.65967E-06	1.14632E-06	8.47522E-07	3368.95	500.05	1.67	98509.85
Los Angeles (SC)	2022	OFF - Military - Test Stand	Aggregate	600	Diesel	1.38795E-05	1.65177E-05	1.99864E-05	0.000119732	0.000173689	0.06866506	5.44039E-06	5.00516E-06	6.7397E-07	5.71136E-07	2270.3	189.8	0.65	65101.4
Los Angeles (SC)	2022	OFF - Military - Welder	Aggregate	50	Diesel	8.00128E-06	9.52219E-06	1.15218E-05	8.14628E-05	8.2701E-05	0.012261618	3.12929E-06	2.87895E-06	1.58512E-07	1.02841E-07	408.8	335.8	1.13	11753
Los Angeles (SC)	2022	OFF - Military - Welder	Aggregate	100	Diesel	2.15266E-05	2.56185E-05	3.09983E-05	0.000351729	0.000285838	0.059990173	1.43385E-05	1.31914E-05	7.03716E-07	5.02269E-07	1996.55	938.05	3.12	58159.1
Los Angeles (SC)	2022	OFF - Oil Drilling - Compressors (Workover)	Aggregate	25	Diesel	2.77353E-06	3.30073E-06	3.99388E-06	1.36575E-05	2.51614E-05	0.003199756	1.06985E-06	9.8426E-07	4.05988E-08	2.57103E-08	102.2	160.6	0.16	3854.4
Los Angeles (SC)	2022	OFF - Oil Drilling - Generator (Drilling)	Aggregate	50	Diesel	2.29923E-06	2.73627E-06	3.31089E-06	2.00375E-05	1.56408E-05	0.002074605	7.19086E-07	6.61559E-07	2.68195E-08	1.46916E-08	58.4	58.4	0	1927.2
Los Angeles (SC)	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	25	Diesel	8.56917E-07	1.03687E-06	1.23396E-06	1.46056E-05	9.90313E-06	0.001848787	4.92041E-08	4.52678E-08	1.70672E-08	1.50896E-08	59.98186794	82.99293074	0.052065829	2074.823
Los Angeles (SC)	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	50	Diesel	8.34689E-05	0.000100997	0.000120195	0.000301473	0.000212999	0.017950726	2.80137E-05	2.57726E-05	1.63459E-07	1.46511E-07	582.3915438	477.5998455	0.416526629	20146.77
Los Angeles (SC)	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	75	Diesel	6.09726E-06	7.37768E-06	8.78005E-06	7.92989E-05	7.2048E-05	0.01071673	4.32971E-06	3.98334E-06	9.88986E-08	8.74685E-08	347.6925115	191.0815909	0.208263314	13375.71
Los Angeles (SC)	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	100	Diesel	3.86318E-05	4.67445E-05	5.56298E-05	0.000360894	0.000418515	0.04743643	3.01968E-05	2.77811E-05	4.37414E-07	3.8717E-07	1539.022727	685.186304	0.520658286	58646.79
Los Angeles (SC)	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	175	Diesel	0.000237034	0.000286812	0.00034133	0.002944053	0.00214903	0.445863547	0.00013362	0.000122931	4.11512E-06	3.63908E-06	14465.55176	3876.405069	3.228081371	554162.4
Los Angeles (SC)	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	300	Diesel	0.000199736	0.00024168	0.00028762	0.001347869	0.002110615	0.605715977	6.85052E-05	6.30248E-05	5.59415E-06	4.94377E-06	19651.7878	3236.880496	2.499159771	754536.8
Los Angeles (SC)	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	600	Diesel	0.000283859	0.000343469	0.000408757	0.001808494	0.00344447	0.845175304	0.000111658	0.000102725	7.80555E-06	6.89821E-06	27420.78194	2406.482597	1.770238171	1049693
Los Angeles (SC)	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	750	Diesel	8.29958E-05	0.000100425	0.000119514	0.000411246	0.00079723	0.191065756	3.32812E-05	3.06187E-05	1.76401E-06	1.55945E-06	6198.918018	372.7392667	0.260329143	237633.1
Los Angeles (SC)	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	9999	Diesel	6.90504E-05	8.35509E-05	9.94325E-05	0.000331975	0.001400371	0.160004824	3.53572E-05	3.25287E-05	1.47725E-06	1.30594E-06	5191.180302	259.6002213	0.156197486	199652.3
Los Angeles (SC)	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	75	Diesel	5.52392E-07	6.68394E-07	7.95444E-07	5.03799E-06	7.18548E-06	0.000642616	5.30038E-07	4.87635E-07	5.92473E-09	5.24495E-09	20.84897308	10.83726027	0.054186301	801.9573
Los Angeles (SC)	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	175	Diesel	8.22534E-06	9.95266E-06	1.18445E-05	9.97324E-05	8.22011E-05	0.014805731	5.93356E-06	5.45888E-06	1.3664E-07	1.20842E-07	480.3556365	108.8602795	0.108372603	18477.8
Los Angeles (SC)	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	300	Diesel	8.91796E-05	0.000107907	0.000128419	0.000551078	0.000794018	0.211560081	2.9594E-05	2.72265E-05	1.9533E-06	1.72672E-06	6863.833828	1197.896564	2.167452055	260835.2
Los Angeles (SC)	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	600	Diesel	0.003910693	0.004731939	0.005631398	0.026447713	0.036350861	12.86212516	0.001171768	0.001078027	0.000118799	0.000104979	417297.4858	40802.88098	29.20641644	16058091
Los Angeles (SC)	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	750	Diesel	3.61584E-05	4.37517E-05	5.20681E-05	0.000210267	0.000291226	0.103006907	1.49172E-05	1.37238E-05	9.51265E-07	8.40729E-07	3341.945655	188.5141425	0.108372603	128540.5
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Compressor	Aggregate	50	Diesel	1.7119E-05	2.07139E-05	2.46513E-05	0.000366866	0.00036052	0.058646075	1.1059E-05	1.01743E-05	5.41698E-07	4.78661E-07	1902.707308	2628.408003	6.532392755	110573
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Compressor	Aggregate	75	Diesel	0.000209161	0.000253084	0.000301191	0.004142991	0.003479146	0.632599521	0.00010825	9.959E-05	5.84242E-06	5.16319E-06	20523.99477	20151.12802	50.08167779	1325969
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Compressor	Aggregate	100	Diesel	0.000474301	0.000573904	0.000682994	0.013572607	0.00745153	2.031715975	0.000528932	0.000486617	1.877E-05	1.65826E-05	65916.78726	50640.66086	125.8574337	4258605
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Compressor	Aggregate	175	Diesel	0.00065779	0.000795926	0.000947217	0.023579349	0.009338023	4.262055898	0.000343423	0.00031595	3.93851E-05	3.47863E-05	138277.7098	65534.97288	162.874326	8933539
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Compressor	Aggregate	300	Diesel	0.000410497	0.000496702	0.000591116	0.004863171	0.004335135	2.556211401	0.000166295	0.000152991	2.36211E-05	2.08635E-05	82933.46374	19099.76482	47.46872068	5357981
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Compressor	Aggregate	600	Diesel	0.000640343	0.000774815	0.000922093	0.006693631	0.007504997	3.498224244	0.000285608	0.000262759	3.23236E-05	2.8552E-05	113496.033	15244.76642	37.88787798	7332499
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Compressor	Aggregate	750	Diesel	0.000263989	0.000319427	0.000380145	0.002180164	0.004695179	1.145400995	0.000149013	0.000137092	1.05819E-05	9.34861E-06	37161.27384	3504.544004	8.709857006	2400833
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Compressor	Aggregate	9999	Diesel	1.15204E-05	1.39397E-05	1.65894E-05	0.000143713	0.000232283	0.074494809	2.69988E-06	2.48389E-06	6.88396E-07	6.08017E-07	2416.902027	175.2272002	0.43549285	156145.8
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Generator	Aggregate	50	Diesel	9.52313E-05	0.00011523	0.000137133	0.001338408	0.00097566	0.137828393	4.03782E-05	3.71479E-05	1.27143E-06	1.12494E-06	4471.690415	5261.429728	3.919435653	259865.7
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Generator	Aggregate	75	Diesel	0.002662581	0.003221723	0.003834116	0.038903586	0.029395826	5.273832985	0.000782815	0.000720189	4.86793E-05	4.30443E-05	171103.7031	167196.5447	124.5509552	11054288
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Generator	Aggregate	100	Diesel	0.002697826	0.003264369	0.003884869	0.061899504	0.030882702	8.406805937	0.00240133	0.002209224	7.76442E-05	6.86152E-05	272749.5602	182396.2306	135.8737693	17621197
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Generator	Aggregate	175	Diesel	0.005777977	0.006991352	0.008320286	0.115261042	0.052569949	18.22620959	0.002593305	0.002385841	0.000168337	0.00014876	591329.2974	272425.1392	202.9396682	38203288
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Generator	Aggregate	300	Diesel	0.006837216	0.008273031	0.009845591	0.045503114	0.053743777	19.93444712	0.002326252	0.002140152	0.000184099	0.000162702	646751.183	168365.7513	125.4219409	41783862
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Generator	Aggregate	600	Diesel	0.011196376	0.013547615	0.016122781	0.083847561	0.072660681	40.99885681	0.003275955	0.003013879	0.000378719	0.000334627	1330162.757	213964.8089	159.3903832	85936197
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Generator	Aggregate	750	Diesel	0.003581367	0.004333454	0.005157168	0.021839505	0.028623607	10.24798025	0.001390944	0.001279669	9.46402E-05	8.36426E-05	332484.4329	30983.97506	23.08112107	21480415
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Generator	Aggregate	9999	Diesel	0.022317271	0.027003898	0.032136871	0.145139826	0.347272103	67.00417957	0.009887614	0.009096605	0.000618817	0.000546879	2173876.814	111074.6276	82.74364156	1.4E+08
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	50	Diesel	1.51621E-05	1.83461E-05	2.18334E-05	0.000298564	0.000306314	0.050108851	9.72815E-06	8.9499E-06	4.62826E-07	4.08982E-07	1625.726491	2047.430212	6.532392755	94476.7
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	75	Diesel	0.000316234	0.000382643	0.000455377	0.008353344	0.00682921	1.351392385	0.000150019	0.000138017	1.24848E-05	1.10299E-05	43844.43763	39583.65077	126.2929266	2832604
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	100	Diesel	0.000606803	0.000734232	0.000873796	0.019272824	0.012127637	3.041442568	0.000763382	0.000702311	2.81014E-05	2.48238E-05	98676.25456	70977.58068	226.4562822	6375056
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	175	Diesel	0.001700664	0.002057803	0.002448956	0.054208552	0.027242517	9.837405131	0.001041078	0.000957792	9.09007E-05	8.02916E-05	319163.7755	148097.452	472.5097426	20619823
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	300	Diesel	0.000636326	0.000769954	0.000916309	0.006528073	0.007996559	3.301424336	0.00029493	0.000271336	3.05042E-05	2.69458E-05	107111.0767	29073.50901	92.75997712	6919994
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	600	Diesel	0.000803037	0.000971675	0.001156373	0.0081956	0.009952974	4.341756261	0.000347872	0.000320043	4.01176E-05	3.54368E-05	140863.5003	20474.30212	65.32392755	9100596
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	750	Diesel	0.000354384	0.000428805	0.000510313	0.003568171	0.005400522	1.901922167	0.000204182	0.000187848	1.75736E-05	1.55232E-05	61705.7701	5732.804594	18.29069971	3986549
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	9999	Diesel	0.00383496	0.004640302	0.005522343	0.032151567	0.093064271	16.78073343	0.001991417	0.001832103	0.000155031	0.000136962	544432.4155	14468.50683	46.16224213	35173479
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Pump	Aggregate	50	Diesel	3.74022E-06	4.52566E-06	5.38591E-06	6.38568E-05	5.92869E-05	0.010148438	2.1435E-06	1.97202E-06	9.37151E-08	8.28302E-08	329.254887	410.3614391	1.306478551	19134.16
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Pump	Aggregate	75	Diesel	0.000206798	0.000250225	0.000297788	0.004803434	0.00408848	0.76436972	0.000126991	0.000116832	7.06077E-06	6.23868E-06	24799.13377	22569.87915	71.8563203	1602167
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Pump	Aggregate	100	Diesel	0.00031145	0.000376855	0.000448488	0.009263085	0.006291224	1.465582919	0.000377416	0.000347223	1.35407E-05	1.19619E-05	47549.22375	33239.27657	105.8247626	3071954
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Pump	Aggregate	175	Diesel	0.000438516	0.000530605	0.000631464	0.014115326	0.006921256	2.55885341	0.000271031	0.000249349	2.36437E-05	2.0885E-05	83019.18082	38437.18813	122.3734909	5363519
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Pump	Aggregate	300	Diesel	0.00028199	0.000341208	0.000406066	0.003578584	0.003027055	1.887325129	0.000108286	9.96227E-05	1.74408E-05	1.54041E-05	61232.1853	16414.45757	52.25914204	3955953
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Pump	Aggregate	600	Diesel	0.000579443	0.000701126	0.000834398	0.006560378	0.008750489	3.569898709	0.000330547	0.000304103	3.29881E-05	2.9137E-05	115821.4321	18329.47761	58.35604194	7482733
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Pump	Aggregate	750	Diesel	0.000291103	0.000352235	0.000419189	0.0033206	0.005339611	1.81030663	0.00021599	0.00019871	1.67284E-05	1.47755E-05	58733.40492	5471.485855	17.41971401	3794517
Los Angeles (SC)	2022	Portable Equipment - Non-Rental Pump	Aggregate	9999	Diesel	0.000170661	0.0002065	0.000245752	0.00195637	0.003900492	1.032751127	6.56542E-05	6.04019E-05	9.54318E-06	8.42918E-06	33506.47293	1641.445757	5.225914204	2164712
Los Angeles (SC)	2022	Portable Equipment - Rental Compressor	Aggregate	50	Diesel	1.42836E-05	1.72832E-05	2.05684E-05	0.00032933	0.000259193	0.055649044	3.89529E-06	3.58367E-06	5.14075E-07	4.542E-07	1805.47196	2066.528963	3.919435653	104922.3
Los Angeles (SC)	2022	Portable Equipment - Rental Compressor	Aggregate	75	Diesel	5.95618E-05	7.20697E-05	8.57689E-05	0.001070941	0.000861911	0.16129433	1.59057E-05	1.46333E-05	1.48946E-06	1.31646E-06	5233.016905	5281.129571	10.01633556	338083.1
Los Angeles (SC)	2022	Portable Equipment - Rental Compressor	Aggregate	100	Diesel	3.38774E-05	4.09917E-05	4.87835E-05	0.001014445	0.000532682	0.149943568	3.61187E-05	3.32292E-05	1.38529E-06	1.22382E-06	4864.753928	3673.829267	6.967885605	314291.2
Los Angeles (SC)	2022	Portable Equipment - Rental Compressor	Aggregate	175	Diesel	0.000546983	0.00066185	0.000787656	0.019302514	0.008579985	3.507385502	0.000258595	0.000237907	3.24111E-05	2.86268E-05	113793.2599	52581.68138	99.72786272	7351702
Los Angeles (SC)	2022	Portable Equipment - Rental Compressor	Aggregate	300	Diesel	0.000318012	0.000384795	0.000457937	0.004284269	0.002195241	2.240867462	8.94536E-05	8.22973E-05	2.07084E-05	1.82897E-05	72702.47694	16302.61737	30.91999237	4697000
Los Angeles (SC)	2022	Portable Equipment - Rental Compressor	Aggregate	600	Diesel	0.00493789	0.005974847	0.007110562	0.060092708	0.046004644	31.54274643	0.001880109	0.0017297	0.00029148	0.000257448	1023369.67	118940.2225	225.5852965	66155592
Los Angeles (SC)	2022	Portable Equipment - Rental Compressor	Aggregate	750	Diesel	0.000559743	0.000677289	0.00080603	0.006315147	0.004889496	3.234967211	0.000256282	0.000235779	2.98921E-05	2.64034E-05	104954.9485	10562.25914	20.03267111	6780696
Los Angeles (SC)	2022	Portable Equipment - Rental Compressor	Aggregate	9999	Diesel	0.000393262	0.000475847	0.000566297	0.004494076	0.009126995	2.376963101	0.000186614	0.000171685	2.19644E-05	1.94005E-05	77117.95004	4592.286584	8.709857006	4982265
Los Angeles (SC)	2022	Portable Equipment - Rental Generator	Aggregate	50	Diesel	1.22397E-05	1.481E-05	1.76252E-05	0.000176796	0.000108407	0.017205109	6.04425E-06	5.56071E-06	1.58703E-07	1.40426E-07	558.2008152	626.1340044	0.43549285	32439.02

Los Angeles (SC)	2022 Portable Equipment - Rental Generator	Aggregate	75	Diesel	0.002708138	0.003276847	0.003899719	0.042372939	0.031705872	5.863299595	0.000825788	0.000759725	5.41279E-05	4.78555E-05	190228.2981	182831.1293	127.1639123	12289847
Los Angeles (SC)	2022 Portable Equipment - Rental Generator	Aggregate	100	Diesel	0.003964799	0.004797407	0.005709311	0.100071277	0.047630315	13.73045294	0.003687617	0.003392607	0.000126826	0.000112066	445469.4243	297413.6521	206.8591039	28779898
Los Angeles (SC)	2022 Portable Equipment - Rental Generator	Aggregate	175	Diesel	0.006904409	0.008354335	0.009942349	0.165678028	0.059978329	26.54843124	0.002291328	0.002108021	0.000245246	0.000216685	861334.6136	373802.0006	259.9892316	55647191
Los Angeles (SC)	2022 Portable Equipment - Rental Generator	Aggregate	300	Diesel	0.016610054	0.020098165	0.023918477	0.118798755	0.119392605	54.23869387	0.005024817	0.004622831	0.000500965	0.000442689	1759714.689	443929.0091	308.7644309	1.14E+08
Los Angeles (SC)	2022 Portable Equipment - Rental Generator	Aggregate	600	Diesel	0.022354977	0.027049522	0.032191167	0.171261828	0.138603693	83.64464408	0.006698068	0.006162222	0.000772666	0.000682696	2713758.359	413248.4429	287.4252812	1.75E+08
Los Angeles (SC)	2022 Portable Equipment - Rental Generator	Aggregate	750	Diesel	0.005162097	0.006246137	0.007433419	0.02575241	0.058675649	12.11907472	0.00225853	0.002077848	0.000111892	9.89143E-05	393190.0324	36941.90626	25.69407817	25402347
Los Angeles (SC)	2022 Portable Equipment - Rental Generator	Aggregate	9999	Diesel	0.046710127	0.056519254	0.067262583	0.313035837	0.776003835	153.7538349	0.021819167	0.020073634	0.001420129	0.001254918	4988373.843	250453.6018	174.1971401	3.22E+08
Los Angeles (SC)	2022 Portable Equipment - Rental Other Portable Equipment	Aggregate	50	Diesel	3.51106E-05	4.24839E-05	5.05593E-05	0.000578332	0.000460209	0.069936846	1.53087E-05	1.4084E-05	6.45548E-07	5.70815E-07	2269.023958	3249.146532	2.612957102	131861
Los Angeles (SC)	2022 Portable Equipment - Rental Other Portable Equipment	Aggregate	75	Diesel	0.00107666	0.001302759	0.001550391	0.0215655	0.016205103	3.242082693	0.000239049	0.000219925	2.99424E-05	2.64614E-05	105185.8024	91517.62731	73.5982917	6795610
Los Angeles (SC)	2022 Portable Equipment - Rental Other Portable Equipment	Aggregate	100	Diesel	0.00044692	0.000540774	0.000643565	0.012879265	0.004856429	1.720490914	0.000402244	0.000370064	1.58934E-05	1.40424E-05	55819.43294	39531.2828	31.79097807	3606258
Los Angeles (SC)	2022 Portable Equipment - Rental Other Portable Equipment	Aggregate	175	Diesel	0.00211392	0.002557843	0.003044045	0.056266295	0.02017261	9.430442498	0.000744564	0.000684999	8.71257E-05	7.697E-05	305960.3211	144045.4962	115.8410982	19766804
Los Angeles (SC)	2022 Portable Equipment - Rental Other Portable Equipment	Aggregate	300	Diesel	0.002037591	0.002465485	0.002934131	0.014125976	0.014346688	6.267865921	0.000592196	0.00054482	5.78884E-05	5.11575E-05	203354.007	53069.39335	42.67829933	13137843
Los Angeles (SC)	2022 Portable Equipment - Rental Other Portable Equipment	Aggregate	600	Diesel	0.001456796	0.001762723	0.002097786	0.010091458	0.010458287	4.91465578	0.000482917	0.000444284	4.53947E-05	4.01128E-05	159450.5943	24910.12341	20.03267111	10301429
Los Angeles (SC)	2022 Portable Equipment - Rental Other Portable Equipment	Aggregate	750	Diesel	0.00084891	0.001027181	0.00122243	0.007069072	0.006747702	3.528518865	0.000379437	0.000349082	3.25974E-05	2.87993E-05	114478.9086	10830.48844	8.709857006	7395999
Los Angeles (SC)	2022 Portable Equipment - Rental Other Portable Equipment	Aggregate	9999	Diesel	0.001128526	0.001365516	0.001625077	0.00676393	0.016489339	3.29000052	0.000449133	0.000413202	3.03838E-05	2.68525E-05	106740.4436	5415.24422	4.354928503	6896049
Los Angeles (SC)	2022 Portable Equipment - Rental Pump	Aggregate	50	Diesel	1.2729E-05	1.54021E-05	1.83298E-05	0.000125376	0.000105592	0.011608391	7.54763E-06	6.94382E-06	1.06943E-07	9.47461E-08	376.621473	422.4564075	0.43549285	21886.8
Los Angeles (SC)	2022 Portable Equipment - Rental Pump	Aggregate	75	Diesel	0.000445708	0.000539307	0.00064182	0.009757616	0.007856819	1.501539731	0.000265224	0.000244006	1.38691E-05	1.22554E-05	48715.80291	42245.64075	43.54928503	3147322
Los Angeles (SC)	2022 Portable Equipment - Rental Pump	Aggregate	100	Diesel	0.000663496	0.00080283	0.000955434	0.016714737	0.007800939	2.304518905	0.000626196	0.0005761	2.12865E-05	1.88092E-05	74767.5779	55764.24578	57.48505624	4830417
Los Angeles (SC)	2022 Portable Equipment - Rental Pump	Aggregate	175	Diesel	0.001062628	0.00128578	0.001530184	0.024394717	0.010098546	3.900244229	0.000463807	0.000426702	3.60278E-05	3.18333E-05	126539.1287	54919.33297	56.61407054	8175159
Los Angeles (SC)	2022 Portable Equipment - Rental Pump	Aggregate	300	Diesel	0.001355703	0.001640401	0.001952212	0.012272888	0.009809227	5.887330535	0.000388251	0.000357191	5.43906E-05	4.80516E-05	191007.9555	44780.37919	46.16224213	12340217
Los Angeles (SC)	2022 Portable Equipment - Rental Pump	Aggregate	600	Diesel	0.001581523	0.001913643	0.002277393	0.016186196	0.011357496	8.350983414	0.000533823	0.000491117	7.71615E-05	6.81596E-05	270938.4599	44780.37919	46.16224213	17504189
Los Angeles (SC)	2022 Portable Equipment - Rental Pump	Aggregate	750	Diesel	0.000282006	0.000341228	0.000406089	0.001756676	0.002664594	0.848296855	0.000120112	0.000110503	7.83446E-06	6.92368E-06	27522.05722	2534.738445	2.612957102	1778084
Los Angeles (SC)	2022 TRU - Instate Genset TRU	Aggregate	50	Diesel	0.006766677	0.00818768	0.009744016	0.128999742	0.095751108	2.632509878	0.000428697	0.000394402	2.42991E-05	2.16303E-05	1671.021909	1006672.933	1289.414991	31710197
Los Angeles (SC)	2022 TRU - Instate Trailer TRU	Aggregate	50	Diesel	0.132925967	0.160840421	0.191413393	1.980357934	1.294169214	30.49023007	0.020470879	0.018833208	0.0002798	0.000250526	19354.09355	7749377.7	5849.103547	2.63E+08
Los Angeles (SC)	2022 TRU - Instate Truck TRU	Aggregate	25	Diesel	0.017629925	0.021332209	0.025387091	0.172620763	0.207026353	4.14226772	0.008399205	0.007727269	3.80253E-05	3.40354E-05	2629.361496	2085325.724	1532.20112	29403093
Los Angeles (SC)	2022 TRU - Instate Van TRU	Aggregate	25	Diesel	0.000408145	0.000493856	0.000587729	0.003996292	0.004792805	0.095896397	0.000194447	0.000178892	8.80312E-07	7.87943E-07	60.87155928	75633.5755	55.57206135	680702.2
Los Angeles (SC)	2022 TRU - Out-of-State Genset TRU	Aggregate	50	Diesel	0.004243335	0.005134436	0.006110403	0.081089479	0.060294829	1.658816139	0.000269405	0.000247853	1.53121E-05	1.36298E-05	1052.956395	634332.0198	5130.312871	19981459
Los Angeles (SC)	2022 TRU - Out-of-State Trailer TRU	Aggregate	50	Diesel	0.070339153	0.085110375	0.10128838	1.138234409	0.750859741	19.04654266	0.005704703	0.005248327	0.000175166	0.000156498	12090.05533	4840857.303	23071.06568	1.65E+08
Los Angeles (SC)	2022 TRU - Railcar TRU	Aggregate	50	Diesel	0.007281008	0.00881002	0.010484652	0.117821924	0.077723656	1.971562527	0.00059051	0.000543269	1.81319E-05	1.61996E-05	1251.476473	501091.092	1554.108154	17037097

OFFROAD 2022

	Equipment Type	Horsepower	Gas				Diesel				Natural Gas			
		HP	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr
Air Compressors25	Air Compressors	25	424710.35	2885.44	1394854.8	0.304483556	20257.5	45.43	36978.15	0.547823512	0	0	0	0
Air Compressors50	Air Compressors	50	129870.65	119.55	57801.4	2.246842637	228033.75	274.28	223248.6	1.021434177	0	0	0	0
Air Compressors75	Air Compressors	75	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors100	Air Compressors	100	705782.25	387.67	187401.95	3.766141441	0	0	0	0	0	0	0	0
Air Compressors175	Air Compressors	175	86402.8	26.1	12607.1	6.853503185	0	0	0	0	0	0	0	0
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts25	Aerial Lifts	25	99013.55	302.34	113482.15	0.872503297	83022.9	452.71	180780.85	0.459246098	185503.95	418.24	156975.55	1.181737857
Aerial Lifts50	Aerial Lifts	50	207509.8	361.03	130447.35	1.590755197	291282.9157	1163.829162	356269.9837	0.817590392	0	0	0	0
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	218911.1936	645.3512345	196476.9206	1.114182739	0	0	0	0
Aerial Lifts100	Aerial Lifts	100	372037.2	361.03	130447.35	2.852010409	289343.0414	764.5352497	234159.695	1.235665435	0	0	0	0
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	31062.45523	48.88192329	14940.59778	2.079063749	0	0	0	0
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	1856.223497	1.647705279	506.4394285	3.665242855	0	0	0	0
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	1318.1877	0.549235093	168.8131428	7.808560865	0	0	0	0
Bore/Drill rigs25	Bore/Drill rigs	25	7084.65	43.34	5376.45	1.317718941	6924.05	12.86	10442.65	0.663054876	0	0	0	0
Bore/Drill rigs50	Bore/Drill rigs	50	1354.15	4.92	521.95	2.594405594	7452.070739	18.02533051	6490.692533	1.14811643	0	0	0	0
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	10940.95079	12.33312088	5978.979094	1.829902835	0	0	0	0
Bore/Drill rigs100	Bore/Drill rigs	100	15435.85	22.53	2412.65	6.397881997	35452.68087	42.69157226	16264.77001	2.179722236	0	0	0	0
Bore/Drill rigs175	Bore/Drill rigs	175	5387.4	5.56	598.6	9	54430.27551	43.45053355	13913.60681	3.912017657	0	0	0	0
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	79393.94261	44.7787158	14661.88357	5.414989296	0	0	0	0
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	125908.9277	35.8609207	12116.47096	10.39155115	0	0	0	0
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	74320.27282	7.589612847	4419.722033	16.81559887	0	0	0	0
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	40543.32865	1.138441927	839.9203883	48.27044231	0	0	0	0
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	233300.7	6532.91	601530.95	0.387844881	17779.15	179.09	53782.75	0.330573465	0	0	0	0
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	209305.6	919.53	261307.15	0.800994538	573.05	1.27	759.2	0.754807692	0	0	0	0
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	30966.6	18.29	11165.35	2.773455378	9026.45	11.26	6526.2	1.38310962	0	0	0	0
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	30167.25	10.48	6398.45	4.714774672	0	0	0	0	0	0	0	0
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	0
Cranes25	Cranes	25	0	0	0	0	143.3978627	0.71489451	346.3918684	0.413975834	0	0	0	0
Cranes50	Cranes	50	4511.4	5.56	2314.1	1.949526814	2323.280226	7.625541439	3369.473207	0.689508443	0	0	0	0
Cranes75	Cranes	75	0	0	0	0	889.9341635	2.3829817	884.4282046	1.006225445	0	0	0	0
Cranes100	Cranes	100	15344.6	11.16	4631.85	3.31284476	52460.82667	89.36181374	40123.35763	1.30748845	0	0	0	0
Cranes175	Cranes	175	992.8	0.46	178.85	5.551020408	160841.8754	159.6597739	73781.19262	2.179984758	0	0	0	0
Cranes300	Cranes	300	0	0	0	0	275864.6312	176.5789439	84162.76068	3.277751692	0	0	0	0
Cranes600	Cranes	600	0	0	0	0	485985.9435	177.0555403	88829.41361	5.471002495	0	0	0	0
Cranes750	Cranes	750	0	0	0	0	8427.675149	2.14468353	887.7324196	9.493485833	0	0	0	0
Cranes9999	Cranes	9999	0	0	0	0	26700.58065	3.812770719	1911.488355	13.96847675	0	0	0	0
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	7524.758943	21.14960858	7300.903165	1.030661382	0	0	0	0
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	1164.561643	3.595433458	750.2518064	1.55222771	0	0	0	0
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	331248.8369	359.7548419	170422.7526	1.943689043	0	0	0	0
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	362749.3074	238.7790808	109504.5054	3.312642765	0	0	0	0
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	379827.5458	184.847579	83503.02605	4.54866804	0	0	0	0
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	1330479.626	324.0120034	155572.4101	8.552156677	0	0	0	0
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	13583.44341	2.326456944	988.0351965	13.74793475	0	0	0	0
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	77024.06764	6.344882573	3553.55424	21.67521936	0	0	0	0
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	3124.4	10.9	3146.3	0.993039443	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	11899	6.46	1562.2	7.61682243	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	750	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment9999	Crushing/Proc. Equipment	9999	0	0	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders25	Dumpers/Tenders	25	22323.4	435.37	64926.2	0.343827299	1770.25	7.73	5102.7	0.346924177	0	0	0	0
Dumpers/Tenders100	Dumpers/Tenders	100	1266.55	4.03	503.7	2.514492754	0	0	0	0	0	0	0	0
Excavators25	Excavators	25	0	0	0	0	12528.87153	12.535757	16792.28491	0.7461088	0	0	0	0
Excavators50	Excavators	50	0	0	0	0	300859.1253	517.0823576	382719.6521	0.786108379	0	0	0	0
Excavators75	Excavators	75	0	0	0	0	3920.697993	4.23837998	2761.892882	1.419569173	0	0	0	0
Excavators100	Excavators	100	0	0	0	0	386250.3078	368.5271393	241381.2102	1.600167252	0	0	0	0
Excavators175	Excavators	175	0	0	0	0	824360.882	477.4535048	285667.4855	2.885735773	0	0	0	0
Excavators300	Excavators	300	0	0	0	0	1049442.961	410.9109391	242915.0782	4.320205107	0	0	0	0
Excavators600	Excavators	600	0	0	0	0	1870509.682	432.314758	280317.3128	6.672829669	0	0	0	0
Excavators750	Excavators	750	0	0	0	0	19466.53141	2.966865986	1564.231911	12.44478601	0	0	0	0
Excavators9999	Excavators	9999	0	0	0	0	51958.65286	3.178784985	2182.28472	23.80929142	0	0	0	0
Forklifts25	Forklifts	25	4303.35	6.92	6237.85	0.689877121	88.57709615	0.490985382	153.1788012	0.578259494	4920.2	4.01	5022.4	0.979651163
Forklifts50	Forklifts	50	3482187.6	1206.37	2170213.35	1.604536992	204913.6962	568.2424014	407774.7014	0.502516942	6536044.05	2717.52	4895796.1	1.335031916
Forklifts75	Forklifts	75	0	0	0	0	17226.67247	49.82727671	22649.68912	0.76056993	0	0	0	0
Forklifts100	Forklifts	100	16076410.4	4257.34	7625824.55	2.108153721	3021326.751	4734.100103	3077141.17	0.9818616	40904659.4	9537.69	17182718.1	2.380569777
Forklifts175	Forklifts	175	1124440.9	155.54	278688.45	4.034759603	891729.8602	870.2019484	564030.8901	1.580994722	3070025.95	349.03	628807.4	4.882299334
Forklifts300	Forklifts	300	0	0	0	0	173444.5127	107.9151903	76910.69106	2.25514178	0	0	0	0
Forklifts600	Forklifts	600	0	0	0	0	45113.44781	17.12415249	11586.12285	3.893748442	0	0	0	0
Forklifts750	Forklifts	750	0	0	0	0	696.0808542	0.245492691	53.61258043	12.98353574	0	0	0	0
Forklifts9999	Forklifts	9999	0	0	0	0	3250.893754	0.445888558	355.5017627	9.144522179	0	0	0	0
Generator Sets25	Generator Sets	25	6166368.4	75788.93	8707932.75	0.708132295	529655.15	2580.4	871098.05	0.60803161	0	0	0	0
Generator Sets50	Generator Sets	50	1005961.9	3934.19	451880.95	2.226165763	628146.75	1331.24	449395.3	1.397759945	0	0	0	0
Generator Sets75	Generator Sets	75	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets100	Generator Sets	100	453680.4	759.83	87267.85	5.198711782	0	0	0	0	40650.05	56.56	6497	6.256741573
Generator Sets175	Generator Sets	175	74146.1	71.8	8245.35	8.992474546	0	0	0	0	58761.35	46.87	5391.05	10.89979689
Generator Sets300	Generator Sets	300	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets600	Generator Sets	600	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets750	Generator Sets	750	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets9999	Generator Sets	9999	0	0	0	0	0	0	0	0	0	0	0	0
Graders25	Graders	25	0	0	0	0	57.84374789	0.425916009	98.42837163	0.587673523	0	0	0	0
Graders50	Graders	50	0	0	0	0	1936.34738	6.175782134	2202.088744	0.879323045	0	0	0	0
Graders75	Graders	75	0	0	0	0	719.5241189	1.277748028	468.5190489	1.53574144	0	0	0	0
Graders100	Graders	100	0	0	0	0	46593.53282	64.31331739	24759.41081	1.881851437	0	0	0	0
Graders175	Graders	175	0	0	0	0	501043.2762	333.4922352	158792.0312	3.155342698	0	0	0	0
Graders300	Graders	300	0	0	0	0	1039118.326	298.1412065	228531.2393	4.546942157	0	0	0	0
Graders600	Graders	600	0	0	0	0	67131.11928	11.71269025	9531.803508	7.042855974	0	0	0	0
Graders750	Graders	750	0	0	0	0	0	0	0	0	0	0	0	0
Graders9999	Graders	9999	0	0	0	0	36033.41494	1.277748028	942.4516583	38.23370103	0	0	0	0
Pavers25	Pavers	25	19089.5	42.42	16815.55	1.135228999	3372.6	4.84	3960.25	0.851612903	0	0	0	0
Pavers50	Pavers	50	14501.45	15.84	6212.3	2.334312573	8252.425423	24.81697678	8906.457784	0.926566501	0	0	0	0
Pavers75	Pavers	75	0	0	0	0	10819.94701	20.47400585	7086.740684	1.526787489	0	0	0	0
Pavers100	Pavers	100	13004.95	8.72	3423.7	3.798507463	68784.35336	99.47471527	39705.19957	1.732376467	0	0	0	0
Pavers175	Pavers	175	0	0	0	0	108948.69	82.10283152	32056.89156	3.398604315	0	0	0	0
Pavers300	Pavers	300	0	0	0	0	84560.29379	39.29354657	17874.32953	4.730823255	0	0	0	0
Pavers600	Pavers	600	0	0	0	0	16039.46539	4.549779077	2013.039639	7.967784183	0	0	0	0
Pavers750	Pavers	750	0	0	0	0	3191.97304	0.41361628	198.1018353	16.11278884	0	0	0	0
Pavers9999	Pavers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Paving Equipment25	Paving Equipment	25	404868.95	4644.63	878628	0.460796776	3985.8	8.37	6938.65	0.574434508	0	0	0	0
Paving Equipment50	Paving Equipment	50	16903.15	43.27	7573.75	2.231807229	10284.38009	30.5583829	14562.95535	0.706201444	0	0	0	0
Paving Equipment75	Paving Equipment	75	0	0	0	0	1765.560858	3.303608962	1366.350677	1.292172565	0	0	0	0
Paving Equipment100	Paving Equipment	100	6982.45	11.17	1945.45	3.589118199	42760.85773	55.95487679	26093.07505	1.638781847	0	0	0	0
Paving Equipment175	Paving Equipment	175	0	0	0	0	46102.35032	37.16560082	17292.078	2.666096598	0	0	0	0
Paving Equipment300	Paving Equipment	300	0	0	0	0	31082.44219	15.48566701	7330.625264	4.24008063	0	0	0	0
Paving Equipment600	Paving Equipment	600	0	0	0	0	33534.52262	9.704351326	4591.005076	7.304396764	0	0	0	0
Paving Equipment750	Paving Equipment	750	0	0	0	0	6350.316027	1.032377801	542.0549567	11.71526235	0	0	0	0
Paving Equipment9999	Paving Equipment	9999	0	0	0	0	3015.553298	0.41295112	194.6817098	15.489659	0	0	0	0
Rollers25	Rollers	25	94367.1	502.52	125158.5	0.753980752	73406.09857	276.1127278	191962.511	0.382398095	0	0	0	0
Rollers50	Rollers	50	18848.6	11.16	6927.7	2.720758693	169363.7309	627.3341736	219701.6373	0.770880604	0	0	0	0
Rollers75	Rollers	75	0	0	0	0	1771.630365	5.530921843	1288.017609	1.375470609	0	0	0	0
Rollers100	Rollers	100	58994.95	20.96	13023.2	4.529988789	262939.6076	462.4701572	155220.8702	1.693970709	0	0	0	0
Rollers175	Rollers	175	0	0	0	0	273679.636	270.5897148	98170.78492	2.787791054	0	0	0	0
Rollers300	Rollers	300	0	0	0	0	46273.06527	35.10008092	10972.48436	4.21719127	0	0	0	0
Rollers600	Rollers	600	0	0	0	0	25583.43731	12.1254825	3726.156287	6.865905598	0	0	0	0
Rollers750	Rollers	750	0	0	0	0	0	0	0	0	0	0	0	0
Rollers9999	Rollers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Rough Terrain Forklifts25	Rough Terrain Forklifts	25	0	0	0	0	88.57709615	0.490985382	153.1788012	0.578259494	0	0	0	0
Rough Terrain Forklifts50	Rough Terrain Forklifts	50	3051.4	2.24	912.5	3.344	8528.207742	27.98616677	7724.182884	1.104091898	0	0	0	0
Rough Terrain Forklifts75	Rough Terrain Forklifts	75	0	0	0	0	235.1970949	0.736478073	170.4823325	1.379598059	0	0	0	0
Rough Terrain Forklifts100	Rough Terrain Forklifts	100	66758.5	31.69	13088.9	5.100390407	676975.0887	1183.029278	337658.2722	2.004911902	0	0	0	0
Rough Terrain Forklifts175	Rough Terrain Forklifts	175	3766.8	1.11	463.55	8.125984252	145393.8947	199.5855578	55611.84745	2.614441011	0	0	0	0
Rough Terrain Forklifts300	Rough Terrain Forklifts	300	0	0	0	0	10886.05221	9.81970764	2487.169869	4.376883278	0	0	0	0
Rough Terrain Forklifts600	Rough Terrain Forklifts	600	0	0	0	0	4045.250566	1.963941528	508.8940174	7.949102224	0	0	0	0
Rough Terrain Forklifts750	Rough Terrain Forklifts	750	0	0	0	0	696.0808542	0.245492691	53.61258043	12.98353574	0	0	0	0
Rough Terrain Forklifts9999	Rough Terrain Forklifts	9999	0	0	0	0	0	0	0	0	0	0	0	0
Rubber Tired Dozers25	Rubber Tired Dozers	25	0	0	0	0	0	0	0	0	0	0	0	0
Rubber Tired Dozers50	Rubber Tired Dozers	50	0	0	0	0	7472.610378	8.298005046	7972.52553	0.937295259	0	0	0	0
Rubber Tired Dozers75	Rubber Tired Dozers	75	0	0	0	0	8028.769613	7.488443578	5642.109382	1.423008501	0	0	0	0
Rubber Tired Dozers100	Rubber Tired Dozers	100	0	0	0	0	23500.93351	15.38166789	13504.25293	1.740261651	0	0	0	0
Rubber Tired Dozers175	Rubber Tired Dozers	175	0	0	0	0	32619.73576	14.16732569	11263.17135	2.896141303	0	0	0	0
Rubber Tired Dozers300	Rubber Tired Dozers	300	0	0	0	0	36733.26917	11.53625092	8217.143222	4.470321154	0	0	0	0
Rubber Tired Dozers600	Rubber Tired Dozers	600	0	0	0	0	377734.1983	68.0031633	49915.339	7.567497405	0	0	0	0
Rubber Tired Dozers750	Rubber Tired Dozers	750	0	0	0	0	14008.10828	1.011951835	1028.984551	13.61352633	0	0	0	0
Rubber Tired Dozers9999	Rubber Tired Dozers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Rubber Tired Loaders25	Rubber Tired Loaders	25	0	0	0	0	3321.5	4.5	4314.3	0.769881557	0	0	0	0
Rubber Tired Loaders50	Rubber Tired Loaders	50	7081	5.58	2861.6	2.474489796	23288.33647	31.00995646	26911.31813	0.865373311	0	0	0	0
Rubber Tired Loaders75	Rubber Tired Loaders	75	0	0	0	0	1513.21346	2.109520847	1162.946078	1.301189701	0	0	0	0
Rubber Tired Loaders100	Rubber Tired Loaders	100	70846.5	36.97	18969.05	3.734847027	570335.7072	383.9327942	357894.8883	1.59358439	0	0	0	0
Rubber Tired Loaders175	Rubber Tired Loaders	175	0	0	0	0	1359754.527	510.9259493	486018.3469	2.797743204	0	0	0	0
Rubber Tired Loaders300	Rubber Tired Loaders	300	0	0	0	0	1964853.285	468.5245802	505088.1275	3.89011972	0	0	0	0
Rubber Tired Loaders600	Rubber Tired Loaders	600	0	0	0	0	2550716.766	420.638457	414652.3119	6.151459168	0	0	0	0
Rubber Tired Loaders750	Rubber Tired Loaders	750	0	0	0	0	242131.5164	20.04044805	20156.67575	12.01247266	0	0	0	0
Rubber Tired Loaders9999	Rubber Tired Loaders	9999	0	0	0	0	176076.2272	8.227131305	9813.256372	17.94269105	0	0	0	0
Scrapers25	Scrapers	25	0	0	0	0	60.17811878	0.208577481	86.76333946	0.693589241	0	0	0	0
Scrapers50	Scrapers	50	0	0	0	0	478.9716715	1.251464887	453.3384487	1.056543236	0	0	0	0
Scrapers75	Scrapers	75	0	0	0	0	4156.644702	5.42301451	2465.042878	1.686236268	0	0	0	0
Scrapers100	Scrapers	100	0	0	0	0	20047.9866	15.22615612	8812.504187	2.274947754	0	0	0	0
Scrapers175	Scrapers	175	0	0	0	0	252287.7118	132.0295456	60126.99424	4.195914248	0	0	0	0
Scrapers300	Scrapers	300	0	0	0	0	306820.1418	135.1582078	55343.68314	5.543905364	0	0	0	0
Scrapers600	Scrapers	600	0	0	0	0	3753278.137	732.1069588	355607.5001	10.5545528	0	0	0	0
Scrapers750	Scrapers	750	0	0	0	0	57740.93966	10.01171909	3702.384502	15.59560862	0	0	0	0
Scrapers9999	Scrapers	9999	0	0	0	0	86740.26417	5.42301451	2176.313765	39.85650671	0	0	0	0
Skid Steer Loaders25	Skid Steer Loaders	25	309063.75	877.55	280188.6	1.10305612	323481.25	617.39	515343.5	0.627700262	0	0	0	0
Skid Steer Loaders50	Skid Steer Loaders	50	90275.45	152.11	47190.85	1.91298631	128121.7495	434.359881	138327.4541	0.926220687	0	0	0	0
Skid Steer Loaders75	Skid Steer Loaders	75	0	0	0	0	680753.2663	1401.063652	505485.8653	1.346730568	0	0	0	0
Skid Steer Loaders100	Skid Steer Loaders	100	120552.2	91	28236.4	4.269389866	240.9953877	0.64604841	149.3005466	1.614162796	0	0	0	0
Skid Steer Loaders175	Skid Steer Loaders	175	0	0	0	0	4602.35703	5.81443569	1588.80665	2.896738272	0	0	0	0
Skid Steer Loaders300	Skid Steer Loaders	300	0	0	0	0	4272.847274	3.66094099	1093.128835	3.908823128	0	0	0	0
Skid Steer Loaders600	Skid Steer Loaders	600	0	0	0	0	1234.830914	0.43069894	136.8588344	9.022661336	0	0	0	0
Skid Steer Loaders750	Skid Steer Loaders	750	0	0	0	0	0	0	0	0	0	0	0	0
Skid Steer Loaders9999	Skid Steer Loaders	9999	0	0	0	0	1671.513927	0.43069894	87.58965401	19.08346307	0	0	0	0
Surfacing Equipment25	Surfacing Equipment	25	197680.35	1253.49	536316.4	0.368589046	0	0	0	0	0	0	0	0
Surfacing Equipment50	Surfacing Equipment	50	0	0	0	0	1187.368201	7.619292933	1879.319613	0.631807487	0	0	0	0
Surfacing Equipment75	Surfacing Equipment	75	0	0	0	0	754.6379056	2.930497282	722.8326006	1.044000928	0	0	0	0
Surfacing Equipment100	Surfacing Equipment	100	0	0	0	0	7184.923946	18.16908315	5141.321824	1.397485742	0	0	0	0
Surfacing Equipment175	Surfacing Equipment	175	0	0	0	0	6175.06931	11.52662264	2887.041265	2.138891947	0	0	0	0
Surfacing Equipment300	Surfacing Equipment	300	0	0	0	0	11998.21553	13.67565398	3395.416973	3.533650102	0	0	0	0
Surfacing Equipment600	Surfacing Equipment	600	0	0	0	0	42275.43014	23.24861177	6636.199238	6.370428106	0	0	0	0
Surfacing Equipment750	Surfacing Equipment	750	0	0	0	0	18087.59726	5.860994564	1805.501293	10.01804725	0	0	0	0
Surfacing Equipment9999	Surfacing Equipment	9999	0	0	0	0	6535.809187	1.758298369	478.577487	13.65674183	0	0	0	0
Sweepers/Scrubbers25	Sweepers/Scrubbers	25	97060.8	396.91	107255.25	0.904951506	21326.95	45.65	29692.75	0.718254456	0	0	0	0
Sweepers/Scrubbers50	Sweepers/Scrubbers	50	454936	335.76	173400.55	2.623613362	78103.90478	117.0039304	83669.90285	0.9334767	0	0	0	0
Sweepers/Scrubbers75	Sweepers/Scrubbers	75	0	0	0	0	16344.79299	17.39527462	9584.863264	1.705271379	0	0	0	0
Sweepers/Scrubbers100	Sweepers/Scrubbers	100	648389.65	280.36	144791.85	4.478081121	104367.382	77.86456256	56184.48908	1.857583538	0	0	0	0
Sweepers/Scrubbers175	Sweepers/Scrubbers	175	7592	1.62	839.5	9.043478261	30110.43828	10.97558994	7992.171785	3.767491376	0	0	0	0
Sweepers/Scrubbers300	Sweepers/Scrubbers	300	0	0	0	0	18082.68838	4.970078462	3658.213241	4.943038359	0	0	0	0
Sweepers/Scrubbers600	Sweepers/Scrubbers	600	0	0	0	0	2442.046068	0.414173205	313.9439935	7.778604207	0	0	0	0
Sweepers/Scrubbers750	Sweepers/Scrubbers	750	0	0	0	0	0	0	0	0	0	0	0	0
Sweepers/Scrubbers9999	Sweepers/Scrubbers	9999	0	0	0	0	3137.659191	0.207086603	156.9719967	19.98865566	0	0	0	0
Tractors/Loaders/Backhoes25	Tractors/Loaders/Backhoes	25	0	0	0	0	61706.9	90.69	85501.25	0.721707577	0	0	0	0
Tractors/Loaders/Backhoes50	Tractors/Loaders/Backhoes	50	0	0	0	0	252632.3325	607.9000379	317892.5087	0.794709927	0	0	0	0
Tractors/Loaders/Backhoes75	Tractors/Loaders/Backhoes	75	0	0	0	0	38010.02098	119.6737008	27712.6541	1.371576351	0	0	0	0
Tractors/Loaders/Backhoes100	Tractors/Loaders/Backhoes	100	50041.5	19.65	17089.3	2.928235797	4043902.269	4007.904013	2539302.443	1.592524861	0	0	0	0
Tractors/Loaders/Backhoes175	Tractors/Loaders/Backhoes	175	0	0	0	0	706495.6219	461.7498546	259268.6076	2.724956286	0	0	0	0
Tractors/Loaders/Backhoes300	Tractors/Loaders/Backhoes	300	0	0	0	0	443358.8038	198.4677127	111900.0897	3.962095159	0	0	0	0
Tractors/Loaders/Backhoes600	Tractors/Loaders/Backhoes	600	0	0	0	0	582642.218	162.8833203	90513.88969	6.437047618	0	0	0	0
Tractors/Loaders/Backhoes750	Tractors/Loaders/Backhoes	750	0	0	0	0	9442.630082	1.694494879	758.7143665	12.44556647	0	0	0	0
Tractors/Loaders/Backhoes9999	Tractors/Loaders/Backhoes	9999	0	0	0	0	198095.3044	8.896098115	5613.507326	35.28904353	0	0	0	0
Trenchers25	Trenchers	25	190270.85	450.58	195720.3	0.972156951	29305.85	49.51	30630.8	0.956744519	0	0	0	0
Trenchers50	Trenchers	50	90049.15	101.51	40836.2	2.205130497	89700.33839	199.3361669	77681.23257	1.154723418	0	0	0	0
Trenchers75	Trenchers	75	0	0	0	0	5369.413689	10.87288183	2945.881479	1.8226849	0	0	0	0
Trenchers100	Trenchers	100	56129.7	33.65	13552.45	4.141664422	58525.68972	80.64054023	26874.91946	2.177706609	0	0	0	0
Trenchers175	Trenchers	175	0	0	0	0	14454.77114	13.13806554	4030.792962	3.586086231	0	0	0	0
Trenchers300	Trenchers	300	0	0	0	0	29841.89857	16.30932274	5086.389586	5.867010001	0	0	0	0
Trenchers600	Trenchers	600	0	0	0	0	45357.90553	12.23199206	4557.413445	9.952554466	0	0	0	0
Trenchers750	Trenchers	750	0	0	0	0	14579.89572	1.812146972	866.0970072	16.83402159	0	0	0	0
Trenchers9999	Trenchers	9999	0	0	0	0	1170.392857	0.226518371	52.34796054	22.35794566	0	0	0	0
Welders25	Welders	25	1541807.45	9261.49	1924013.55	0.80134958	239064.05	951.43	611046.5	0.391237083	0	0	0	0
Welders50	Welders	50	313706.55	624.74	129786.7	2.4170932	1046743.35	1370.81	880328.9	1.189036677	0	0	0	0
Welders75	Welders	75	0	0	0	0	0	0	0	0	0	0	0	0
Welders100	Welders	100	440390.75	637.62	132465.8	3.324561887	0	0	0	0	0	0	0	0
Welders175	Welders	175	54958.05	43.97	9125	6.0228	0	0	0	0	0	0	0	0
Welders300	Welders	300	0	0	0	0	0	0	0	0	0	0	0	0
Welders600	Welders	600	0	0	0	0	0	0	0	0	0	0	0	0
Welders750	Welders	750	0	0	0	0	0	0	0	0	0	0	0	0
Welders9999	Welders	9999	0	0	0	0	0	0	0	0	0	0	0	0

Model Output: OFFROAD2017 (v1.0.1) Emissions Inventory
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2023
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2017 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bi	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consump	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy
Los Angeles (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	50	Diesel	0.004012668	0.004855329	0.005778242	0.013076127	0.011796036	0.16894827	0.00107779	0.000991566	1.45211E-06	1.38818E-06	39143.41818	35072.21976	109.3572193	1431023
Los Angeles (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	75	Diesel	0.003860992	0.0046718	0.005559829	0.016181934	0.029013743	0.317032768	0.002252289	0.002072106	2.83496E-06	2.60493E-06	73452.93465	41562.66974	117.9474977	2621597
Los Angeles (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	100	Diesel	0.004332095	0.005241835	0.006238216	0.031482473	0.034743802	0.706367659	0.002843952	0.002616436	6.44456E-06	5.80395E-06	163657.4598	68397.69714	123.5326358	5860303
Los Angeles (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	175	Diesel	0.002748035	0.003325122	0.00395717	0.018587183	0.024742785	0.406059084	0.00144443	0.001328876	3.69696E-06	3.33643E-06	94079.33303	30128.31875	46.30698618	3651245
Los Angeles (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	300	Diesel	0.002176392	0.002633434	0.003134004	0.008276441	0.022072503	0.416277789	0.000941837	0.00086649	3.80922E-06	3.42039E-06	96446.89236	17477.49834	21.13406261	3787283
Los Angeles (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	600	Diesel	0.001172229	0.001418398	0.00168801	0.005413535	0.00966453	0.345249279	0.000444228	0.00040869	3.17824E-06	2.83678E-06	79990.38365	8675.109124	7.76664303	3189027
Los Angeles (SC)	2023	Agricultural - Bale Wagons (Self Propelled)	Aggregate	50	Diesel	1.53614E-06	1.85873E-06	2.21204E-06	1.13925E-05	1.15785E-05	0.000205426	5.60764E-07	5.15903E-07	1.86592E-09	1.68791E-09	47.59489627	46.66166384	0.072973065	1633.158
Los Angeles (SC)	2023	Agricultural - Bale Wagons (Self Propelled)	Aggregate	100	Diesel	1.10703E-05	1.33951E-05	1.59412E-05	0.000121669	9.6516E-05	0.002839537	8.12127E-06	7.47156E-06	2.60969E-08	2.33314E-08	657.8888972	269.305981	0.434531232	22569.33
Los Angeles (SC)	2023	Agricultural - Bale Wagons (Self Propelled)	Aggregate	175	Diesel	2.90628E-05	3.5166E-05	4.18505E-05	0.00033455	0.000263834	0.008049966	1.6485E-05	1.51662E-05	7.40532E-08	6.61434E-08	1865.086761	557.2329697	0.895225584	71703.62
Los Angeles (SC)	2023	Agricultural - Bale Wagons (Self Propelled)	Aggregate	300	Diesel	7.70519E-06	9.32328E-06	1.10955E-05	3.57235E-05	7.84072E-05	0.002445409	3.2346E-06	2.97584E-06	2.25295E-08	2.0093E-08	566.5738506	111.7181782	0.180721082	21613.17
Los Angeles (SC)	2023	Agricultural - Balers (Self Propelled)	Aggregate	50	Diesel	2.71447E-05	3.2845E-05	3.90883E-05	0.000132837	0.000145272	0.002489296	8.8171E-06	8.11173E-06	2.23548E-08	2.04536E-08	576.7419216	428.0849289	1.32202202	19722.78
Los Angeles (SC)	2023	Agricultural - Balers (Self Propelled)	Aggregate	75	Diesel	1.2707E-05	1.53755E-05	1.82981E-05	9.65057E-05	0.000127502	0.002284183	7.64649E-06	7.03477E-06	2.08788E-08	1.87682E-08	529.2196206	280.4873532	0.858584198	18205
Los Angeles (SC)	2023	Agricultural - Balers (Self Propelled)	Aggregate	100	Diesel	2.70433E-06	3.27223E-06	3.89423E-06	2.11522E-05	2.42144E-05	0.000500648	1.8122E-06	1.66723E-06	4.57866E-09	4.11363E-09	115.9945324	50.31147642	0.155100984	3986.723
Los Angeles (SC)	2023	Agricultural - Balers (Self Propelled)	Aggregate	175	Diesel	1.09854E-06	1.32924E-06	1.5819E-06	1.00639E-05	1.18991E-05	0.000248903	6.24635E-07	5.74665E-07	2.28371E-09	2.04514E-09	57.66800061	21.01912578	0.064931575	2212.533
Los Angeles (SC)	2023	Agricultural - Combine Harvesters	Aggregate	75	Diesel	2.43984E-06	2.95221E-06	3.51337E-06	1.63369E-05	2.19287E-05	0.000374572	1.56452E-06	1.43936E-06	3.41313E-09	3.07771E-09	86.78401584	60.30093806	0.165642014	3355.51
Los Angeles (SC)	2023	Agricultural - Combine Harvesters	Aggregate	100	Diesel	1.91359E-05	2.31544E-05	2.75557E-05	0.000129185	0.000165237	0.002958236	1.33442E-05	1.22766E-05	2.69597E-08	2.43067E-08	685.3900326	304.8268597	0.846999425	25886.8
Los Angeles (SC)	2023	Agricultural - Combine Harvesters	Aggregate	175	Diesel	2.85006E-05	3.44858E-05	4.10409E-05	0.000225553	0.000297441	0.005481228	1.63252E-05	1.50192E-05	5.01616E-08	4.50371E-08	1269.939035	399.1509665	1.123400552	55757.73
Los Angeles (SC)	2023	Agricultural - Combine Harvesters	Aggregate	300	Diesel	0.000143564	0.000173713	0.000206732	0.000638695	0.001833781	0.039726277	6.79747E-05	6.25367E-05	3.65446E-07	3.26415E-07	9204.132551	1693.352531	4.537339798	391705.8
Los Angeles (SC)	2023	Agricultural - Combine Harvesters	Aggregate	600	Diesel	3.10112E-05	3.75235E-05	4.46561E-05	0.000235095	0.00035743	0.015161955	1.51023E-05	1.38941E-05	1.4019E-07	1.2458E-07	3512.854911	440.2881	0.976751832	145674.2
Los Angeles (SC)	2023	Agricultural - Construction Equipment	Aggregate	50	Diesel	0.000280305	0.000339169	0.000403639	0.001031636	0.000954656	0.014415055	7.8665E-05	7.23718E-05	1.25759E-07	1.18443E-07	3339.806432	3229.644609	8.366231412	143030.2
Los Angeles (SC)	2023	Agricultural - Construction Equipment	Aggregate	75	Diesel	0.000193676	0.000234348	0.000278893	0.001068565	0.001628108	0.023116699	0.000114814	0.000105629	2.09349E-07	1.89941E-07	5355.879859	3624.679752	10.00463717	228322.2
Los Angeles (SC)	2023	Agricultural - Construction Equipment	Aggregate	100	Diesel	0.000370959	0.000448861	0.000534181	0.002469517	0.002968424	0.054591384	0.000245385	0.000225754	4.96981E-07	4.48556E-07	12648.21108	6421.277912	13.2412834	541535.9
Los Angeles (SC)	2023	Agricultural - Construction Equipment	Aggregate	175	Diesel	0.000742546	0.000898481	0.001069266	0.005511818	0.006600235	0.123091358	0.000396282	0.00036458	1.1234E-06	1.01139E-06	28518.88632	11114.19114	18.09450503	1361308
Los Angeles (SC)	2023	Agricultural - Construction Equipment	Aggregate	300	Diesel	0.000403004	0.000487634	0.000580325	0.00160277	0.004307001	0.081400204	0.000183022	0.000168381	7.45543E-07	6.68834E-07	18859.51381	4554.912761	8.171588581	896431.4
Los Angeles (SC)	2023	Agricultural - Construction Equipment	Aggregate	600	Diesel	5.71384E-05	6.91374E-05	8.22793E-05	0.000250778	0.000545774	0.009831674	2.35584E-05	2.16737E-05	8.97942E-08	8.0783E-08	2277.888424	310.9949404	0.35237034	109848.1
Los Angeles (SC)	2023	Agricultural - Cotton Pickers	Aggregate	100	Diesel	4.80457E-06	5.81353E-06	6.91858E-06	6.77393E-05	5.03897E-05	0.001676127	3.79779E-06	3.49396E-06	1.54564E-08	1.37721E-08	388.3399261	166.835466	0.370677621	15015.19
Los Angeles (SC)	2023	Agricultural - Cotton Pickers	Aggregate	175	Diesel	1.09557E-05	1.32563E-05	1.57761E-05	0.000160723	0.000118633	0.004086888	6.77778E-06	6.23556E-06	3.77101E-08	3.35804E-08	946.8860983	329.1897547	0.721639362	39957.61
Los Angeles (SC)	2023	Agricultural - Cotton Pickers	Aggregate	300	Diesel	1.00802E-05	1.2197E-05	1.45154E-05	5.81685E-05	0.000122417	0.004297887	4.76613E-06	4.38484E-06	3.97002E-08	3.53141E-08	995.7721705	173.1820169	0.375444015	42796.9
Los Angeles (SC)	2023	Agricultural - Cotton Pickers	Aggregate	600	Diesel	2.94079E-05	3.55836E-05	4.23474E-05	0.000170264	0.000347322	0.012853216	1.46601E-05	1.29353E-05	1.18749E-07	1.0561E-07	2977.945849	392.5354093	0.860493558	127551.8
Los Angeles (SC)	2023	Agricultural - Forage & Silage Harvesters	Aggregate	100	Diesel	9.86181E-07	1.19328E-06	1.4201E-06	6.67057E-06	8.53562E-06	0.000152942	6.88972E-07	6.33854E-07	1.39393E-09	1.25667E-09	35.43502918	17.12622521	0.04683137	1370.098
Los Angeles (SC)	2023	Agricultural - Forage & Silage Harvesters	Aggregate	300	Diesel	9.79553E-07	1.18526E-06	1.41056E-06	4.03525E-06	1.26887E-05	0.000242902	4.61864E-07	4.24915E-07	2.23143E-09	1.99583E-09	56.27776396	10.99580606	0.031051756	2419.077
Los Angeles (SC)	2023	Agricultural - Forage & Silage Harvesters	Aggregate	600	Diesel	1.06801E-05	1.29229E-05	1.53793E-05	5.97042E-05	0.000131429	0.003651426	5.13732E-06	4.72634E-06	3.36653E-08	3.00023E-08	845.9944877	89.71722706	0.222584686	37539.47
Los Angeles (SC)	2023	Agricultural - Forage & Silage Harvesters	Aggregate	750	Diesel	1.98683E-05	2.40407E-05	2.86104E-05	0.000146746	0.000230956	0.009432499	9.65546E-06	8.88302E-06	8.7197E-08	7.75032E-08	2185.40407	154.4098878	0.338728024	93378.98
Los Angeles (SC)	2023	Agricultural - Forage & Silage Harvesters	Aggregate	9999	Diesel	1.20948E-05	1.46347E-05	1.74166E-05	8.82586E-05	0.000270768	0.005626805	6.08244E-06	5.59584E-06	5.20087E-08	4.62333E-08	1303.667555	65.1600373	0.141682816	56037.63
Los Angeles (SC)	2023	Agricultural - Forklifts	Aggregate	50	Diesel	2.35124E-05	2.845E-05	3.38578E-05	9.90991E-05	9.15642E-05	0.00146915	6.69295E-06	6.15751E-06	1.29688E-08	1.20714E-08	340.3856463	440.7763029	0.731080019	14599.87
Los Angeles (SC)	2023	Agricultural - Forklifts	Aggregate	75	Diesel	1.943E-06	2.35103E-06	2.79792E-06	1.12982E-05	1.60661E-05	0.000236946	1.10495E-06	1.01655E-06	2.14709E-09	1.9469E-09	54.89782342	36.22594011	0.043057306	2354.686
Los Angeles (SC)	2023	Agricultural - Forklifts	Aggregate	100	Diesel	7.51212E-07	9.08967E-07	1.08175E-06	4.49029E-06	5.58516E-06	9.4171E-05	4.66632E-07	4.29302E-07	8.53961E-10	7.73767E-10	21.81836604	12.07531343	0.014352436	935.8368
Los Angeles (SC)	2023	Agricultural - Hay Squeeze/Stack retriever	Aggregate	75	Diesel	1.40979E-06	1.70584E-06	2.03009E-06	6.48466E-06	1.02788E-05	0.000127041	8.49645E-07	7.81674E-07	1.14014E-09	1.04384E-09	29.43392393	19.13925349	0.03248052	1202.366
Los Angeles (SC)	2023	Agricultural - Hay Squeeze/Stack retriever	Aggregate	100	Diesel	1.55691E-06	1.88386E-06	2.24195E-06	7.21717E-06	1.10174E-05	0.000141391	9.86302E-07	9.07397E-07	1.26929E-09	1.16176E-09	32.75875605	17.26689686	0.0292815	1338.185
Los Angeles (SC)	2023	Agricultural - Hay Squeeze/Stack retriever	Aggregate	175	Diesel	3.38248E-05	4.09281E-05	4.87078E-05	0.000185144	0.000298205	0.003880173	1.77456E-05	1.63259E-05	3.51E-08	3.18819E-08	898.9925726	312.7346969	0.529175596	37697.13
Los Angeles (SC)	2023	Agricultural - Hay Squeeze/Stack retriever	Aggregate	300	Diesel	7.93594E-05	9.60248E-05	0.000114277	0.000273602	0.00082009	0.011043435	3.52408E-05	3.24215E-05	1.00406E-07	9.07396E-08	2558.639973	489.0575111	0.824367446	116132
Los Angeles (SC)	2023	Agricultural - Hay Squeeze/Stack retriever	Aggregate	600	Diesel	2.19316E-05	2.65372E-05	3.15815E-05	0.000109636	0.000224492	0.003302215	9.56812E-06	8.80267E-06	3.00774E-08	2.7133E-08	765.0860822	107.1508387	0.182247665	34078
Los Angeles (SC)	2023	Agricultural - Nut Harvester	Aggregate	50	Diesel	5.4207E-05	6.55905E-05	7.80581E-05	0.000641029	0.00075941	0.015709293	2.32962E-05	2.14325E-05	1.44588E-07	1.29077E-07	3639.667006	3521.741386	8.974001514	141066.7
Los Angeles (SC)	2023	Agricultural - Nut Harvester	Aggregate	75	Diesel	3.28073E-05	3.96969E-05	4.72426E-05	0.000552613	0.00053447	0.014221469	1.84843E-05	1.70056E-05	1.31382E-07	1.16852E-07	3294.954798	1966.693535	4.991926006	128370.5
Los Angeles (SC)	2023	Agricultural - Nut Harvester	Aggregate	100	Diesel	6.96037E-05	8.42205E-05	0.000100229	0.001918409	0.000798424	0.049631768	5.57539E-05	5.12936E-05	4.5986E-07	4.07805E-07	11499.12369	5438.612474	9.716415145	447453.2
Los Angeles (SC)	2023	Agricultural - Nut Harvester	Aggregate	175	Diesel	7.747E-05	9.37387E-05	0.000111557	0.001518197	0.000839629	0.039369368	4.73307E-05	4.35443E-05	3.64107E-07	3.23483E-07	9121.440651	3106.494953	6.29391869	382343.8
Los Angeles (SC)	2023	Agricultural - Nut Harvester	Aggregate	300	Diesel	5.95857E-06	7.20987E-06	8.58034E-06	4.30937E-05	6.7062E-05	0.003196962	2.82682E-06	2.60067E-06	2.9577E-08	2.62682E-08	740.7001987	161.4411378	0.331515516	31985.92
Los Angeles (SC)	2023	Agricultural - Nut Harvester	Aggregate	600	Diesel	4.14836E-05	5.01951E-05	5.97364E-05	0.000351729	0.000494406	0.027592149	2.08027E-05	1.91384E-05	2.5557E-07	2.26714E-07	6392.791315	845.5125927	1.984455866	274791.6
Los Angeles (SC)	2023	Agricultural - Other Harvesters	Aggregate	50	Diesel	2.87067E-05	3.47351E-05	4.13376E-05	0.000186946	0.000170231	0.002931174	9.02251E-06	8.30071E-06	2.64207E-08	2.40843E-08	679.1200162	688.8930492	0.546404869	26258.23
Los Angeles (SC)	2023	Agricultural - Other Harvesters	Aggregate	75	Diesel	3.5158E-05	4.25411E-05	5.06275E-05	0.000335494	0.000332429	0.007495241	1.83416E-05	1.68743E-05	6.87073E-08	6.15855E-08	1736.563344	1005.166085	0.717122298	67793.94
Los Angeles (SC)	2023	Agricultural - Other Harvesters	Aggregate	100	Diesel	0.000120909	0.0001463	0.000174109	0.001147726	0.000898646	0.02541699	8.02928E-05	7.38693E-05	2.32942E-07	2.08842E-07	5888.831334	2657.800108	2.140923518	227730.8
Los Angeles (SC)	2023	Agricultural - Other Harvesters	Aggregate	175	Diesel	8.84552E-05	0.000107031	0.000127375	0.000727058	0.000805026	0.016807242	4.85226E-05	4.46408E-05	1.5378E-07	1.38099E-07	3894.049403	1283.359353	1.893692557	170438.9
Los Angeles (SC)	2023	Agricultural - Other Harvesters	Aggregate	300	Diesel	7.53701E-05	9.11978E-05	0.000108533	0.000302443	0.000797497	0.016819679	3.30606E-05	3.04158E-05	1.54288E-07	1.38201E-07	3896.930957	776.0701151	1.170423264	165615.6
Los Angeles (SC)	2023	Agricultural - Other Harvesters	Aggregate	600	Diesel	2.00172E-05	2.42208E-05	2.88247E-05	0.000104786	0.000211056	0.004193536	8.89265E-06	8.18124E-06	3.84309E-08	3.44567E-08	971.5951971	108.9522262	0.182377839	41935.72
Los Angeles (SC)	2023	Agricultural - Others	Aggregate	50	Diesel	2.00837E-05	2.43013E-05	2.89205E-05	8.74576E-05	8.37668E-05	0.001361464	5.89995E-06	5.42795E-06	1.20693E-08	1.11866E-08	315.4359635	300.6606462	0.572829154	13529.73
Los Angeles (SC)	2023	Agricultural - Others	Aggregate	75	Diesel	3.76693E-06	4.55798E-06	5.42437E-06	2.51403E-05	3.38691E-05	0.000561362	2.25256E-06	2.07235E-06	5.11187E-09	4.61249E-09	130.0612064	85.82470387	0.17383289	5578.606
Los Angeles (SC)	2023	Agricultural - Others	Aggregate	100	Diesel	1.51742E-05	1.83608E-05	2.18508E-05	0.000103555	0.000122938	0.002308763	9.98591E-06	9.18703E-06	2.10336E-08	1.89702E-08	534.9145245	263.5117814	0.528674867	22943.64
Los Angeles (SC)	2023	Agricultural - Others	Aggregate	175	Diesel	4.29817E-05	5.20079E-05	6.18937E-05	0.00033993	0.000418155	0.007929058	2.37955E-05	2.18919E-05	7.25103E-08	6.515E-08	1837.073858	687.0591409	1.391211583	87598.89
Los Angeles (SC)	2023	Agricultural - Others	Aggregate	300	Diesel	4.83818E-05	5.8542E-05	6.96698E-05	0.000203613	0.000535425	0.010384905	2.284E-05	2.10128E-05	9.52061E-08	8.53287E-08	2406.065854	527.0235338	1.057349719	114730.7
Los Angeles (SC)	2023	Agricultural - Others	Aggregate	600	Diesel	0.00022493	0.000272165	0.000323899	0.001354752	0.002509594	0.052542648	0.000105534	9.70908E-05	4.82293E-07	4.31722E-07	12173.54195	1553.674226	3.14687568	580482.2
Los Angeles (SC)	2023	Agricultural - Sprayers/Spray rigs	Aggregate	50	Diesel	5.04349E-05	6.10263E-05	7.26263E-05	0.00021086	0.000201319	0.003262542	1.45619E-05	1.33969E-05	2.88531E-08	2.6807E-08	755.8942784	818.3104646	1.462407481	30739.71
Los Angeles (SC)	2023	Agricultural - Sprayers/Spray rigs	Aggregate	75	Diesel	1.07293E-05	1.29825E-05	1.54502E-05	6.79982E-05	9.47744E-05	0.001502353	6.3727E-06	5.86288E-06	1.36613E-08	1.23443E-08	348.0784407	235.5262407	0.422762516	14216.52
Los Angeles (SC)	2023	Agricultural - Sprayers/Spray rigs	Aggregate	100	Diesel	3.47344E-05	4.20286E-05	5.00175E-05	0.000225139	0.000277072	0.004968776	2.25061E-05	2.07056E-05	4.52049E-08	4.08265E-08	1151.209603	535.3905529	0.954351176	47360.73
Los Angeles (SC)	2023	Agricultural - Sprayers/Spray rigs	Aggregate	175	Diesel	4.53339E-05	5.4854E-05	6.52808E-05	0.000347154	0.000442106	0.008021643	2.49322E-05	2.29376E-05	7.33015E-08	6.59107E-08	1858.524599	692.0625812	1.238826245	82528.22
Los Angeles (SC)	2023	Agricultural - Sprayers/Spray rigs	Aggregate	300	Diesel	1.90183E-05	2.30121E-05	2.73863E-05	8.07573E-05	0.000210633	0.003919728	9.0586E-06	8.33392E-06	3.59124E-08	3.22069E-08	908.156919	186.6847958	0.337017674	40893.57
Los Angeles (SC)	2023	Agricultural - Sprayers/Spray rigs	Aggregate	600	Diesel	1.16265E-06	1.40681E-06	1.67422E-06	7.36822E-06	1.2999E-05	0.000260057	5.48562E-07	5.04677E-07	2.3856E-09	2.13678E-09	60.25220877	8.291664092	0.015204643	2736.249
Los Angeles (SC)	2023	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	50	Diesel	9.04623E-06	1.09459E-05	1.30266E-05	7.10199E-05	7.80233E-05	0.001467605	3.37857E-06	3.10829E-06	1.33884E-08	1.20587E-08	340.0275659	279.7353802	0.641948544	12386.16
Los Angeles (SC)	2023	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	75	Diesel	2.14837E-05	2.59953E-05	3.09365E-05	0.000271768	0.000276154	0.006703137	1.2392E-05	1.14006E-05	6.1745E-08	5.50771E-08	1553.04173	863.4735044	1.871088652	55595.93
Los Angeles (SC)	2023	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	100	Diesel	4.11049E-05	4.9737E-05	5.91911E-05	0.00056877	0.000406399	0.014018177	3.07779E-05	2.83157E-05	1.29241E-07	1.15182E-07	3247.854399	1373.962805	2.98645551	117727.7
Los Angeles (SC)	2023	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	175	Diesel	2.28059E-05	2.75951E-05	3.28405E-05	0.000360873	0.000239305	0.009193782	1.3661E-05	1.25681E-05	8.4887E-08	7.55417E-08	2130.096178	693.3110686	1.447426914	82114.04
Los Angeles (SC)	2023	Agricultural - Swathers/Windrowers/Hay Conditioners	Aggregate	300	Diesel	1.10329E-05	1.33498E-05	1.58873E-05	6.82111E-05	0.000125218	0.004937048	5.10151E-06	4.69339E-06	4.56206E-08	4.05658E-08	1143.858615	220.0746259	0.45598055	45240.77
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Narrow Body	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Narrow Body	Aggregate	50	Diesel	0.000289895	0.000350773	0.000417449	0.00122042	0.001026597	0.10131517	0.000110679	0.000101825	9.28012E-07	8.26921E-07	3287.05911	2474.658771	7.779728758	106754.6
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Narrow Body	Aggregate	75	Diesel	1.6772E-05	2.02941E-05	2.41516E-05	0.000160843	0.000212732	0.023524221	1.62218E-05	1.4924E-05	2.1699E-07	1.92002E-07	763.2174398	460.16145	1.555945752	27549.44
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Narrow Body	Aggregate	100	Diesel	0.000471732	0.000570795	0.000679294	0.006255938	0.005840151	0.954359979	0.000318724	0.000293226	8.80938E-06	7.78936E-06	30963.15848	12607.39095	37.86134662	1118086
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Narrow Body	Aggregate	175	Diesel	0.001046982	0.001266848	0.001507654	0.017573172	0.014872623	2.97153893	0.000790514	0.000727273	2.74419E-05	2.42533E-05	96408.30803	26479.36524	80.39053049	3481212
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Narrow Body	Aggregate	300	Diesel	0.000400899	0.000485088	0.000577295	0.002971605	0.006851247	1.551387769	0.000197308	0.000181524	1.43313E-05	1.26622E-05	50333.06763	8117.087324	24.37648344	1817537
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Narrow Body	Aggregate	750	Diesel	0.000125753	0.000152161	0.000181084	0.000621936	0.00170777	0.103189988	7.90998E-05	7.27718E-05	9.5027E-07	8.42223E-07	3347.885532	172.7039856	0.518648584	120892.8
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Wide Body	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Wide Body	Aggregate	50	Diesel	6.83265E-06	8.26751E-06	9.83902E-06	0.000141584	0.00011123	0.022006986	4.66149E-07	4.28857E-07	2.03261E-07	1.79618E-07	713.9924215	477.3509059	1.182176218	23151.52
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Wide Body	Aggregate	75	Diesel	1.46416E-05	1.77163E-05	2.10839E-05	0.000175366	0.000183476	0.025917819	1.21065E-05	1.11379E-05	2.39184E-07	2.11538E-07	840.8750954	477.3509059	1.182176218	30311.78
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Wide Body	Aggregate	100	Diesel	9.00708E-05	0.000108986	0.000129702	0.000967561	0.001238376	0.14060927	7.59355E-05	6.98606E-05	1.2973E-06	1.14763E-06	4561.912919	1909.403623	4.728704873	164447.4
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Wide Body	Aggregate	175	Diesel	0.000104434	0.000126365	0.000150385	0.002127398	0.00133891	0.374481874	6.23631E-05	5.7374E-05	3.45914E-06	3.05647E-06	12149.65197	2864.105435	7.093057309	437969.5
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Wide Body	Aggregate	300	Diesel	0.000641877	0.000776671	0.000924303	0.006692874	0.007711774	3.5795083	0.000241158	0.000221866	3.30751E-05	2.92155E-05	116133.2047	17315.41368	43.14943196	4186371
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Wide Body	Aggregate	600	Diesel	0.000583243	0.000705724	0.00083987	0.004568665	0.009488226	1.68220349	0.000328455	0.000302179	1.55353E-05	1.37299E-05	54577.23961	5273.746652	13.59502651	1967438
Los Angeles (SC)	2023	AirGrSupp - A/C Tug Wide Body	Aggregate	750	Diesel	8.06998E-05	9.76467E-05	0.000116208	0.000288832	0.001815708	0.140846015	4.72044E-05	4.34281E-05	1.29977E-06	1.14957E-06	4569.593841	261.5621402	1.182176218	164784.1
Los Angeles (SC)	2023	AirGrSupp - Baggage Tug	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	AirGrSupp - Baggage Tug	Aggregate	50	Diesel	0.000203677	0.000246449	0.000293295	0.001848687	0.00153947	0.222337994	9.185E-05	8.4502E-05	2.04951E-06	1.81469E-06	7213.511368	7571.059258	10.4170694	340104.6
Los Angeles (SC)	2023	AirGrSupp - Baggage Tug	Aggregate	75	Diesel	0.000629823	0.000762085	0.000906944	0.010975212	0.008281141	1.591760804	0.000399267	0.000367326	1.46977E-05	1.29917E-05	51642.92629	40722.73673	55.02349476	2706876
Los Angeles (SC)	2023	AirGrSupp - Baggage Tug	Aggregate	100	Diesel	0.000600684	0.000726828	0.000864985	0.011084209	0.008222772	1.599719651	0.000263923	0.000242809	1.47722E-05	1.30567E-05	51901.1423	30422.82211	41.66827759	2723540
Los Angeles (SC)	2023	AirGrSupp - Baggage Tug	Aggregate	175	Diesel	1.45629E-06	1.76211E-06	2.09706E-06	7.82482E-05	7.24031E-06	0.014530789	2.58009E-07	2.37368E-07	1.34301E-07	1.18598E-07	471.4354624	197.683188	0.267104343	24710.4
Los Angeles (SC)	2023	AirGrSupp - Baggage Tug	Aggregate	300	Diesel	5.679E-05	6.87159E-05	8.17776E-05	0.000192052	0.001200643	0.083697347	3.1134E-05	2.86433E-05	7.7212E-07	6.83126E-07	2715.468263	790.7327521	1.068417374	142331.9
Los Angeles (SC)	2023	AirGrSupp - Belt Loader	Aggregate	25	Diesel	8.64568E-07	1.04613E-06	1.24498E-06	2.48854E-05	2.30258E-05	0.004800183	7.94617E-08	7.31048E-08	4.43541E-08	3.91784E-08	155.7366572	323.0032866	0.623876203	8075.082
Los Angeles (SC)	2023	AirGrSupp - Belt Loader	Aggregate	50	Diesel	0.000180325	0.000218193	0.000259667	0.001205313	0.000980061	0.137957265	6.68938E-05	6.15423E-05	1.27007E-06	1.12599E-06	4475.871529	5006.550942	9.670081141	232077.9
Los Angeles (SC)	2023	AirGrSupp - Belt Loader	Aggregate	75	Diesel	0.00060762	0.000735221	0.000874973	0.005843773	0.006552171	0.841455172	0.000468095	0.000430647	7.76144E-06	6.86784E-06	27300.08635	25032.75471	48.35040571	1573672
Los Angeles (SC)	2023	AirGrSupp - Belt Loader	Aggregate	100	Diesel	0.000380058	0.00045987	0.000547283	0.005220348	0.004814107	0.759441722	0.000333432	0.000306757	7.01001E-06	6.19846E-06	24639.25031	16449.70157	32.12962444	1420303
Los Angeles (SC)	2023	AirGrSupp - Belt Loader	Aggregate	175	Diesel	2.24433E-05	2.71563E-05	3.23183E-05	0.000318778	0.000228739	0.051688426	1.55497E-05	1.43057E-05	4.77212E-07	4.21874E-07	1676.974068	715.0243695	1.559690507	96673.23
Los Angeles (SC)	2023	AirGrSupp - Belt Loader	Aggregate	300	Diesel	1.13402E-05	1.37217E-05	1.63299E-05	8.74491E-05	0.000126735	0.045509737	5.83284E-06	5.36621E-06	4.2042E-07	3.71444E-07	1476.513291	323.0032866	0.623876203	85111.37
Los Angeles (SC)	2023	AirGrSupp - Belt Loader	Aggregate	600	Diesel	3.26618E-06	3.95208E-06	4.7033E-06	6.97293E-05	1.92947E-05	0.039292088	6.56278E-07	6.03776E-07	3.63177E-07	3.20697E-07	1274.788515	161.5016433	0.311938101	73483.25
Los Angeles (SC)	2023	AirGrSupp - Belt Loader	Aggregate	750	Diesel	4.01192E-05	4.85443E-05	5.77717E-05	0.000619008	0.000535578	0.023043596	2.72489E-05	2.5069E-05	2.11846E-07	1.88079E-07	747.6240984	69.01779628	0.311938101	43136.12
Los Angeles (SC)	2023	AirGrSupp - Bobtail	Aggregate	25	Diesel	1.81219E-06	2.19275E-06	2.60956E-06	3.42726E-05	4.18869E-05	0.004888603	1.56573E-06	1.44047E-06	4.51432E-08	3.99001E-08	158.6053419	299.1109495	0.642225503	7477.774
Los Angeles (SC)	2023	AirGrSupp - Bobtail	Aggregate	50	Diesel	2.44647E-05	2.96023E-05	3.52292E-05	0.000218462	0.000178414	0.030844282	6.90845E-06	6.35578E-06	2.84437E-07	2.51747E-07	1000.708756	1039.428311	2.568902011	47185.64
Los Angeles (SC)	2023	AirGrSupp - Bobtail	Aggregate	75	Diesel	9.63496E-06	1.16583E-05	1.38743E-05	0.000236379	0.000192972	0.037817179	7.78276E-06	7.16014E-06	3.4935E-07	3.08659E-07	1226.936716	897.3328484	1.926676508	64308.85
Los Angeles (SC)	2023	AirGrSupp - Bobtail	Aggregate	100	Diesel	7.36987E-06	8.91755E-06	1.06126E-05	9.8017E-05	0.000140051	0.014071508	7.80412E-06	7.17979E-06	1.29877E-07	1.1485E-07	456.5345919	299.1109495	0.642225503	23928.88
Los Angeles (SC)	2023	AirGrSupp - Bobtail	Aggregate	175	Diesel	5.95733E-05	7.20837E-05	8.57855E-05	0.000759904	0.000653062	0.116883301	3.98015E-05	3.66174E-05	1.07886E-06	9.53986E-07	3792.149988	1637.65021	3.853353016	198776.6
Los Angeles (SC)	2023	AirGrSupp - Bobtail	Aggregate	300	Diesel	0.000146863	0.000177705	0.000211483	0.001244131	0.001707326	0.523730648	7.21413E-05	6.637E-05	4.83774E-06	4.27462E-06	16991.86409	4329.648755	9.633382541	890636.6
Los Angeles (SC)	2023	AirGrSupp - Cargo Loader	Aggregate	25	Diesel	2.81857E-06	3.41046E-06	4.05873E-06	6.94741E-05	6.0099E-05	0.012278908	2.24812E-07	2.06827E-07	1.1344E-07	1.00219E-07	398.3756483	827.5233774	1.715659557	20688.08
Los Angeles (SC)	2023	AirGrSupp - Cargo Loader	Aggregate	50	Diesel	3.59504E-05	4.35E-05	5.17686E-05	0.000383371	0.000357742	0.053855244	1.28418E-05	1.18144E-05	4.9684E-07	4.39559E-07	1747.274079	2609.102759	5.718865191	90734.02
Los Angeles (SC)	2023	AirGrSupp - Cargo Loader	Aggregate	100	Diesel	0.000596508	0.000721775	0.000858971	0.013132614	0.009317861	2.031132645	0.000348879	0.000320969	1.87609E-05	1.65778E-05	65897.86178	44020.70076	94.36127565	3803500
Los Angeles (SC)	2023	AirGrSupp - Cargo Loader	Aggregate	175	Diesel	0.000535947	0.000648496	0.000771764	0.017879386	0.006451797	3.115246788	0.000206219	0.000189722	2.87859E-05	2.54262E-05	101070.7512	44812.79501	93.21750261	5835075
Los Angeles (SC)	2023	AirGrSupp - Cargo Loader	Aggregate	300	Diesel	5.6243E-05	6.8054E-05	8.09899E-05	0.000574361	0.00057366	0.297202773	2.15444E-05	1.98208E-05	2.7461E-06	2.42573E-06	9642.416646	2609.102759	5.718865191	556667.6
Los Angeles (SC)	2023	AirGrSupp - Cargo Loader	Aggregate	600	Diesel	2.88534E-05	3.49127E-05	4.15489E-05	0.000507703	0.000139494	0.279217553	4.87768E-06	4.48747E-06	2.58064E-06	2.27894E-06	9058.906017	1655.046755	3.431319115	522994.8
Los Angeles (SC)	2023	AirGrSupp - Cargo Loader	Aggregate	750	Diesel	3.44009E-05	4.16251E-05	4.95373E-05	0.000563849	0.000154459	0.306903682	5.46322E-06	5.02617E-06	2.83644E-06	2.50491E-06	9957.151973	827.5233774	1.715659557	574852.9
Los Angeles (SC)	2023	AirGrSupp - Cargo Tractor	Aggregate	25	Diesel	7.80427E-06	9.44317E-06	1.12382E-05	0.000144856	0.000105393	0.020260482	4.82897E-07	4.44265E-07	1.87084E-07	1.65363E-07	657.3290229	1264.413581	1.814203224	31610.34
Los Angeles (SC)	2023	AirGrSupp - Cargo Tractor	Aggregate	50	Diesel	0.000143055	0.000173096	0.000205999	0.000965396	0.00076749	0.104747976	5.31859E-05	4.8931E-05	9.64155E-07	8.54939E-07	3398.432735	4826.848671	8.163914506	163415.4
Los Angeles (SC)	2023	AirGrSupp - Cargo Tractor	Aggregate	75	Diesel	0.001554475	0.001880915	0.002238444	0.013496154	0.014897567	1.852886603	0.001198412	0.001102539	1.70842E-05	1.5123E-05	60114.86525	52959.86249	78.46428942	3220818
Los Angeles (SC)	2023	AirGrSupp - Cargo Tractor	Aggregate	100	Diesel	0.000167249	0.000202372	0.000240839	0.004809445	0.002559428	0.774278681	8.1952E-05	7.53958E-05	7.15357E-06	6.31956E-06	25120.6191	15373.66354	22.6775403	1342973
Los Angeles (SC)	2023	AirGrSupp - Cargo Tractor	Aggregate	175	Diesel	0.000219639	0.000265763	0.00031628	0.003366359	0.002297586	0.558815726	0.000132883	0.000122252	5.15994E-06	4.56098E-06	18130.1608	6738.521585	9.97811773	969253.3
Los Angeles (SC)	2023	AirGrSupp - Cargo Tractor	Aggregate	300	Diesel	0.000224365	0.000271482	0.000323086	0.00173868	0.002658042	0.816321119	8.83325E-05	8.12659E-05	7.54056E-06	6.6627E-06	26484.63967	6522.768474	9.97811773	1415877
Los Angeles (SC)	2023	AirGrSupp - Cargo Tractor	Aggregate	600	Diesel	0.000305507	0.000369663	0.000439929	0.001724347	0.003458887	0.846528123	0.000116309	0.000107004	7.81741E-06	6.90925E-06	27464.67268	3793.240743	5.442609671	1468300
Los Angeles (SC)	2023	AirGrSupp - Forklift	Aggregate	25	Diesel	4.73733E-07	5.73217E-07	6.82175E-07	1.03816E-05	8.43774E-06	0.001689235	3.398E-08	3.12616E-08	1.56036E-08	1.37873E-08	54.80538027	189.4438643	0.479677844	4736.097
Los Angeles (SC)	2023	AirGrSupp - Forklift	Aggregate	50	Diesel	0.000144917	0.00017535	0.000208681	0.000754107	0.00065652	0.075738709	5.89786E-05	5.42603E-05	6.95894E-07	6.18169E-07	2457.258996	5516.690233	14.39033533	212353.8
Los Angeles (SC)	2023	AirGrSupp - Forklift	Aggregate	75	Diesel	5.78817E-05	7.00368E-05	8.33496E-05	0.00034739	0.00061294	0.040171368	4.56643E-05	4.20112E-05	3.69668E-07	3.27873E-07	1303.315804	1833.943964	5.276456289	125397.5
Los Angeles (SC)	2023	AirGrSupp - Forklift	Aggregate	100	Diesel	0.000551556	0.000667383	0.000794241	0.005947482	0.006320096	0.872951112	0.000436788	0.000401845	8.05432E-06	7.12491E-06	28321.93744	30955.76421	81.54523356	2716684
Los Angeles (SC)	2023	AirGrSupp - Forklift	Aggregate	175	Diesel	0.00032626	0.000394775	0.000469815	0.003152155	0.003901021	0.506773082	0.00023472	0.000215942	4.67558E-06	4.13621E-06	16441.69452	12192.86182	32.13841558	1578605
Los Angeles (SC)	2023	AirGrSupp - Forklift	Aggregate	300	Diesel	0.000101523	0.000122843	0.000146193	0.000892106	0.001259241	0.404078056	4.4767E-05	4.11856E-05	3.73286E-06	3.29803E-06	13109.8675	5327.246369	13.91065749	1259515
Los Angeles (SC)	2023	AirGrSupp - Forklift	Aggregate	600	Diesel	3.91123E-05	4.73259E-05	5.63217E-05	0.000139014	0.00087245	0.066978844	2.3029E-05	2.11866E-05	6.18079E-07	5.46672E-07	2173.05482	568.3315929	1.439033533	208767.1
Los Angeles (SC)	2023	AirGrSupp - Lift	Aggregate	25	Diesel	2.45922E-06	2.97566E-06	3.54128E-06	4.57169E-05	5.51586E-05	0.006404916	2.01671E-06	1.85538E-06	5.91428E-08	5.22761E-08	207.8004458	430.9062413	1.025029866	10772.66
Los Angeles (SC)	2023	AirGrSupp - Lift	Aggregate	50	Diesel	6.5071E-05	7.8736E-05	9.37023E-05	0.000942263	0.000930206	0.152273075	2.56325E-05	2.35819E-05	1.40589E-06	1.24283E-06	4940.332217	5715.177516	13.8379032	256117.1
Los Angeles (SC)	2023	AirGrSupp - Lift	Aggregate	75	Diesel	3.85838E-05	4.66863E-05	5.55606E-05	0.000851471	0.000612543	0.132644611	1.70166E-05	1.56552E-05	1.22521E-06	1.08263E-06	4303.508327	3560.64631	8.712753865	248031.9
Los Angeles (SC)	2023	AirGrSupp - Lift	Aggregate	100	Diesel	0.000222257	0.000268931	0.00032005	0.005858459	0.003596526	0.934661581	0.000132792	0.000122168	8.63474E-06	7.62858E-06	30324.06566	20365.98972	48.68891866	1747676
Los Angeles (SC)	2023	AirGrSupp - Lift	Aggregate	175	Diesel	7.27399E-05	8.80153E-05	0.000104745	0.001271301	0.000649254	0.215241598	5.08711E-05	4.68014E-05	1.98783E-06	1.75677E-06	6983.276588	3231.79681	7.687723998	402466.4
Los Angeles (SC)	2023	AirGrSupp - Lift	Aggregate	300	Diesel	7.6488E-05	9.25505E-05	0.000110143	0.001268509	0.000735752	0.451652187	3.3623E-05	3.09332E-05	4.17345E-06	3.68632E-06	14653.35781	3776.09943	9.225268798	844553.6
Los Angeles (SC)	2023	AirGrSupp - Other GSE	Aggregate	25	Diesel	5.65696E-06	6.84492E-06	8.14602E-06	0.000108258	8.05803E-05	0.015628397	3.59605E-07	3.30837E-07	1.44323E-07	1.27557E-07	507.0461382	1051.597345	2.145769592	26289.93
Los Angeles (SC)	2023	AirGrSupp - Other GSE	Aggregate	50	Diesel	0.001676124	0.00202811	0.002413619	0.014419091	0.012907886	1.870233222	0.000681442	0.000626926	1.72409E-05	1.52646E-05	60677.65718	91284.82146	190.9734937	3144063
Los Angeles (SC)	2023	AirGrSupp - Other GSE	Aggregate	75	Diesel	0.00037373	0.000452214	0.000538172	0.006351647	0.005209568	0.966558511	0.000264121	0.000242992	8.9251E-06	7.88892E-06	31358.92643	27765.25586	59.00866379	1807641
Los Angeles (SC)	2023	AirGrSupp - Other GSE	Aggregate	100	Diesel	0.00043347	0.000524498	0.000624196	0.008965368	0.006150316	1.389224487	0.000272317	0.000250532	1.28311E-05	1.13387E-05	45071.85851	29682.10656	61.15443338	2598033
Los Angeles (SC)	2023	AirGrSupp - Other GSE	Aggregate	175	Diesel	0.000829036	0.001003134	0.001193812	0.018750113	0.009563067	3.261372342	0.000405226	0.000372808	3.01281E-05	2.66189E-05	105811.6339	38043.84843	79.39347491	6099262
Los Angeles (SC)	2023	AirGrSupp - Other GSE	Aggregate	300	Diesel	0.000843791	0.001020987	0.001215059	0.008474475	0.009387856	3.781626759	0.000364145	0.000335013	3.49377E-05	3.08651E-05	122690.7155	31734.26435	66.51885736	7072233
Los Angeles (SC)	2023	AirGrSupp - Other GSE	Aggregate	600	Diesel	0.000519327	0.000628386	0.000747831	0.005337597	0.005738223	2.266793619	0.000233159	0.000214507	2.09421E-05	1.85013E-05	73543.62255	11804.95169	24.67635031	4239251
Los Angeles (SC)	2023	AirGrSupp - Passenger Stand	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	AirGrSupp - Passenger Stand	Aggregate	50	Diesel	1.13795E-05	1.37692E-05	1.63865E-05	0.000104402	0.000129237	0.018984061	6.58774E-06	6.06072E-06	1.75176E-07	1.54945E-07	615.916957	629.9435399	11.06251072	27234.43
Los Angeles (SC)	2023	AirGrSupp - Passenger Stand	Aggregate	75	Diesel	2.19363E-06	2.6543E-06	3.15883E-06	0.000117829	6.17457E-05	0.020285251	4.08748E-07	3.76048E-07	1.87481E-07	1.65565E-07	658.1326187	591.296697	15.72040997	32499.42
Los Angeles (SC)	2023	AirGrSupp - Passenger Stand	Aggregate	100	Diesel	2.84703E-06	3.4449E-06	4.09972E-06	1.28578E-05	3.22497E-05	0.001366931	1.71522E-06	1.578E-06	1.25525E-08	1.11567E-08	44.34855921	21.89987767	0.582237406	2189.988
Los Angeles (SC)	2023	AirGrSupp - Passenger Stand	Aggregate	175	Diesel	5.87602E-06	7.10998E-06	8.46146E-06	5.56158E-05	9.15628E-05	0.008932574	5.53781E-06	5.09479E-06	8.24098E-08	7.29065E-08	289.807517	128.8228098	0.582237406	14170.51
Los Angeles (SC)	2023	AirGrSupp - Passenger Stand	Aggregate	300	Diesel	1.91819E-06	2.32101E-06	2.76219E-06	1.30959E-05	4.38178E-05	0.007449772	9.37032E-07	8.62069E-07	6.88193E-08	6.0804E-08	241.6996477	43.79975533	1.164474813	11935.43
Los Angeles (SC)	2023	AirGrSupp - Passenger Stand	Aggregate	600	Diesel	6.11588E-07	7.40022E-07	8.80687E-07	1.47303E-05	4.09134E-06	0.008406623	1.37104E-07	1.26136E-07	7.77051E-08	6.86137E-08	272.7436392	43.79975533	1.164474813	13468.42
Los Angeles (SC)	2023	CHC - AE Barge and Dredge	Aggregate		Diesel	0.003425126	0.004144402	0.004932181	0.045824349	0.107610539	3.368749467	0.00273122	0.002512722	3.1043E-05	0.000195041	775301.1635	0	0	0
Los Angeles (SC)	2023	CHC - AE Charter Fishing	Aggregate		Diesel	0.002923948	0.003537977	0.004210485	0.012226442	0.015851088	0.223645319	0.000840294	0.000773071	1.97999E-06	1.29485E-05	51470.87291	0	0	0
Los Angeles (SC)	2023	CHC - AE Commercial Fishing	Aggregate		Diesel	0.002090926	0.00253002	0.003010933	0.00974922	0.018343192	0.166909042	0.001019014	0.000937492	1.48043E-06	9.66358E-06	38413.29722	0	0	0
Los Angeles (SC)	2023	CHC - AE Crew and Supply	Aggregate		Diesel	0.000711733	0.000861197	0.001024896	0.002643886	0.00331845	0.055169409	0.000125234	0.000115215	4.88717E-07	3.19416E-06	12696.96885	0	0	0
Los Angeles (SC)	2023	CHC - AE Ferry and Excursion	Aggregate		Diesel	0.009568371	0.011577729	0.013778454	0.054350056	0.064621174	1.109034292	0.002287414	0.002104421	9.96652E-06	6.42101E-05	255238.8017	0	0	0
Los Angeles (SC)	2023	CHC - AE Others	Aggregate		Diesel	0.000326763	0.000395384	0.000470539	0.001371979	0.001891068	0.023891121	0.000106472	9.79543E-05	2.11082E-07	1.38323E-06	5498.424214	0	0	0
Los Angeles (SC)	2023	CHC - AE Pilot Vessels	Aggregate		Diesel	6.2086E-05	7.51241E-05	8.94039E-05	0.000203269	0.000216402	0.003065196	1.38987E-05	1.27868E-05	2.64767E-08	1.77466E-07	705.4398136	0	0	0
Los Angeles (SC)	2023	CHC - AE Tow Boats	Aggregate		Diesel	8.97432E-05	0.000108589	0.00012923	0.000519827	0.000669453	0.0109018	2.59079E-05	2.38352E-05	9.81003E-08	6.31185E-07	2508.995897	0	0	0
Los Angeles (SC)	2023	CHC - AE Tug Boats	Aggregate		Diesel	0.002780728	0.003364681	0.004004249	0.016558332	0.0205278	0.346715187	0.000737255	0.000678274	3.12213E-06	2.00739E-05	79794.7994	0	0	0
Los Angeles (SC)	2023	CHC - AE Work Boats	Aggregate		Diesel	0.000264606	0.000320173	0.000381032	0.001679402	0.002070946	0.034714069	6.71423E-05	6.17709E-05	3.13011E-07	2.00985E-06	7989.272619	0	0	0
Los Angeles (SC)	2023	CHC - ME Barge and Dredge	Aggregate		Diesel	0.000566865	0.000685907	0.000816286	0.005324384	0.02064836	0.402727469	0.000578512	0.000532231	3.70641E-06	2.33168E-05	92685.75121	0	0	0
Los Angeles (SC)	2023	CHC - ME Charter Fishing	Aggregate		Diesel	0.024189676	0.029269507	0.034833133	0.165265041	0.308217646	3.741631565	0.012206107	0.011229618	3.38675E-05	0.00021663	861118.149	0	0	0
Los Angeles (SC)	2023	CHC - ME Commercial Fishing	Aggregate		Diesel	0.005860081	0.007090697	0.008438516	0.027980914	0.103529557	0.667779216	0.004542329	0.004178943	5.99815E-06	3.86626E-05	153686.1105	0	0	0
Los Angeles (SC)	2023	CHC - ME Crew and Supply	Aggregate		Diesel	0.013534668	0.016376949	0.019489923	0.099531301	0.10895288	2.070520163	0.002588581	0.002381495	1.87369E-05	0.000119877	476520.0581	0	0	0
Los Angeles (SC)	2023	CHC - ME Ferry and Excursion	Aggregate		Diesel	0.152390404	0.184392389	0.219442181	1.392465083	1.47029239	28.07901744	0.038228466	0.035170189	0.000255033	0.001625699	6462248.114	0	0	0
Los Angeles (SC)	2023	CHC - ME Others	Aggregate		Diesel	0.005852474	0.007081493	0.008427562	0.033647437	0.085638425	0.810585991	0.003903659	0.003591366	7.3187E-06	4.69307E-05	186552.3894	0	0	0
Los Angeles (SC)	2023	CHC - ME Pilot Vessels	Aggregate		Diesel	0.004383894	0.005304511	0.006312807	0.028746785	0.054370976	0.708991801	0.002298654	0.002114762	6.42346E-06	4.10487E-05	163170.985	0	0	0
Los Angeles (SC)	2023	CHC - ME Tow Boats	Aggregate		Diesel	0.00077748	0.000940751	0.001119572	0.007111005	0.007462222	0.147035729	0.000171322	0.000157616	1.33609E-06	8.51297E-06	33839.5517	0	0	0
Los Angeles (SC)	2023	CHC - ME Tug Boats	Aggregate		Diesel	0.047406194	0.057361495	0.068264919	0.42450735	0.503186077	8.613105368	0.015040389	0.013837158	7.82102E-05	0.000498675	1982263.946	0	0	0
Los Angeles (SC)	2023	CHC - ME Work Boats	Aggregate		Diesel	0.002087372	0.00252572	0.003005816	0.01437996	0.024753821	0.321878061	0.001007983	0.000927344	2.9133E-06	1.86359E-05	74078.65662	0	0	0
Los Angeles (SC)	2023	CHE - Port Construction Equipment	Aggregate	50	Diesel	0.00036687	0.000443913	0.000528293	0.00358831	0.002475549	0.34989628	3.87041E-05	3.56078E-05	3.22396E-06	2.85581E-06	11351.99947	7974.54074	2.429141875	358854.3
Los Angeles (SC)	2023	CHE - Port Construction Equipment	Aggregate	75	Diesel	0.001046737	0.001266551	0.001507301	0.010822522	0.011242005	1.581928007	0.000201825	0.000185679	1.45943E-05	1.29115E-05	51323.912	24180.50923	7.537381429	1621421
Los Angeles (SC)	2023	CHE - Port Construction Equipment	Aggregate	100	Diesel	0.000777505	0.000940781	0.001119608	0.013097526	0.004430639	1.960604624	0.00011091	0.000102037	1.81034E-05	1.60022E-05	63609.65779	23853.15004	8.13206329	2000914
Los Angeles (SC)	2023	CHE - Port Construction Equipment	Aggregate	175	Diesel	0.002449262	0.002963607	0.003526937	0.036025819	0.021812145	5.427101658	0.000363087	0.00033404	5.01028E-05	4.42953E-05	176076.3364	44896.88296	14.81037475	6216955
Los Angeles (SC)	2023	CHE - Port Construction Equipment	Aggregate	300	Diesel	0.004304071	0.005207926	0.006197863	0.028021427	0.038169419	10.9014109	0.000522842	0.000481014	0.00010066	8.89759E-05	353684.2708	50957.34989	17.3088065	12502197
Los Angeles (SC)	2023	CHE - Port Construction Equipment	Aggregate	600	Diesel	0.015637896	0.018921854	0.02251857	0.104761151	0.133189128	44.89890515	0.001638894	0.001507782	0.000414644	0.000366459	1456695.53	134598.3154	45.54586463	50790890
Los Angeles (SC)	2023	CHE - Port Container Handling Equipment	Aggregate	175	Diesel	0.005752013	0.006959936	0.008282899	0.109740456	0.042082557	17.49383136	0.000652424	0.00060023	0.000161567	0.000142782	567568.0925	121944.4226	49.5792847	18553195
Los Angeles (SC)	2023	CHE - Port Container Handling Equipment	Aggregate	300	Diesel	0.032915853	0.039828182	0.047398829	0.275969004	0.236692861	126.9491283	0.00327835	0.003016082	0.00117272	0.001036142	4118724.658	534473.0803	216.4218465	1.35E+08
Los Angeles (SC)	2023	CHE - Port Container Handling Equipment	Aggregate	600	Diesel	0.033180575	0.040148496	0.047780028	0.277708024	0.195190601	136.3422203	0.003211761	0.002954821	0.001259556	0.001112807	4423473.184	434271.2955	172.9926918	1.45E+08
Los Angeles (SC)	2023	CHE - Port Forklift	Aggregate	50	Diesel	0.000291855	0.000353144	0.000420271	0.003873366	0.003074985	0.467211235	6.73861E-05	6.19952E-05	4.31084E-06	3.81332E-06	15158.15399	20639.92922	22.11624277	872462.4
Los Angeles (SC)	2023	CHE - Port Forklift	Aggregate	75	Diesel	0.000334709	0.000404998	0.000481981	0.005402021	0.004973048	0.872205321	9.46861E-05	8.71112E-05	8.05393E-06	7.11882E-06	28297.74108	23948.25058	25.51118304	1631310
Los Angeles (SC)	2023	CHE - Port Forklift	Aggregate	100	Diesel	0.000956744	0.00115766	0.001377711	0.028128642	0.003674701	4.692011462	0.000167014	0.000153653	4.33513E-05	3.82956E-05	152227.1445	102229.9226	112.0840296	8811182
Los Angeles (SC)	2023	CHE - Port Forklift	Aggregate	175	Diesel	0.002775532	0.003358393	0.003996766	0.067423171	0.022609642	11.28746053	0.000468768	0.000431267	0.000104275	9.21267E-05	366209.2259	160540.4549	170.3480724	23584147
Los Angeles (SC)	2023	CHE - Port Forklift	Aggregate	300	Diesel	0.001357167	0.001642173	0.001954321	0.012663378	0.00977753	6.203957479	0.000166022	0.000152741	5.73179E-05	5.06359E-05	201280.568	61164.55196	67.51211351	12993363
Los Angeles (SC)	2023	CHE - Port Forklift	Aggregate	600	Diesel	0.000328229	0.000397157	0.00047265	0.003654249	0.001806558	1.896477087	3.85548E-05	3.54704E-05	1.7524E-05	1.54788E-05	61529.1105	12334.56757	13.51879686	3976216
Los Angeles (SC)	2023	CHE - Port Other General Industrial Equipment	Aggregate	50	Diesel	0.001394465	0.001687303	0.00200803	0.013036095	0.009371289	1.312117879	0.000170278	0.000156656	1.20893E-05	1.07093E-05	42570.21953	31741.13548	14.8523305	1448447
Los Angeles (SC)	2023	CHE - Port Other General Industrial Equipment	Aggregate	75	Diesel	0.000653578	0.000790829	0.000941152	0.00726366	0.007442289	1.096197532	0.000143915	0.000132402	1.01153E-05	8.94702E-06	35564.92169	19008.50024	9.882141224	1201182
Los Angeles (SC)	2023	CHE - Port Other General Industrial Equipment	Aggregate	100	Diesel	0.001229201	0.001487333	0.001770049	0.018498924	0.007047684	2.811848018	0.000187162	0.000172189	2.59601E-05	2.29499E-05	91227.31225	37429.64927	18.48031389	3123233
Los Angeles (SC)	2023	CHE - Port Other General Industrial Equipment	Aggregate	175	Diesel	0.002564969	0.003103612	0.003693555	0.036618415	0.024063011	5.708447432	0.000465458	0.000428222	5.27005E-05	4.65916E-05	185204.2902	52079.43927	27.55401099	6900752
Los Angeles (SC)	2023	CHE - Port Other General Industrial Equipment	Aggregate	300	Diesel	0.001759565	0.002129074	0.002533774	0.011678406	0.016026859	4.777875626	0.000220884	0.000203213	4.4121E-05	3.89964E-05	155012.9128	26555.17292	13.26408708	6042646
Los Angeles (SC)	2023	CHE - Port Other General Industrial Equipment	Aggregate	600	Diesel	0.003284362	0.003974078	0.004729482	0.031230043	0.031659475	7.026532388	0.000522437	0.000480642	6.48652E-05	5.73496E-05	227968.105	18441.04566	8.31430999	8571850
Los Angeles (SC)	2023	CHE - Port RTG Crane	Aggregate	300	Diesel	0.000752419	0.000910427	0.001083483	0.006128177	0.005637923	2.445780814	9.11472E-05	8.38554E-05	2.25899E-05	1.99621E-05	79350.66498	33459.44915	17.92470654	7667189
Los Angeles (SC)	2023	CHE - Port RTG Crane	Aggregate	600	Diesel	0.008553603	0.01034986	0.012317188	0.071699343	0.057196686	35.12991314	0.00086388	0.000794769	0.000324537	0.000286726	1139751.343	221691.1198	114.5169554	1.1E+08
Los Angeles (SC)	2023	CHE - Port RTG Crane	Aggregate	750	Diesel	0.009280801	0.01122977	0.013364354	0.077561104	0.05946235	38.57364857	0.000907331	0.000834744	0.000356354	0.000314833	1251479.547	184010.8288	94.7535237	1.21E+08
Los Angeles (SC)	2023	CHE - Port RTG Crane	Aggregate	9999	Diesel	0.005473026	0.006622361	0.007881157	0.040232301	0.106260816	19.98092632	0.001228496	0.001130216	0.000184569	0.000163082	648259.1495	65294.45501	34.81370238	62650030
Los Angeles (SC)	2023	CHE - Port Yard Tractor	Aggregate	175	Diesel	0.02175437	0.026322788	0.031326293	1.908768832	0.124451134	305.5595498	0.004781122	0.004398632	0.002824397	0.002493936	9913543.078	2836409.261	1167.093412	4.91E+08
Los Angeles (SC)	2023	CHE - Port Yard Tractor	Aggregate	300	Diesel	0.019856606	0.024026494	0.028593513	0.606673051	0.10604642	283.9677547	0.004054648	0.003730276	0.002624827	0.002317707	9213021.066	2073549.285	801.2495609	4.56E+08
Los Angeles (SC)	2023	CHE - Port Yard Tractor	Aggregate	600	Diesel	0.000156039	0.000188807	0.000224696	0.004626328	0.000926396	2.288179649	3.23526E-05	2.97644E-05	2.11507E-05	1.86758E-05	74237.46872	11497.70577	5.152730295	3679266
Los Angeles (SC)	2023	CHE - Rail Container Handling Equipment	Aggregate	175	Diesel	0.001720751	0.002082109	0.002477882	0.023782297	0.015919147	3.650089631	0.000255665	0.000235212	3.36953E-05	2.97915E-05	118423.1382	26442.23326	8.828710778	3897083
Los Angeles (SC)	2023	CHE - Rail Container Handling Equipment	Aggregate	300	Diesel	0.003995812	0.004834932	0.005753969	0.025257943	0.03448682	10.51748528	0.000426155	0.000392062	9.71195E-05	8.58423E-05	341228.227	51688.14861	12.69214685	11183789
Los Angeles (SC)	2023	CHE - Rail Container Handling Equipment	Aggregate	600	Diesel	0.001030468	0.001246866	0.001483874	0.006729745	0.009256544	2.518883142	0.000144716	0.000133139	2.32574E-05	2.05588E-05	81722.38948	7671.420206	3.5430903	2657129
Los Angeles (SC)	2023	CHE - Rail Forklift	Aggregate	75	Diesel	4.73825E-05	5.73328E-05	6.82307E-05	0.000593518	0.000612536	0.092295897	2.30831E-05	2.12365E-05	8.519E-07	7.53307E-07	2994.438737	2784.084086	2.181373989	173541.2
Los Angeles (SC)	2023	CHE - Rail Forklift	Aggregate	100	Diesel	0.000125778	0.000152191	0.00018112	0.002978595	0.000418485	0.461011812	1.94227E-05	1.78689E-05	4.25851E-06	3.76272E-06	14957.02052	10382.09473	4.299412324	854362.7
Los Angeles (SC)	2023	CHE - Rail Forklift	Aggregate	175	Diesel	0.000144954	0.000175394	0.000208733	0.003511611	0.000656401	0.540632284	1.40473E-05	1.29236E-05	4.99406E-06	4.41257E-06	17540.21906	7169.003659	2.493093532	1113583
Los Angeles (SC)	2023	CHE - Rail Forklift	Aggregate	300	Diesel	3.73721E-05	4.52202E-05	5.38158E-05	0.000273507	0.000341984	0.124157615	6.73861E-06	6.19952E-06	1.14678E-06	1.01336E-06	4028.157093	1081.375495	0.847274832	259530.1
Los Angeles (SC)	2023	CHE - Rail Other General Industrial Equipment	Aggregate	50	Diesel	0.000598861	0.000724622	0.00086236	0.004894522	0.003496902	0.452414288	9.40709E-05	8.65453E-05	4.16483E-06	3.69254E-06	14678.08334	10722.61998	2.969145111	500388.9
Los Angeles (SC)	2023	CHE - Rail Other General Industrial Equipment	Aggregate	175	Diesel	1.26224E-05	1.52732E-05	1.81763E-05	0.000222074	0.000162695	0.039508719	2.39961E-06	2.20764E-06	3.64899E-07	3.22465E-07	1281.816892	422.4356821	0.919186847	48580.1
Los Angeles (SC)	2023	CHE - Rail Other General Industrial Equipment	Aggregate	300	Diesel	0.000278066	0.00033646	0.000400416	0.001838102	0.002783871	0.737749999	3.83595E-05	3.52907E-05	6.81252E-06	6.02142E-06	23935.48624	4358.854232	3.180729682	1002154
Los Angeles (SC)	2023	CHE - Rail RTG Crane	Aggregate	300	Diesel	0.007759092	0.009388502	0.011173093	0.053912872	0.063183047	22.89245147	0.000748818	0.000688913	0.000211419	0.000186845	742720.3763	268491.9448	55.83307378	71789855
Los Angeles (SC)	2023	CHE - Rail RTG Crane	Aggregate	600	Diesel	0.001117994	0.001352773	0.001609911	0.007884881	0.007601674	3.757593142	9.5708E-05	8.80514E-05	3.47073E-05	3.0669E-05	121910.9713	32390.76184	6.434843413	11828109
Los Angeles (SC)	2023	CHE - Rail Yard Tractor	Aggregate	175	Diesel	0.013711668	0.016591119	0.019744803	0.930460658	0.05995844	150.1161952	0.002457363	0.002260774	0.001387487	0.001225228	4870354.63	1523833.118	350.3856601	2.41E+08
Los Angeles (SC)	2023	CHE - Rail Yard Tractor	Aggregate	300	Diesel	0.005902505	0.007142031	0.008499607	0.144912884	0.027322528	70.0132373	0.001050359	0.00096633	0.00064713	0.000571439	2271502.378	562886.9942	146.8528134	1.13E+08
Los Angeles (SC)	2023	ConstMin - Bore/Drill Rigs	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Bore/Drill Rigs	Aggregate	50	Diesel	0.000193294	0.000233886	0.000278344	0.001663941	0.001624392	0.229690975	8.71801E-05	8.02057E-05	2.11781E-06	1.87471E-06	7452.070739	6490.692533	18.02533051	252104
Los Angeles (SC)	2023	ConstMin - Bore/Drill Rigs	Aggregate	75	Diesel	0.000116595	0.00014108	0.000167896	0.002142156	0.002162981	0.337226759	0.00010275	9.45301E-05	3.11433E-06	2.7524E-06	10940.95079	5978.979094	12.33312088	428941.5
Los Angeles (SC)	2023	ConstMin - Bore/Drill Rigs	Aggregate	100	Diesel	0.000306862	0.000371303	0.000441881	0.006882012	0.004319089	1.092737997	0.000174196	0.00016026	1.00937E-05	8.91878E-06	35452.68087	16264.77001	42.69157226	1375944
Los Angeles (SC)	2023	ConstMin - Bore/Drill Rigs	Aggregate	175	Diesel	0.000329595	0.00039881	0.000474617	0.009293041	0.003429773	1.677673698	0.000154248	0.000141908	1.5501E-05	1.36929E-05	54430.27551	13913.60681	43.45053355	2080346
Los Angeles (SC)	2023	ConstMin - Bore/Drill Rigs	Aggregate	300	Diesel	0.000454728	0.000550221	0.000654808	0.004927658	0.005557563	2.447114736	0.000177916	0.000163682	2.26111E-05	1.9973E-05	79393.94261	14661.88357	44.7787158	3079775
Los Angeles (SC)	2023	ConstMin - Bore/Drill Rigs	Aggregate	600	Diesel	0.00060247	0.000728989	0.000867557	0.00726107	0.006004214	3.880819901	0.000207336	0.000190749	3.5862E-05	3.16747E-05	125908.9277	12116.47096	35.8609207	4909241
Los Angeles (SC)	2023	ConstMin - Bore/Drill Rigs	Aggregate	750	Diesel	0.000283989	0.000343627	0.000408944	0.004158356	0.002545453	2.290731873	9.87607E-05	9.08598E-05	2.11704E-05	1.86966E-05	74320.27282	4419.722033	7.589612847	2830757
Los Angeles (SC)	2023	ConstMin - Bore/Drill Rigs	Aggregate	9999	Diesel	0.000326979	0.000395645	0.00047085	0.00234205	0.009123931	1.249644163	0.000210104	0.000193295	1.15438E-05	1.01994E-05	40543.32865	839.9203883	1.138441927	1562711
Los Angeles (SC)	2023	ConstMin - Cranes	Aggregate	25	Diesel	7.48575E-06	9.05776E-06	1.07795E-05	4.20772E-05	3.6384E-05	0.004419871	2.82641E-06	2.6003E-06	4.06393E-08	3.60744E-08	143.3978627	346.3918684	0.71489451	8659.797
Los Angeles (SC)	2023	ConstMin - Cranes	Aggregate	50	Diesel	0.000214504	0.00025955	0.000308886	0.000936061	0.000740938	0.071609157	7.69231E-05	7.07693E-05	6.55627E-07	5.84464E-07	2323.280226	3369.473207	7.625541439	138931.9
Los Angeles (SC)	2023	ConstMin - Cranes	Aggregate	75	Diesel	5.65924E-05	6.84768E-05	8.1493E-05	0.000236058	0.000513768	0.027429939	4.8229E-05	4.43707E-05	2.51906E-07	2.23879E-07	889.9341635	884.4282046	2.3829817	59366.28
Los Angeles (SC)	2023	ConstMin - Cranes	Aggregate	100	Diesel	0.001385648	0.001676634	0.001995333	0.012147367	0.01491033	1.616970487	0.000974261	0.000896332	1.49081E-05	1.31975E-05	52460.82667	40123.35763	89.36181374	3532661
Los Angeles (SC)	2023	ConstMin - Cranes	Aggregate	175	Diesel	0.003286213	0.003976318	0.004732147	0.032282153	0.039478088	4.957538453	0.002108502	0.001939822	4.57363E-05	4.04628E-05	160841.8754	73781.19262	159.6597739	10779864
Los Angeles (SC)	2023	ConstMin - Cranes	Aggregate	300	Diesel	0.004188344	0.005067896	0.006031215	0.029078603	0.055808398	8.502820015	0.002339268	0.002152127	7.84871E-05	6.93989E-05	275864.6312	84162.76068	176.5789439	18527938
Los Angeles (SC)	2023	ConstMin - Cranes	Aggregate	600	Diesel	0.004994693	0.006043578	0.007192358	0.048344878	0.06337868	14.97927077	0.002530856	0.002328388	0.000138341	0.000122259	485985.9435	88829.41361	177.0555403	32636296
Los Angeles (SC)	2023	ConstMin - Cranes	Aggregate	750	Diesel	0.000154906	0.000187436	0.000223065	0.001415967	0.001924179	0.25976148	9.49403E-05	8.73451E-05	2.39698E-06	2.12014E-06	8427.675149	887.7324196	2.14468353	566280.5
Los Angeles (SC)	2023	ConstMin - Cranes	Aggregate	9999	Diesel	0.000757281	0.00091631	0.001090484	0.007588761	0.011068158	0.822976945	0.000485438	0.000446603	7.58611E-06	6.71703E-06	26700.58065	1911.488355	3.812770719	1793466
Los Angeles (SC)	2023	ConstMin - Crawler Tractors	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Crawler Tractors	Aggregate	50	Diesel	0.00062173	0.000752293	0.000895291	0.002822784	0.002139174	0.231931403	0.000211383	0.000194473	2.12567E-06	1.89299E-06	7524.758943	7300.903165	21.14960858	307546.3
Los Angeles (SC)	2023	ConstMin - Crawler Tractors	Aggregate	75	Diesel	0.000109598	0.000132613	0.000157821	0.000429901	0.001050223	0.035894627	7.70004E-05	7.08404E-05	3.28576E-07	2.92967E-07	1164.561643	750.2518064	3.595433458	52417.53

Los Angeles (SC)	2023	ConstMin - Crawler Tractors	Aggregate	100	Diesel	0.008741442	0.010577144	0.012587676	0.074349305	0.09038398	10.20989617	0.007082371	0.006515782	9.41333E-05	8.33318E-05	331248.8369	170422.7526	359.7548419	14906491
Los Angeles (SC)	2023	ConstMin - Crawler Tractors	Aggregate	175	Diesel	0.006099319	0.007380175	0.008783019	0.068595748	0.070749694	11.18081741	0.003939238	0.003624099	0.000103189	9.12563E-05	362749.3074	109504.5054	238.7790808	16356699
Los Angeles (SC)	2023	ConstMin - Crawler Tractors	Aggregate	300	Diesel	0.005966256	0.00721917	0.008591408	0.04247168	0.081599326	11.70721033	0.003380673	0.003110219	0.00010806	9.55527E-05	379827.5458	83503.02605	184.847579	17145249
Los Angeles (SC)	2023	ConstMin - Crawler Tractors	Aggregate	600	Diesel	0.013272564	0.016059802	0.019112492	0.116071547	0.16407598	41.00862347	0.006414101	0.005900973	0.000378747	0.000334707	1330479.626	155572.4101	324.0120034	60006223
Los Angeles (SC)	2023	ConstMin - Crawler Tractors	Aggregate	750	Diesel	0.000287182	0.000347491	0.000413542	0.002134191	0.004338096	0.418674819	0.000155967	0.00014349	3.86224E-06	3.41717E-06	13583.44341	988.0351965	2.326456944	616125.4
Los Angeles (SC)	2023	ConstMin - Crawler Tractors	Aggregate	9999	Diesel	0.00106848	0.00129286	0.001538611	0.0067554	0.023113706	2.374069416	0.000579916	0.000533523	2.19174E-05	1.93768E-05	77024.06764	3553.55424	6.344882573	3457342
Los Angeles (SC)	2023	ConstMin - Excavators	Aggregate	25	Diesel	1.60879E-05	1.94663E-05	2.31666E-05	5.46651E-05	3.71309E-05	0.002876397	5.17494E-06	4.76094E-06	2.61111E-08	2.34768E-08	93.32153397	170.1849058	0.635756997	4254.623
Los Angeles (SC)	2023	ConstMin - Excavators	Aggregate	50	Diesel	0.005855686	0.00708538	0.008432188	0.066769514	0.056680136	9.273211216	0.002195284	0.002019661	8.55598E-05	7.56867E-05	300859.1253	382719.6521	517.0823576	13699941
Los Angeles (SC)	2023	ConstMin - Excavators	Aggregate	75	Diesel	7.27892E-05	8.80749E-05	0.000104816	0.000881726	0.001237129	0.120845464	7.38746E-05	6.79646E-05	1.11509E-06	9.86324E-07	3920.697993	2761.892882	4.23837998	200099.1
Los Angeles (SC)	2023	ConstMin - Excavators	Aggregate	100	Diesel	0.004235491	0.005124945	0.006099108	0.078466394	0.052927461	11.9051755	0.002552673	0.002348459	0.000109942	9.71684E-05	386250.3078	241381.2102	368.5271393	19644997
Los Angeles (SC)	2023	ConstMin - Excavators	Aggregate	175	Diesel	0.007152784	0.008654868	0.010300008	0.148128215	0.071010682	25.40881075	0.00349395	0.003214434	0.000234702	0.000207383	824360.882	285667.4855	477.4535048	41715600
Los Angeles (SC)	2023	ConstMin - Excavators	Aggregate	300	Diesel	0.007298104	0.008830706	0.01050927	0.067947767	0.075632798	32.3463888	0.002451273	0.002255172	0.000298839	0.000264007	1049442.961	242915.0782	410.9109391	53073132
Los Angeles (SC)	2023	ConstMin - Excavators	Aggregate	600	Diesel	0.011025917	0.013341359	0.01587732	0.114131087	0.097139519	57.65366546	0.003281301	0.003018797	0.000532706	0.000470561	1870509.682	280317.3128	432.314758	94892976
Los Angeles (SC)	2023	ConstMin - Excavators	Aggregate	750	Diesel	0.000202469	0.000244988	0.000291556	0.001897261	0.002708136	0.600005924	0.000107583	9.89765E-05	5.54128E-06	4.89717E-06	19466.53141	1564.231911	2.966865986	976899.8
Los Angeles (SC)	2023	ConstMin - Excavators	Aggregate	9999	Diesel	0.000219963	0.000266155	0.000316747	0.002983222	0.007087041	1.601492267	7.12451E-05	6.55455E-05	1.48E-05	1.30712E-05	51958.65286	2182.28472	3.178784985	2627386
Los Angeles (SC)	2023	ConstMin - Graders	Aggregate	25	Diesel	4.99028E-06	6.03823E-06	7.186E-06	2.35081E-05	1.84931E-05	0.001782885	2.22859E-06	2.0503E-06	1.63339E-08	1.45517E-08	57.84374789	98.42837163	0.425916009	2460.709
Los Angeles (SC)	2023	ConstMin - Graders	Aggregate	50	Diesel	0.000173974	0.000210508	0.000250522	0.000776352	0.000554126	0.059682944	5.88504E-05	5.41424E-05	5.46579E-07	4.87124E-07	1936.34738	2202.088744	6.175782134	82293.91
Los Angeles (SC)	2023	ConstMin - Graders	Aggregate	75	Diesel	5.12E-05	6.1952E-05	7.3728E-05	0.000209012	0.000483067	0.022177486	4.0946E-05	3.76703E-05	2.03506E-07	1.8101E-07	719.5241189	468.5190489	1.277748028	32772.3
Los Angeles (SC)	2023	ConstMin - Graders	Aggregate	100	Diesel	0.001726914	0.002089566	0.002486756	0.011745504	0.016490737	1.436126196	0.001275842	0.001173775	1.32259E-05	1.17215E-05	46593.53282	24759.41081	64.31331739	2233155
Los Angeles (SC)	2023	ConstMin - Graders	Aggregate	175	Diesel	0.009270682	0.011217525	0.013349782	0.099652924	0.102170834	15.44337445	0.005618904	0.005169392	0.000142504	0.000126047	501043.2762	158792.0312	333.4922352	23607776
Los Angeles (SC)	2023	ConstMin - Graders	Aggregate	300	Diesel	0.014289966	0.017290859	0.020577551	0.078091327	0.196223312	32.02815839	0.006556112	0.006031623	0.000295688	0.00026141	1039118.326	228531.2393	298.1412065	49114054
Los Angeles (SC)	2023	ConstMin - Graders	Aggregate	600	Diesel	0.001102635	0.001334188	0.001587795	0.004446741	0.014802901	2.069144646	0.000532105	0.000489537	1.90972E-05	1.68881E-05	67131.11928	9531.803508	11.71269025	3184605
Los Angeles (SC)	2023	ConstMin - Graders	Aggregate	9999	Diesel	0.000829558	0.001003765	0.001194563	0.004211919	0.013746232	1.110637636	0.000423177	0.000389323	1.02435E-05	9.06488E-06	36033.41494	942.4516583	1.277748028	1705292
Los Angeles (SC)	2023	ConstMin - Off-Highway Tractors	Aggregate	25	Diesel	5.32654E-06	6.44511E-06	7.67021E-06	1.77107E-05	1.21952E-05	0.000931909	1.6766E-06	1.54247E-06	8.45617E-09	7.60612E-09	30.23476858	48.32222968	0.209098361	1208.056
Los Angeles (SC)	2023	ConstMin - Off-Highway Tractors	Aggregate	50	Diesel	0.003555473	0.004302122	0.005119881	0.031745531	0.026162365	3.839643354	0.001331049	0.001224565	3.53927E-05	3.13387E-05	124573	132242.9627	198.2252466	4984459
Los Angeles (SC)	2023	ConstMin - Off-Highway Tractors	Aggregate	75	Diesel	0.001080291	0.001307152	0.001555618	0.014868905	0.012278655	2.11652817	0.000672639	0.000618828	1.95359E-05	1.72748E-05	68668.42555	43210.46261	71.30254123	3048646
Los Angeles (SC)	2023	ConstMin - Off-Highway Tractors	Aggregate	100	Diesel	0.001327675	0.001606486	0.001911852	0.019090372	0.016234043	2.789014461	0.001051042	0.000966959	2.5746E-05	2.27636E-05	90486.50263	50841.26751	72.97532812	4011010
Los Angeles (SC)	2023	ConstMin - Off-Highway Tractors	Aggregate	175	Diesel	0.001311882	0.001587377	0.00188911	0.024824556	0.014095369	4.178453924	0.00067426	0.00062032	3.85925E-05	3.4104E-05	135565.3358	38018.96387	54.78377068	6022114
Los Angeles (SC)	2023	ConstMin - Off-Highway Tractors	Aggregate	300	Diesel	0.001018351	0.001232205	0.001466426	0.00790681	0.010734908	3.645473151	0.000393754	0.000362254	3.36737E-05	2.97539E-05	118273.3616	24383.63871	37.01040996	5257741
Los Angeles (SC)	2023	ConstMin - Off-Highway Tractors	Aggregate	600	Diesel	0.002407952	0.002913621	0.00346745	0.023457342	0.020921713	11.69264795	0.000715254	0.000658034	0.000108032	9.54338E-05	379355.0855	47062.22754	67.53877073	16878949
Los Angeles (SC)	2023	ConstMin - Off-Highway Tractors	Aggregate	750	Diesel	0.000187028	0.000226304	0.00026932	0.001019265	0.001614395	0.496414798	8.22254E-05	7.56473E-05	4.58399E-06	4.05167E-06	16105.63142	1131.465008	1.672786891	719949.5
Los Angeles (SC)	2023	ConstMin - Off-Highway Tractors	Aggregate	9999	Diesel	0.000269986	0.000326683	0.00038878	0.00159083	0.004463103	0.651062239	0.000120142	0.000110531	6.01129E-06	5.31388E-06	21122.99734	572.8600328	1.045491807	938302.9
Los Angeles (SC)	2023	ConstMin - Off-Highway Trucks	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Off-Highway Trucks	Aggregate	50	Diesel	0.000403341	0.000488043	0.000580812	0.003485344	0.002677998	0.371065443	0.000152766	0.000140544	3.41858E-06	3.02859E-06	12038.80965	19217.82188	11.80908192	551634.1
Los Angeles (SC)	2023	ConstMin - Off-Highway Trucks	Aggregate	75	Diesel	4.43649E-05	5.36815E-05	6.38854E-05	0.000920156	0.000382116	0.12436922	5.92189E-06	5.44814E-06	1.14852E-06	1.01508E-06	4035.022375	2821.700422	1.864591881	203451.8
Los Angeles (SC)	2023	ConstMin - Off-Highway Trucks	Aggregate	100	Diesel	0.000117947	0.000142716	0.000169844	0.001666035	0.001246622	0.225027097	7.79802E-05	7.17418E-05	2.07695E-06	1.83664E-06	7300.756332	4237.458146	3.107653136	368617.5
Los Angeles (SC)	2023	ConstMin - Off-Highway Trucks	Aggregate	175	Diesel	0.003349227	0.004052564	0.004822886	0.05563804	0.029073692	8.82302391	0.001418159	0.001304706	8.14728E-05	7.20123E-05	286253.2939	92109.23585	65.05353897	14518526
Los Angeles (SC)	2023	ConstMin - Off-Highway Trucks	Aggregate	300	Diesel	0.005873626	0.007107087	0.008458021	0.044082188	0.050254502	17.92345287	0.002043052	0.001879608	0.000165535	0.000146289	581506.6892	140292.8767	109.1822135	29554625
Los Angeles (SC)	2023	ConstMin - Off-Highway Trucks	Aggregate	600	Diesel	0.022365511	0.027062269	0.032206337	0.176042536	0.192663133	76.85019446	0.006938188	0.006383133	0.000709847	0.000627241	2493319.924	335428.2911	243.2256521	1.26E+08
Los Angeles (SC)	2023	ConstMin - Off-Highway Trucks	Aggregate	750	Diesel	0.010756068	0.013014842	0.015488737	0.085412198	0.107280138	26.07188704	0.004179775	0.003845393	0.000240725	0.000212795	845873.662	64660.67638	52.41574956	42892367
Los Angeles (SC)	2023	ConstMin - Off-Highway Trucks	Aggregate	9999	Diesel	0.013770322	0.016662089	0.019829263	0.104983062	0.287185323	46.17863508	0.005529127	0.005086797	0.000426531	0.000376904	1498214.959	59587.74403	41.64255202	75644331
Los Angeles (SC)	2023	ConstMin - Other Construction Equipment	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Other Construction Equipment	Aggregate	50	Diesel	0.002513913	0.003041835	0.003620035	0.017821614	0.016138298	2.079783936	0.001129312	0.001038967	1.91532E-05	1.69749E-05	67476.29932	73713.4052	153.1949422	2811615
Los Angeles (SC)	2023	ConstMin - Other Construction Equipment	Aggregate	75	Diesel	0.000511149	0.00061849	0.000736054	0.003552233	0.005996704	0.440944185	0.000430778	0.000396316	4.06141E-06	3.59893E-06	14305.94847	9155.001799	25.56685443	676619.1
Los Angeles (SC)	2023	ConstMin - Other Construction Equipment	Aggregate	100	Diesel	0.003613458	0.004372285	0.00520338	0.041199797	0.040644485	6.067163437	0.002754054	0.00253373	5.59855E-05	4.95194E-05	196842.4359	111391.454	244.5345915	9155187
Los Angeles (SC)	2023	ConstMin - Other Construction Equipment	Aggregate	175	Diesel	0.001533374	0.001855382	0.002208058	0.021203244	0.018279994	3.541330375	0.000953887	0.000877576	3.26954E-05	2.89039E-05	114894.5639	35269.16377	84.32938274	5368570
Los Angeles (SC)	2023	ConstMin - Other Construction Equipment	Aggregate	300	Diesel	0.001592675	0.001927137	0.002293452	0.011943172	0.021354983	4.651841902	0.000822698	0.000756882	4.29608E-05	3.79677E-05	150923.8874	31990.92647	77.73148483	7012237
Los Angeles (SC)	2023	ConstMin - Other Construction Equipment	Aggregate	600	Diesel	0.004917206	0.005949819	0.007080776	0.045265154	0.060024745	18.1532987	0.002231084	0.002052597	0.000167689	0.000148165	588963.7841	71660.21849	159.3804715	27417100
Los Angeles (SC)	2023	ConstMin - Other Construction Equipment	Aggregate	750	Diesel	0.000838124	0.00101413	0.001206898	0.006846336	0.011373493	3.322482141	0.000354763	0.000326382	3.06929E-05	2.71177E-05	107794.274	8145.562014	15.25763893	5022135
Los Angeles (SC)	2023	ConstMin - Other Construction Equipment	Aggregate	9999	Diesel	0.000237957	0.000287928	0.000342658	0.002162889	0.006282925	1.14728517	0.000114882	0.000105691	1.06001E-05	9.36399E-06	37222.40385	1887.130644	3.917501888	1733346
Los Angeles (SC)	2023	ConstMin - Pavers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Pavers	Aggregate	50	Diesel	0.000359172	0.000434598	0.000517208	0.002160938	0.001849386	0.254359857	0.000128844	0.000118536	2.34091E-06	2.07605E-06	8252.425423	8906.457784	24.81697678	345485.6
Los Angeles (SC)	2023	ConstMin - Pavers	Aggregate	75	Diesel	0.000552889	0.000668995	0.00079616	0.002642428	0.004890886	0.333497127	0.000486926	0.000447972	3.06676E-06	2.72196E-06	10819.94701	7086.740684	20.47400585	507473
Los Angeles (SC)	2023	ConstMin - Pavers	Aggregate	100	Diesel	0.000775096	0.000937866	0.001116138	0.013692978	0.01093067	2.120101348	0.00055413	0.0005098	1.95781E-05	1.7304E-05	68784.35336	39705.19957	99.47471527	3214194
Los Angeles (SC)	2023	ConstMin - Pavers	Aggregate	175	Diesel	0.00106737	0.001291518	0.001537013	0.019055268	0.012614339	3.358064053	0.000601067	0.000552981	3.10149E-05	2.74081E-05	108948.69	32056.89156	82.10283152	5060753
Los Angeles (SC)	2023	ConstMin - Pavers	Aggregate	300	Diesel	0.000573247	0.000693629	0.000825476	0.004993753	0.008582239	2.606354266	0.000266687	0.000245352	2.40798E-05	2.12727E-05	84560.29379	17874.32953	39.29354657	3934081
Los Angeles (SC)	2023	ConstMin - Pavers	Aggregate	600	Diesel	8.74063E-05	0.000105762	0.000125865	0.000915906	0.001162526	0.4943754	3.39831E-05	3.12645E-05	4.56812E-06	4.03503E-06	16039.46539	2013.039639	4.549779077	746745.2
Los Angeles (SC)	2023	ConstMin - Pavers	Aggregate	750	Diesel	8.36604E-06	1.01229E-05	1.20471E-05	0.000175003	4.83918E-05	0.098384386	1.65039E-06	1.51836E-06	9.09361E-07	8.03E-07	3191.97304	198.1018353	0.41361628	148576.4
Los Angeles (SC)	2023	ConstMin - Paving Equipment	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Paving Equipment	Aggregate	50	Diesel	0.000243234	0.000294313	0.000350257	0.002306369	0.00205261	0.31698965	9.41172E-05	8.65878E-05	2.92343E-06	2.58723E-06	10284.38009	14562.95535	30.5583829	506128.8
Los Angeles (SC)	2023	ConstMin - Paving Equipment	Aggregate	75	Diesel	3.89119E-05	4.70833E-05	5.60331E-05	0.000388768	0.000495781	0.054418887	3.54671E-05	3.26298E-05	5.01962E-07	4.4416E-07	1765.560858	1366.350677	3.303608962	95233.83
Los Angeles (SC)	2023	ConstMin - Paving Equipment	Aggregate	100	Diesel	0.000509478	0.000616468	0.000733648	0.008604076	0.006440855	1.317993812	0.00032132	0.000295615	1.21702E-05	1.07573E-05	42760.85773	26093.07505	55.95487679	2324439
Los Angeles (SC)	2023	ConstMin - Paving Equipment	Aggregate	175	Diesel	0.000509793	0.00061685	0.000734102	0.008374327	0.005691933	1.420986755	0.000296737	0.000272998	1.31224E-05	1.15979E-05	46102.35032	17292.078	37.16560082	2515905
Los Angeles (SC)	2023	ConstMin - Paving Equipment	Aggregate	300	Diesel	0.000275776	0.000333688	0.000397117	0.002053921	0.00361795	0.958036593	0.000139034	0.000127911	8.84925E-06	7.81937E-06	31082.44219	7330.625264	15.48566701	1691975
Los Angeles (SC)	2023	ConstMin - Paving Equipment	Aggregate	600	Diesel	0.00022055	0.000266865	0.000317592	0.001993493	0.002649386	1.033615686	8.76894E-05	8.06742E-05	9.54967E-06	8.43623E-06	33534.52262	4591.005076	9.704351326	1828372
Los Angeles (SC)	2023	ConstMin - Paving Equipment	Aggregate	750	Diesel	3.80449E-05	4.60344E-05	5.47847E-05	0.000364248	0.000410176	0.195732211	1.12264E-05	1.03283E-05	1.8085E-06	1.59754E-06	6350.316027	542.0549567	1.032377801	345373.1
Los Angeles (SC)	2023	ConstMin - Paving Equipment	Aggregate	9999	Diesel	1.54766E-05	1.87267E-05	2.22863E-05	0.000175003	0.000414228	0.092946699	6.89484E-06	6.34326E-06	8.58874E-07	7.58618E-07	3015.553298	194.6817098	0.41295112	164119.5
Los Angeles (SC)	2023	ConstMin - Rollers	Aggregate	25	Diesel	4.62058E-06	5.59091E-06	6.65364E-06	1.53774E-05	1.06607E-05	0.000816751	1.45745E-06	1.34086E-06	7.41265E-09	6.66621E-09	26.49857074	49.16097746	0.212727763	1229.024
Los Angeles (SC)	2023	ConstMin - Rollers	Aggregate	50	Diesel	0.004841562	0.00585829	0.006971849	0.037729066	0.034793459	5.220202803	0.001876077	0.001725991	4.81181E-05	4.26066E-05	169363.7309	219701.6373	627.3341736	7850554
Los Angeles (SC)	2023	ConstMin - Rollers	Aggregate	75	Diesel	0.000158849	0.000192207	0.000228742	0.00063313	0.001551682	0.054605964	0.00010991	0.000101117	5.00094E-07	4.45687E-07	1771.630365	1288.017609	5.530921843	91306.68
Los Angeles (SC)	2023	ConstMin - Rollers	Aggregate	100	Diesel	0.003487781	0.004220215	0.005022405	0.052535765	0.044666906	8.104439298	0.002432987	0.002238348	7.48249E-05	6.61473E-05	262939.6076	155220.8702	462.4701572	13545395
Los Angeles (SC)	2023	ConstMin - Rollers	Aggregate	175	Diesel	0.001979694	0.00239543	0.00285076	0.046492525	0.023702608	8.435473139	0.001081147	0.000994656	7.79307E-05	6.88492E-05	273679.636	98170.78492	270.5897148	14116184
Los Angeles (SC)	2023	ConstMin - Rollers	Aggregate	300	Diesel	0.000496183	0.000600381	0.000714503	0.004161158	0.006856863	1.426248605	0.000261269	0.000240368	1.31715E-05	1.16408E-05	46273.06527	10972.48436	35.10008092	2384377
Los Angeles (SC)	2023	ConstMin - Rollers	Aggregate	600	Diesel	0.000175779	0.000212693	0.000253122	0.002096975	0.002265446	0.788543866	7.70525E-05	7.08883E-05	7.28521E-06	6.43599E-06	25583.43731	3726.156287	12.1254825	1312250
Los Angeles (SC)	2023	ConstMin - Rough Terrain Forklifts	Aggregate	25	Diesel	1.52958E-06	1.85079E-06	2.20259E-06	1.88474E-05	2.32659E-05	0.002730162	1.31164E-06	1.2067E-06	2.51958E-08	2.22832E-08	88.57709615	153.1788012	0.490985382	3829.47
Los Angeles (SC)	2023	ConstMin - Rough Terrain Forklifts	Aggregate	50	Diesel	0.000256603	0.00031049	0.000369509	0.001847531	0.001720137	0.26286014	9.08008E-05	8.35367E-05	2.42257E-06	2.14543E-06	8528.207742	7724.182884	27.98616677	368839.4
Los Angeles (SC)	2023	ConstMin - Rough Terrain Forklifts	Aggregate	75	Diesel	2.01699E-05	2.44055E-05	2.90446E-05	8.16201E-05	0.000200635	0.007249347	1.37487E-05	1.26488E-05	6.64187E-08	5.91682E-08	235.1970949	170.4823325	0.736478073	11309.84
Los Angeles (SC)	2023	ConstMin - Rough Terrain Forklifts	Aggregate	100	Diesel	0.004077687	0.004934001	0.005871869	0.127021078	0.072485396	20.86602153	0.001775849	0.001633782	0.000192794	0.000170306	676975.0887	337658.2722	1183.029278	32524531
Los Angeles (SC)	2023	ConstMin - Rough Terrain Forklifts	Aggregate	175	Diesel	0.001602444	0.001938957	0.002307519	0.025317405	0.016677695	4.481394054	0.001113135	0.001024084	4.13846E-05	3.65765E-05	145393.8947	55611.84745	199.5855578	6994199
Los Angeles (SC)	2023	ConstMin - Rough Terrain Forklifts	Aggregate	300	Diesel	5.92779E-05	7.17262E-05	8.53601E-05	0.000626601	0.000907264	0.33553465	2.12446E-05	1.95451E-05	3.10041E-06	2.73859E-06	10886.05221	2487.169869	9.81970764	523207
Los Angeles (SC)	2023	ConstMin - Rough Terrain Forklifts	Aggregate	600	Diesel	1.40738E-05	1.70293E-05	2.02662E-05	0.000224624	0.000140513	0.124684478	2.14142E-06	1.97011E-06	1.15235E-06	1.01766E-06	4045.250566	508.8940174	1.963941528	196032
Los Angeles (SC)	2023	ConstMin - Rough Terrain Forklifts	Aggregate	750	Diesel	3.78101E-06	4.57503E-06	5.44466E-06	3.97759E-05	5.45689E-05	0.021454908	3.88215E-07	3.57158E-07	1.98248E-07	1.75112E-07	696.0808542	53.61258043	0.245492691	33507.86
Los Angeles (SC)	2023	ConstMin - Rubber Tired Dozers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Rubber Tired Dozers	Aggregate	50	Diesel	0.000172923	0.000209237	0.00024901	0.001904221	0.001438445	0.230324057	5.61598E-05	5.1667E-05	2.12427E-06	1.87987E-06	7472.610378	7972.52553	8.298005046	328715.4
Los Angeles (SC)	2023	ConstMin - Rubber Tired Dozers	Aggregate	75	Diesel	0.000329728	0.000398971	0.000474809	0.002094188	0.00320132	0.24746624	0.000237926	0.000218892	2.27806E-06	2.01979E-06	8028.769613	5642.109382	7.488443578	391561.6
Los Angeles (SC)	2023	ConstMin - Rubber Tired Dozers	Aggregate	100	Diesel	0.000729875	0.000883149	0.001051021	0.005684621	0.007448836	0.724356025	0.000557527	0.000512924	6.67513E-06	5.9121E-06	23500.93351	13504.25293	15.38166789	1140979
Los Angeles (SC)	2023	ConstMin - Rubber Tired Dozers	Aggregate	175	Diesel	0.000997636	0.00120714	0.001436596	0.007299896	0.010924476	1.005419727	0.000694624	0.000639054	9.26567E-06	8.2061E-06	32619.73576	11263.17135	14.16732569	1594570
Los Angeles (SC)	2023	ConstMin - Rubber Tired Dozers	Aggregate	300	Diesel	0.000800791	0.000968958	0.00115314	0.00562036	0.010558446	1.132208848	0.000471928	0.000434174	1.04438E-05	9.24094E-06	36733.26917	8217.143222	11.53625092	1793399
Los Angeles (SC)	2023	ConstMin - Rubber Tired Dozers	Aggregate	600	Diesel	0.008040424	0.009728913	0.011578211	0.078364525	0.097620115	11.64268826	0.004400397	0.004048365	0.000107401	9.50261E-05	377734.1983	49915.339	68.0031633	18324377
Los Angeles (SC)	2023	ConstMin - Rubber Tired Dozers	Aggregate	750	Diesel	0.000148567	0.000179766	0.000213936	0.000882428	0.002344454	0.431764025	6.62781E-05	6.09759E-05	3.98742E-06	3.524E-06	14008.10828	1028.984551	1.011951835	685135.3
Los Angeles (SC)	2023	ConstMin - Rubber Tired Loaders	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Rubber Tired Loaders	Aggregate	50	Diesel	0.001039259	0.001257504	0.001496533	0.007270369	0.005509821	0.717803267	0.000363775	0.000334673	6.60527E-06	5.85861E-06	23288.33647	26911.31813	31.00995646	1117545
Los Angeles (SC)	2023	ConstMin - Rubber Tired Loaders	Aggregate	75	Diesel	0.0001155	0.000139755	0.00016632	0.000456352	0.000854078	0.046640925	8.08468E-05	7.43791E-05	4.27753E-07	3.80677E-07	1513.21346	1162.946078	2.109520847	79751.41
Los Angeles (SC)	2023	ConstMin - Rubber Tired Loaders	Aggregate	100	Diesel	0.011288628	0.01365924	0.016255624	0.128611582	0.11663244	17.57913599	0.00789517	0.007263557	0.000162189	0.000143479	570335.7072	357894.8883	383.9327942	30762650
Los Angeles (SC)	2023	ConstMin - Rubber Tired Loaders	Aggregate	175	Diesel	0.017848056	0.021596147	0.0257012	0.262362145	0.176092681	41.91094726	0.009457182	0.008700608	0.000386952	0.000342072	1359754.527	486018.3469	510.9259493	72877624
Los Angeles (SC)	2023	ConstMin - Rubber Tired Loaders	Aggregate	300	Diesel	0.019776837	0.023929973	0.028478645	0.137818331	0.233038586	60.56156516	0.007809243	0.007184504	0.000559328	0.000494295	1964853.285	505088.1275	468.5245802	1.05E+08
Los Angeles (SC)	2023	ConstMin - Rubber Tired Loaders	Aggregate	600	Diesel	0.02778382	0.033618422	0.0400087	0.203090817	0.293915381	78.61930497	0.011049135	0.010165204	0.000726041	0.00064168	2550716.766	414652.3119	420.638457	1.37E+08
Los Angeles (SC)	2023	ConstMin - Rubber Tired Loaders	Aggregate	750	Diesel	0.002182543	0.002640876	0.003142861	0.021302518	0.017970319	7.463083235	0.000645885	0.000594214	6.89344E-05	6.09127E-05	242131.5164	20156.67575	20.04044805	13021847
Los Angeles (SC)	2023	ConstMin - Rubber Tired Loaders	Aggregate	9999	Diesel	0.001746149	0.002112841	0.002514455	0.011839046	0.038152678	5.427098293	0.000789769	0.000726588	5.01238E-05	4.42952E-05	176076.2272	9813.256372	8.227131305	9396232
Los Angeles (SC)	2023	ConstMin - Scrapers	Aggregate	25	Diesel	4.01692E-07	4.86047E-07	5.78436E-07	1.02639E-05	9.03092E-06	0.001854836	3.31051E-08	3.04567E-08	1.71368E-08	1.51389E-08	60.17811878	86.76333946	0.208577481	2169.083
Los Angeles (SC)	2023	ConstMin - Scrapers	Aggregate	50	Diesel	7.16311E-05	8.66737E-05	0.000103149	0.000244068	0.000172232	0.014763074	2.4109E-05	2.21803E-05	1.34343E-07	1.20494E-07	478.9716715	453.3384487	1.251464887	17557.77
Los Angeles (SC)	2023	ConstMin - Scrapers	Aggregate	75	Diesel	0.000177106	0.000214298	0.000255033	0.001026676	0.001654568	0.128117916	0.000140692	0.000129436	1.1792E-06	1.04568E-06	4156.644702	2465.042878	5.42301451	166568.9
Los Angeles (SC)	2023	ConstMin - Scrapers	Aggregate	100	Diesel	0.000533334	0.000645334	0.000768001	0.004676624	0.006597509	0.617927789	0.000487931	0.000448897	5.69705E-06	5.04344E-06	20047.9866	8812.504187	15.22615612	798079.5
Los Angeles (SC)	2023	ConstMin - Scrapers	Aggregate	175	Diesel	0.00419784	0.005079386	0.00604489	0.049272788	0.048678764	7.77612192	0.002557395	0.002352803	7.17682E-05	6.34677E-05	252287.7118	60126.99424	132.0295456	10044863
Los Angeles (SC)	2023	ConstMin - Scrapers	Aggregate	300	Diesel	0.004888584	0.005915186	0.00703956	0.03104564	0.061153081	9.456944268	0.002732729	0.002514111	8.72875E-05	7.71863E-05	306820.1418	55343.68314	135.1582078	12310254
Los Angeles (SC)	2023	ConstMin - Scrapers	Aggregate	600	Diesel	0.0427538	0.051732098	0.061565472	0.385055276	0.541031611	115.6851762	0.020723297	0.019065433	0.001068284	0.000944207	3753278.137	355607.5001	732.1069588	1.5E+08
Los Angeles (SC)	2023	ConstMin - Scrapers	Aggregate	750	Diesel	0.00192135	0.002324833	0.002766743	0.021614486	0.031854848	1.779716433	0.001293857	0.001190348	1.63967E-05	1.45258E-05	57740.93966	3702.384502	10.01171909	2304157
Los Angeles (SC)	2023	ConstMin - Scrapers	Aggregate	9999	Diesel	0.001909792	0.002310848	0.0027501	0.022881403	0.032383763	2.673546265	0.001160089	0.001067282	2.4661E-05	2.18211E-05	86740.26417	2176.313765	5.42301451	3475547
Los Angeles (SC)	2023	ConstMin - Skid Steer Loaders	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Skid Steer Loaders	Aggregate	50	Diesel	0.001954783	0.002365288	0.002814888	0.024456181	0.022561757	3.94902446	0.000624403	0.000574451	3.6452E-05	3.22314E-05	128121.7495	138327.4541	434.359881	6026034
Los Angeles (SC)	2023	ConstMin - Skid Steer Loaders	Aggregate	75	Diesel	0.005014718	0.006067809	0.007221194	0.129587657	0.08073109	20.98247417	0.002724511	0.00250655	0.000193843	0.000171256	680753.2663	505485.8653	1401.063652	35720657
Los Angeles (SC)	2023	ConstMin - Skid Steer Loaders	Aggregate	100	Diesel	1.99691E-05	2.41626E-05	2.87554E-05	8.17835E-05	0.000201507	0.007428065	1.34472E-05	1.23714E-05	6.80771E-08	6.06269E-08	240.9953877	149.3005466	0.64604841	12640.78
Los Angeles (SC)	2023	ConstMin - Skid Steer Loaders	Aggregate	175	Diesel	2.84129E-05	3.43796E-05	4.09146E-05	0.000770346	0.000334311	0.141855856	1.40478E-05	1.2924E-05	1.31068E-06	1.15781E-06	4602.35703	1588.80665	5.81443569	242200.6
Los Angeles (SC)	2023	ConstMin - Skid Steer Loaders	Aggregate	300	Diesel	2.09701E-05	2.53738E-05	3.01969E-05	0.00024515	0.000292686	0.131699563	8.96814E-06	8.25069E-06	1.217E-06	1.07491E-06	4272.847274	1093.128835	3.66094099	224266.1
Los Angeles (SC)	2023	ConstMin - Skid Steer Loaders	Aggregate	600	Diesel	9.68719E-06	1.17215E-05	1.39496E-05	7.16747E-05	0.000149896	0.038060497	6.51858E-06	5.99709E-06	3.51598E-07	3.10645E-07	1234.830914	136.8588344	0.43069894	64706.86
Los Angeles (SC)	2023	ConstMin - Skid Steer Loaders	Aggregate	9999	Diesel	5.68943E-06	6.88421E-06	8.19277E-06	9.2322E-05	0.000222289	0.051520132	3.01506E-06	2.77386E-06	4.76158E-07	4.205E-07	1671.513927	87.58965401	0.43069894	87589.65
Los Angeles (SC)	2023	ConstMin - Surfacing Equipment	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Surfacing Equipment	Aggregate	50	Diesel	2.20402E-05	2.66687E-05	3.17379E-05	0.000233933	0.000239579	0.036597581	9.49207E-06	8.7327E-06	3.37702E-07	2.98705E-07	1187.368201	1879.319613	7.619292933	67998.4
Los Angeles (SC)	2023	ConstMin - Surfacing Equipment	Aggregate	75	Diesel	2.21456E-05	2.67961E-05	3.18896E-05	0.000168392	0.000297588	0.023259779	1.88018E-05	1.72977E-05	2.14384E-07	1.89843E-07	754.6379056	722.8326006	2.930497282	48154.29
Los Angeles (SC)	2023	ConstMin - Surfacing Equipment	Aggregate	100	Diesel	5.16457E-05	6.24913E-05	7.43698E-05	0.00135755	0.000872185	0.22145686	3.11675E-05	2.86741E-05	2.04593E-06	1.8075E-06	7184.923946	5141.321824	18.16908315	458710
Los Angeles (SC)	2023	ConstMin - Surfacing Equipment	Aggregate	175	Diesel	9.91128E-05	0.000119927	0.000142722	0.001131148	0.001175771	0.19033068	6.82892E-05	6.28261E-05	1.75673E-06	1.55345E-06	6175.06931	2887.041265	11.52662264	395707.1
Los Angeles (SC)	2023	ConstMin - Surfacing Equipment	Aggregate	300	Diesel	0.000118751	0.000143688	0.000171001	0.000942826	0.001924443	0.369814234	6.51342E-05	5.99235E-05	3.41555E-06	3.01837E-06	11998.21553	3395.416973	13.67565398	768239.6
Los Angeles (SC)	2023	ConstMin - Surfacing Equipment	Aggregate	600	Diesel	0.000232056	0.000280787	0.00033416	0.00263283	0.002997618	1.303031751	0.000114394	0.000105242	1.20402E-05	1.06352E-05	42275.43014	6636.199238	23.24861177	2711117
Los Angeles (SC)	2023	ConstMin - Surfacing Equipment	Aggregate	750	Diesel	9.26058E-05	0.000112053	0.000133352	0.001060233	0.001225786	0.557503814	4.40341E-05	4.05113E-05	5.15162E-06	4.55027E-06	18087.59726	1805.501293	5.860994564	1161471
Los Angeles (SC)	2023	ConstMin - Surfacing Equipment	Aggregate	9999	Diesel	4.17297E-05	5.04929E-05	6.00908E-05	0.000430181	0.001155439	0.201449562	2.15827E-05	1.98561E-05	1.86125E-06	1.6442E-06	6535.809187	478.577487	1.758298369	419058.2
Los Angeles (SC)	2023	ConstMin - Sweepers/Scrubbers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Sweepers/Scrubbers	Aggregate	50	Diesel	0.00257041	0.003110196	0.00370139	0.020365147	0.016909041	2.407352628	0.001017863	0.000936434	2.21801E-05	1.96485E-05	78103.90478	83669.90285	117.0039304	2979719
Los Angeles (SC)	2023	ConstMin - Sweepers/Scrubbers	Aggregate	75	Diesel	0.000621612	0.00075215	0.000895121	0.004036528	0.005802223	0.50378634	0.000503611	0.000463322	4.63911E-06	4.11184E-06	16344.79299	9584.863264	17.39527462	695972.4
Los Angeles (SC)	2023	ConstMin - Sweepers/Scrubbers	Aggregate	100	Diesel	0.001411217	0.001707573	0.002032153	0.021886503	0.017246977	3.216856981	0.000966487	0.000889168	2.96991E-05	2.62556E-05	104367.382	56184.48908	77.86456256	4427088
Los Angeles (SC)	2023	ConstMin - Sweepers/Scrubbers	Aggregate	175	Diesel	0.000423498	0.000512433	0.000609837	0.005652065	0.004574521	0.928077065	0.000220734	0.000203075	8.56783E-06	7.57484E-06	30110.43828	7992.171785	10.97558994	1277407
Los Angeles (SC)	2023	ConstMin - Sweepers/Scrubbers	Aggregate	300	Diesel	0.000158885	0.000192251	0.000228795	0.001182274	0.002098582	0.55735251	6.7191E-05	6.18158E-05	5.14823E-06	4.54904E-06	18082.68838	3658.213241	4.970078462	767141.3
Los Angeles (SC)	2023	ConstMin - Sweepers/Scrubbers	Aggregate	600	Diesel	7.91286E-06	9.57456E-06	1.13945E-05	0.000137155	3.76608E-05	0.075269809	1.32001E-06	1.21441E-06	6.95669E-07	6.14342E-07	2442.046068	313.9439935	0.414173205	103601.5
Los Angeles (SC)	2023	ConstMin - Sweepers/Scrubbers	Aggregate	9999	Diesel	7.60575E-06	9.20296E-06	1.09523E-05	0.00017069	0.000413187	0.0967103	3.22334E-06	2.96547E-06	8.93907E-07	7.89336E-07	3137.659191	156.9719967	0.207086603	133112.3
Los Angeles (SC)	2023	ConstMin - Tractors/Loaders/Backhoes	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Tractors/Loaders/Backhoes	Aggregate	50	Diesel	0.006949779	0.008409233	0.010007682	0.062722617	0.052257828	7.78674397	0.002500224	0.002300206	7.17838E-05	6.35544E-05	252632.3325	317892.5087	607.9000379	12020833
Los Angeles (SC)	2023	ConstMin - Tractors/Loaders/Backhoes	Aggregate	75	Diesel	0.002898178	0.003506795	0.004173376	0.011708487	0.027489311	1.171561449	0.002236177	0.002057283	1.07447E-05	9.56213E-06	38010.02098	27712.6541	119.6737008	1991374
Los Angeles (SC)	2023	ConstMin - Tractors/Loaders/Backhoes	Aggregate	100	Diesel	0.043757	0.05294597	0.06301008	0.820503748	0.545271469	124.64292	0.026039622	0.023956453	0.001151073	0.001017319	4043902.269	2539302.443	4007.904013	2.11E+08
Los Angeles (SC)	2023	ConstMin - Tractors/Loaders/Backhoes	Aggregate	175	Diesel	0.006320905	0.007648295	0.009102104	0.12780127	0.063157253	21.77591628	0.00317753	0.002923328	0.00020114	0.000177732	706495.6219	259268.6076	461.7498546	37203223
Los Angeles (SC)	2023	ConstMin - Tractors/Loaders/Backhoes	Aggregate	300	Diesel	0.003852127	0.004661073	0.005547062	0.031761996	0.045871131	13.66539847	0.001668344	0.001534877	0.000126228	0.000111535	443358.8038	111900.0897	198.4677127	23312134
Los Angeles (SC)	2023	ConstMin - Tractors/Loaders/Backhoes	Aggregate	600	Diesel	0.004311084	0.005216411	0.00620796	0.041717816	0.042184759	17.95845263	0.001614335	0.001485188	0.000165905	0.000146574	582642.218	90513.88969	162.8833203	30710277
Los Angeles (SC)	2023	ConstMin - Tractors/Loaders/Backhoes	Aggregate	750	Diesel	0.00012268	0.000148443	0.00017666	0.00151068	0.00132254	0.291044864	5.49147E-05	5.05215E-05	2.68717E-06	2.37547E-06	9442.630082	758.7143665	1.694494879	503302.1
Los Angeles (SC)	2023	ConstMin - Tractors/Loaders/Backhoes	Aggregate	9999	Diesel	0.001590568	0.001924587	0.002290418	0.011877054	0.036374495	6.105779895	0.000682883	0.000628252	5.64032E-05	4.98346E-05	198095.3044	5613.507326	8.896098115	10389441
Los Angeles (SC)	2023	ConstMin - Trenchers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	ConstMin - Trenchers	Aggregate	50	Diesel	0.002486678	0.00300888	0.003580816	0.020171803	0.018563781	2.764782964	0.001031435	0.000948921	2.54872E-05	2.25658E-05	89700.33839	77681.23257	199.3361669	3097967
Los Angeles (SC)	2023	ConstMin - Trenchers	Aggregate	75	Diesel	0.000231268	0.000279834	0.000333026	0.001385574	0.002321042	0.165498411	0.00016075	0.00014789	1.52318E-06	1.35078E-06	5369.413689	2945.881479	10.87288183	206768.7
Los Angeles (SC)	2023	ConstMin - Trenchers	Aggregate	100	Diesel	0.001335126	0.001615503	0.001922582	0.012607503	0.015306306	1.803904342	0.001067901	0.000982469	1.66379E-05	1.47232E-05	58525.68972	26874.91946	80.64054023	2246861
Los Angeles (SC)	2023	ConstMin - Trenchers	Aggregate	175	Diesel	0.000235977	0.000285532	0.000339807	0.002785879	0.002951798	0.445531262	0.000145637	0.000133986	4.11208E-06	3.63637E-06	14454.77114	4030.792962	13.13806554	558371.9
Los Angeles (SC)	2023	ConstMin - Trenchers	Aggregate	300	Diesel	0.000450103	0.000544624	0.000648148	0.002757551	0.006152473	0.919800017	0.000257319	0.000236734	8.4905E-06	7.50728E-06	29841.89857	5086.389586	16.30932274	1144033
Los Angeles (SC)	2023	ConstMin - Trenchers	Aggregate	600	Diesel	0.000400188	0.000484228	0.000576271	0.004439656	0.004781528	1.398041153	0.000197402	0.000181609	1.29136E-05	1.14106E-05	45357.90553	4557.413445	12.23199206	1737429
Los Angeles (SC)	2023	ConstMin - Trenchers	Aggregate	750	Diesel	3.86814E-05	4.68045E-05	5.57012E-05	0.000800366	0.000221236	0.449387907	7.55621E-06	6.95171E-06	4.15365E-06	3.66784E-06	14579.89572	866.0970072	1.812146972	560612.5
Los Angeles (SC)	2023	ConstMin - Trenchers	Aggregate	9999	Diesel	6.62414E-05	8.01521E-05	9.53876E-05	0.000968084	0.000914722	0.036074359	4.26343E-05	3.92236E-05	3.31538E-07	2.94434E-07	1170.392857	52.34796054	0.226518371	45019.25
Los Angeles (SC)	2023	Industrial - Aerial Lifts	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	Industrial - Aerial Lifts	Aggregate	50	Diesel	0.002053661	0.00248493	0.002957272	0.047722988	0.044287593	8.978049108	0.000353165	0.000324912	8.29449E-05	7.32776E-05	291282.9157	356269.9837	1163.829162	16434554
Los Angeles (SC)	2023	Industrial - Aerial Lifts	Aggregate	75	Diesel	0.001149641	0.001391065	0.001655483	0.040284322	0.021635552	6.747376315	0.000480873	0.000442403	6.23484E-05	5.50712E-05	218911.1936	196476.9206	645.3512345	13733440
Los Angeles (SC)	2023	Industrial - Aerial Lifts	Aggregate	100	Diesel	0.001314049	0.00159	0.001892231	0.053761435	0.024288251	8.918257455	0.000312414	0.000287421	8.24143E-05	7.27896E-05	289343.0414	234159.695	764.5352497	18147514
Los Angeles (SC)	2023	Industrial - Aerial Lifts	Aggregate	175	Diesel	0.000127535	0.000154317	0.00018365	0.005168187	0.001036499	0.957420547	4.3849E-05	4.0341E-05	8.848E-06	7.81434E-06	31062.45523	14940.59778	48.88192329	1949200
Los Angeles (SC)	2023	Industrial - Aerial Lifts	Aggregate	300	Diesel	6.96083E-06	8.42261E-06	1.00236E-05	0.000104296	7.39476E-05	0.05721333	9.93733E-07	9.14234E-07	5.28757E-07	4.66968E-07	1856.223497	506.4394285	1.647705279	116481.1
Los Angeles (SC)	2023	Industrial - Aerial Lifts	Aggregate	600	Diesel	3.97633E-06	4.81136E-06	5.72592E-06	7.33972E-05	2.02044E-05	0.040629756	7.01337E-07	6.4523E-07	3.75523E-07	3.31615E-07	1318.1877	168.8131428	0.549235093	82718.44
Los Angeles (SC)	2023	Industrial - Forklifts	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	Industrial - Forklifts	Aggregate	50	Diesel	0.006509148	0.007876069	0.009373173	0.053107397	0.042685484	6.042587687	0.002382836	0.002192209	5.56714E-05	4.93188E-05	196045.1028	399609.7423	539.5251546	16949318
Los Angeles (SC)	2023	Industrial - Forklifts	Aggregate	75	Diesel	0.001348325	0.001631473	0.001941588	0.005410457	0.012807952	0.522026582	0.001021267	0.000939566	4.78594E-06	4.26071E-06	16936.57755	22442.98084	49.04774133	1646312
Los Angeles (SC)	2023	Industrial - Forklifts	Aggregate	100	Diesel	0.035855678	0.04338537	0.051632176	0.49768368	0.408600482	72.25795722	0.025013275	0.023012213	0.000666985	0.00058976	2344329.844	2739470.822	3551.056472	2.26E+08
Los Angeles (SC)	2023	Industrial - Forklifts	Aggregate	175	Diesel	0.00881694	0.010668497	0.012696393	0.138624383	0.092446919	23.00389273	0.004848257	0.004460396	0.000212418	0.000187755	746335.9655	508419.0426	670.6163906	71833414
Los Angeles (SC)	2023	Industrial - Forklifts	Aggregate	300	Diesel	0.001559737	0.001887281	0.002246021	0.01160811	0.016653223	5.010447789	0.000633212	0.000582555	4.62773E-05	4.08946E-05	162558.4605	74423.52119	98.09548266	15625540
Los Angeles (SC)	2023	Industrial - Forklifts	Aggregate	600	Diesel	0.000472	0.00057112	0.00067968	0.002980404	0.004714765	1.265821892	0.000181528	0.000167006	1.1689E-05	1.03315E-05	41068.19725	11077.22884	15.16021096	3926354
Los Angeles (SC)	2023	Industrial - Forklifts	Aggregate	9999	Diesel	1.56509E-05	1.89376E-05	2.25373E-05	0.000193638	0.000454333	0.100200466	4.12559E-06	3.79554E-06	9.25933E-07	8.17823E-07	3250.893754	355.5017627	0.445888558	312841.6
Los Angeles (SC)	2023	Industrial - Other General Industrial Equipment	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2023	Industrial - Other General Industrial Equipment	Aggregate	50	Diesel	0.010975612	0.013280491	0.015804881	0.107712491	0.08809203	12.98954688	0.004273605	0.003931717	0.000119766	0.000106019	421431.5429	609164.9987	718.8325939	21400446
Los Angeles (SC)	2023	Industrial - Other General Industrial Equipment	Aggregate	75	Diesel	0.003470081	0.004198798	0.004996917	0.059513996	0.04212416	8.715371345	0.002161387	0.001988476	8.04738E-05	7.11337E-05	282760.625	223398.3468	261.4295171	15994858
Los Angeles (SC)	2023	Industrial - Other General Industrial Equipment	Aggregate	100	Diesel	0.001498213	0.001812837	0.002157426	0.012930939	0.015010447	1.75259086	0.001114762	0.001025581	1.61586E-05	1.43044E-05	56860.88031	40577.95192	52.83794162	3204167
Los Angeles (SC)	2023	Industrial - Other General Industrial Equipment	Aggregate	175	Diesel	0.001665919	0.002015762	0.002398924	0.029709896	0.016163971	4.892424591	0.000838076	0.00077103	4.51829E-05	3.99313E-05	158729.3278	60424.97175	71.76496549	8972885
Los Angeles (SC)	2023	Industrial - Other General Industrial Equipment	Aggregate	300	Diesel	0.001509457	0.001826443	0.002173618	0.010739878	0.017933359	4.833318038	0.000578716	0.000532419	4.46411E-05	3.94489E-05	156811.6808	41411.74546	50.86637664	8855277
Los Angeles (SC)	2023	Industrial - Other General Industrial Equipment	Aggregate	600	Diesel	0.00368374	0.004457325	0.005304586	0.031885616	0.030760962	15.27505988	0.001068046	0.000982603	0.000141115	0.000124673	495582.4954	74627.71055	86.35454639	28024518
Los Angeles (SC)	2023	Industrial - Other General Industrial Equipment	Aggregate	750	Diesel	0.000405643	0.000490828	0.000584126	0.006141878	0.002365406	2.91507385	0.000102482	9.42833E-05	2.69391E-05	2.37924E-05	94576.36069	8467.332793	9.85782493	5348167
Los Angeles (SC)	2023	Industrial - Other General Industrial Equipment	Aggregate	9999	Diesel	0.000201477	0.000243787	0.000290127	0.001716071	0.005475024	0.885527294	9.09211E-05	8.36474E-05	8.18109E-06	7.22755E-06	28729.95783	1396.034636	1.577251989	1624635
Los Angeles (SC)	2023	Industrial - Other Material Handling Equipment	Aggregate	25	Diesel	1.58129E-05	1.91336E-05	2.27706E-05	0.000133164	9.1962E-05	0.014732515	3.60832E-06	3.31965E-06	1.35735E-07	1.20245E-07	477.9802163	841.2198682	1.349851268	21030.5
Los Angeles (SC)	2023	Industrial - Other Material Handling Equipment	Aggregate	50	Diesel	0.000850889	0.001029575	0.00122528	0.005839487	0.004767629	0.592984536	0.000349243	0.000321303	5.45691E-06	4.83986E-06	19238.73022	23478.24895	30.59662874	841263.5
Los Angeles (SC)	2023	Industrial - Other Material Handling Equipment	Aggregate	75	Diesel	0.00010604	0.000128308	0.000152697	0.001008049	0.001119643	0.12933283	8.8899E-05	8.17871E-05	1.19256E-06	1.0556E-06	4196.061244	2892.2782	4.499504226	206107.8
Los Angeles (SC)	2023	Industrial - Other Material Handling Equipment	Aggregate	100	Diesel	0.001862587	0.00225373	0.002682125	0.041422981	0.024579648	6.348517232	0.000961461	0.000884544	5.86393E-05	5.18157E-05	205970.65	108402.4621	138.1347797	10059193
Los Angeles (SC)	2023	Industrial - Other Material Handling Equipment	Aggregate	175	Diesel	0.001983466	0.002399994	0.002856191	0.030650968	0.019729009	4.923745169	0.001123068	0.001033223	4.5463E-05	4.01869E-05	159745.4895	57845.04408	77.39147269	7815470
Los Angeles (SC)	2023	Industrial - Other Material Handling Equipment	Aggregate	300	Diesel	0.002735706	0.003310204	0.003939417	0.015788992	0.029610259	7.029237239	0.001213537	0.001116454	6.49067E-05	5.73717E-05	228055.8609	47901.70046	62.99305916	11151341
Los Angeles (SC)	2023	Industrial - Other Material Handling Equipment	Aggregate	600	Diesel	0.003017568	0.003651258	0.004345298	0.027130339	0.03202556	10.59921061	0.001217565	0.00112016	9.79044E-05	8.65093E-05	343879.7152	46379.91396	59.84340621	16796648
Los Angeles (SC)	2023	Industrial - Other Material Handling Equipment	Aggregate	750	Diesel	0.000149426	0.000180806	0.000215174	0.000631827	0.001499785	0.299624919	7.67159E-05	7.05786E-05	2.7657E-06	2.4455E-06	9721.000526	737.2371898	0.899900845	475518
Los Angeles (SC)	2023	Industrial - Other Material Handling Equipment	Aggregate	9999	Diesel	7.79592E-05	9.43306E-05	0.000112261	0.001288384	0.003076625	0.702144287	2.57022E-05	2.3646E-05	6.48933E-06	5.73081E-06	22780.29813	1105.855785	1.349851268	1114334
Los Angeles (SC)	2023	Locomotive - Line haul	Aggregate	9999	Diesel	0.148963	0.18	0.215	0.968	4.118	0	0.098	0.09	0.004	0.003	0	0	0	2.5E+08
Los Angeles (SC)	2023	Locomotive - Passenger	Aggregate	9999	Diesel	0.018611866	1.3903E-05	1.65457E-05	0.258443187	0.412596853	0	0.007566543	0.00696122	0.000719966	0.000815928	0	0	0	0
Los Angeles (SC)	2023	Locomotive - Short line	Aggregate	9999	Diesel	0.008791429	9.66115E-07	1.14976E-06	0.064449169	0.297339217	0	0.004875219	0.004485202	0.00023747	0.00021183	0	0	0	0
Los Angeles (SC)	2023	Locomotive - Switcher	Aggregate	9999	Diesel	0.143668725	0.000420432	0.000500349	0.385954959	2.228399571	0	0.047069172	0.043303638	0.001285064	0.001155811	0	0	0	0
Los Angeles (SC)	2023	Ocean Going Vessels	Aggregate		Diesel	0.719682611	0.918473319	1.097455028	1.578597888	14.44678033	1511.631911	0.416396516	0.383084795	1.621798442	0.00981682	47700089.14	0	0	8.65E+08
Los Angeles (SC)	2023	OFF - Agricultural - 2-Wheel Tractors	Aggregate	25	Gasoline	0.00095525	0.000878639	0.001051194	0.03460061	0.000701506	0.061880802	0.000393172	0.000297063	1.81722E-06	1.59579E-06	4555.2	10997.45	43.28	77000.4
Los Angeles (SC)	2023	OFF - Agricultural - Agricultural Mowers	Aggregate	25	Gasoline	0.000760842	0.000699822	0.00083726	0.032117694	0.000568038	0.052234583	0.000394095	0.00029776	1.38213E-06	1.40399E-06	4007.7	6708.7	37.23	83891.6
Los Angeles (SC)	2023	OFF - Agricultural - Agricultural Tractors	Aggregate	25	Diesel	0.004332593	0.005156143	0.006238933	0.024608267	0.039322298	5.226124595	0.001488659	0.001369567	7.07732E-05	4.37479E-05	173900.6	240677.35	451.72	4350070
Los Angeles (SC)	2023	OFF - Agricultural - Agricultural Tractors	Aggregate	100	Gasoline	0.000602119	0.000553829	0.000662595	0.025533478	0.001488162	0.462343239	3.22357E-05	2.43558E-05	4.46688E-06	6.69262E-06	19104.1	3879.95	7.11	318155.9
Los Angeles (SC)	2023	OFF - Agricultural - Agricultural Tractors	Aggregate	175	Gasoline	8.61791E-05	7.92675E-05	9.48348E-05	0.003529229	0.000339213	0.093938035	6.73436E-06	5.08818E-06	9.33176E-07	1.32343E-06	3777.75	532.9	0.99	66612.5
Los Angeles (SC)	2023	OFF - Agricultural - Balers	Aggregate	50	Gasoline	0.000109526	0.000100742	0.000120527	0.006047818	0.000199238	0.079919015	5.50955E-06	4.16277E-06	9.7167E-07	1.18789E-06	3390.85	1752	25.76	61320
Los Angeles (SC)	2023	OFF - Agricultural - Balers	Aggregate	100	Gasoline	4.8559E-05	4.46646E-05	5.34362E-05	0.001573681	0.000167009	0.073900514	5.15252E-06	3.89302E-06	7.13982E-07	1.01144E-06	2887.15	890.6	13.18	56998.4
Los Angeles (SC)	2023	OFF - Agricultural - Combines	Aggregate	100	Gasoline	1.58914E-05	1.46169E-05	1.74875E-05	0.000736418	3.99027E-05	0.039467916	2.7518E-06	2.07914E-06	3.81315E-07	5.39603E-07	1540.3	222.65	1.77	22932.95
Los Angeles (SC)	2023	OFF - Agricultural - Combines	Aggregate	175	Gasoline	1.01493E-05	9.33536E-06	1.11687E-05	0.001089405	3.78815E-05	0.033954399	2.43417E-06	1.83915E-06	3.37301E-07	4.69276E-07	1339.55	120.45	0.98	19753.8
Los Angeles (SC)	2023	OFF - Agricultural - Combines	Aggregate	300	Gasoline	1.83987E-06	1.69232E-06	2.02467E-06	0.000237911	2.16026E-05	0.007205992	5.3159E-07	4.01645E-07	7.36621E-08	1.02294E-07	292	29.2	0.18	5664.8
Los Angeles (SC)	2023	OFF - Agricultural - Hydro Power Units	Aggregate	25	Gasoline	0.000746877	0.000686978	0.000821893	0.028941377	0.000554179	0.048663162	0.000345537	0.000261073	1.34069E-06	1.29019E-06	3682.85	6821.85	17.6	67024.95
Los Angeles (SC)	2023	OFF - Agricultural - Hydro Power Units	Aggregate	25	Diesel	2.93587E-05	3.49392E-05	4.22765E-05	0.000155455	0.000266807	0.035227611	1.00346E-05	9.2318E-06	4.62003E-07	2.9475E-07	1171.65	2547.7	3.15	42690.4
Los Angeles (SC)	2023	OFF - Agricultural - Hydro Power Units	Aggregate	50	Gasoline	6.68327E-06	6.14727E-06	7.35453E-06	0.000531919	1.03316E-05	0.005486435	3.7823E-07	2.85774E-07	6.6705E-08	8.4393E-08	240.9	109.5	0.25	4161
Los Angeles (SC)	2023	OFF - Agricultural - Hydro Power Units	Aggregate	100	Gasoline	5.05555E-07	4.65009E-07	5.56332E-07	2.48697E-05	1.26957E-06	0.001177752	8.21157E-08	6.2043E-08	1.13787E-08	1.53442E-08	43.8	10.95	0.03	722.7
Los Angeles (SC)	2023	OFF - Agricultural - Other Agricultural Equipment	Aggregate	25	Gasoline	9.80912E-05	9.02243E-05	0.000107943	0.003467521	6.76314E-05	0.006193946	3.69219E-05	2.78965E-05	1.7878E-07	1.59835E-07	456.25	992.8	6.82	8668.75
Los Angeles (SC)	2023	OFF - Agricultural - Other Agricultural Equipment	Aggregate	25	Diesel	6.7956E-05	8.08733E-05	9.78567E-05	0.000362259	0.000618001	0.0815277	2.37113E-05	2.18144E-05	1.07281E-06	6.82241E-07	2711.95	4810.7	10.77	93096.9
Los Angeles (SC)	2023	OFF - Agricultural - Other Agricultural Equipment	Aggregate	50	Gasoline	4.72327E-06	4.34446E-06	5.19767E-06	0.000313937	7.91185E-06	0.003753568	2.58768E-07	1.95513E-07	4.56365E-08	5.37046E-08	153.3	98.55	0.81	2857.95
Los Angeles (SC)	2023	OFF - Agricultural - Other Agricultural Equipment	Aggregate	100	Gasoline	2.69393E-05	2.47787E-05	2.9645E-05	0.001109508	7.82935E-05	0.049668034	3.46297E-06	2.61647E-06	4.79862E-07	6.80258E-07	1941.8	573.05	4.65	38394.35
Los Angeles (SC)	2023	OFF - Agricultural - Other Agricultural Equipment	Aggregate	175	Gasoline	4.32611E-06	3.97915E-06	4.76062E-06	0.000362851	1.96192E-05	0.011178626	8.01388E-07	6.05493E-07	1.11048E-07	1.5472E-07	441.65	47.45	0.5	6453.2
Los Angeles (SC)	2023	OFF - Agricultural - Other Agricultural Equipment	Aggregate	300	Gasoline	2.29883E-06	2.11446E-06	2.52972E-06	0.000243781	2.43372E-05	0.007298471	5.38412E-07	4.068E-07	7.46074E-08	1.03573E-07	295.65	3.65	0.13	897.9
Los Angeles (SC)	2023	OFF - Agricultural - Sprayers	Aggregate	25	Gasoline	0.001626051	0.001495642	0.00178937	0.057200485	0.001028757	0.098238908	0.000597395	0.000451365	2.70571E-06	2.58166E-06	7369.35	16133	164.44	151449.4
Los Angeles (SC)	2023	OFF - Agricultural - Sprayers	Aggregate	25	Diesel	6.71432E-06	7.9906E-06	9.66863E-06	3.18228E-05	5.86533E-05	0.007479534	2.4886E-06	2.28951E-06	9.49011E-08	6.24393E-08	248.2	456.25	4.16	8668.75
Los Angeles (SC)	2023	OFF - Agricultural - Sprayers	Aggregate	50	Gasoline	2.12365E-05	1.95333E-05	2.33694E-05	0.001188659	3.81643E-05	0.015172776	1.046E-06	7.90309E-07	1.84473E-07	2.25048E-07	642.4	375.95	4.85	12406.35
Los Angeles (SC)	2023	OFF - Agricultural - Sprayers	Aggregate	100	Gasoline	3.50681E-05	3.22556E-05	3.85903E-05	0.001153278	0.000118982	0.052100939	3.6326E-06	2.74463E-06	5.03368E-07	7.18619E-07	2051.3	649.7	8.13	44179.6
Los Angeles (SC)	2023	OFF - Agricultural - Sprayers	Aggregate	175	Gasoline	1.03214E-05	9.49362E-06	1.13581E-05	0.000755447	6.04769E-05	0.02352583	1.68655E-06	1.27428E-06	2.33704E-07	3.28621E-07	938.05	153.3	1.84	21462
Los Angeles (SC)	2023	OFF - Agricultural - Swathers	Aggregate	100	Gasoline	0.00018647	0.000171515	0.000205199	0.006238305	0.000622414	0.269048399	1.87587E-05	1.41732E-05	2.59938E-06	3.70306E-06	10570.4	2511.2	26.42	220985.6
Los Angeles (SC)	2023	OFF - Agricultural - Swathers	Aggregate	175	Gasoline	0.00013348	0.000122775	0.000146887	0.009492518	0.000765618	0.294048213	2.10801E-05	1.59272E-05	2.92106E-06	4.09817E-06	11698.25	1927.2	20.26	248608.8
Los Angeles (SC)	2023	OFF - Agricultural - Tillers	Aggregate	25	Gasoline	0.01248433	0.011483087	0.013738244	0.722767573	0.009366367	1.212156453	0.000557538	0.000421251	3.45619E-05	3.18034E-05	90782.8	188062.6	2644.79	1316438
Los Angeles (SC)	2023	OFF - AirGrSupp - A/C Tug Narrow Body	Aggregate	175	Gasoline	0.003220716	0.002962415	0.003544202	0.194481548	0.020930314	4.939509758	0.00035411	0.00026755	4.90689E-05	6.96741E-05	198884.85	20870.7	28.66	2713191
Los Angeles (SC)	2023	OFF - AirGrSupp - A/C Tug Wide Body	Aggregate	600	Gasoline	0.002217403	0.002039568	0.002440117	0.236073702	0.02110263	6.74044103	0.000497246	0.000375697	6.89031E-05	9.43475E-05	269315.25	7621.2	14.78	3810600
Los Angeles (SC)	2023	OFF - AirGrSupp - Air Conditioner	Aggregate	175	Gasoline	5.31388E-08	4.88771E-08	5.8476E-08	5.58471E-06	6.11606E-07	0.00017785	1.275E-08	9.6333E-09	1.76675E-09	0	0	0	0	0
Los Angeles (SC)	2023	OFF - AirGrSupp - Air Conditioner	Aggregate	175	Nat Gas	0	0	2.55818E-08	2.3578E-05	2.7537E-06	0.000955765	0	0	0	0	62.05	0	0.2	0
Los Angeles (SC)	2023	OFF - AirGrSupp - Air Start Unit	Aggregate	175	Gasoline	5.4745E-06	5.03544E-06	6.02435E-06	0.000538161	5.88344E-05	0.016823327	1.20605E-06	9.1124E-07	1.67122E-07	2.35277E-07	671.6	62.05	0.84	8066.5
Los Angeles (SC)	2023	OFF - AirGrSupp - Baggage Tug	Aggregate	100	Gasoline	0.029996895	0.027591144	0.033009753	2.21929401	0.177549599	54.6399393	0.003809628	0.002878385	0.000527898	0.000771846	2203238.55	424732.25	483.95	42473225
Los Angeles (SC)	2023	OFF - AirGrSupp - Baggage Tug	Aggregate	100	Nat Gas	0	0	0.001039262	0.397480789	0.044881109	8.975161069	0	0	0	0	499075.45	80102.9	96.39	8010290
Los Angeles (SC)	2023	OFF - AirGrSupp - Belt Loader	Aggregate	100	Gasoline	0.007250864	0.006669345	0.007979134	0.545069404	0.042553847	12.95036333	0.00090293	0.000682214	0.000125119	0.000183342	523351.6	184551.3	227.43	11073078
Los Angeles (SC)	2023	OFF - AirGrSupp - Belt Loader	Aggregate	100	Nat Gas	0	0	7.45457E-05	0.033740981	0.003682907	0.85999789	0	0	0	0	47424.45	14067.1	25.5	844026
Los Angeles (SC)	2023	OFF - AirGrSupp - Bobtail	Aggregate	100	Gasoline	0.003644836	0.00335252	0.00401092	0.269660495	0.021573521	6.6391269	0.000462896	0.000349744	6.41432E-05	9.37849E-05	267709.25	51607.35	58.81	5160735
Los Angeles (SC)	2023	OFF - AirGrSupp - Bobtail	Aggregate	100	Nat Gas	0	0	8.57581E-06	0.005870579	0.000532491	0.163677841	0	0	0	0	8971.7	1460	1.65	146000
Los Angeles (SC)	2023	OFF - AirGrSupp - Cargo Loader	Aggregate	100	Gasoline	0.002656303	0.002443268	0.0029231	0.199538377	0.015600752	4.752427851	0.000331351	0.000250354	4.59151E-05	6.72727E-05	192030.15	58049.6	80.58	4063472
Los Angeles (SC)	2023	OFF - AirGrSupp - Cargo Loader	Aggregate	100	Nat Gas	0	0	0.00013816	0.04837982	0.005571022	1.008719097	0	0	0	0	56436.3	14140.1	13.69	989807
Los Angeles (SC)	2023	OFF - AirGrSupp - Cargo Tractor	Aggregate	100	Gasoline	0.074279388	0.068322181	0.081739935	6.90821351	0.358536136	80.74561925	0.005629779	0.004253611	0.000666644	0.001217831	3476303.8	672932.25	497.98	63928564
Los Angeles (SC)	2023	OFF - AirGrSupp - Cargo Tractor	Aggregate	175	Nat Gas	0	0	4.82993E-05	0.037786833	0.004340899	1.440613892	0	0	0	0	77759.6	8413.25	54	1309102
Los Angeles (SC)	2023	OFF - AirGrSupp - Cart	Aggregate	25	Gasoline	5.18796E-05	4.77188E-05	5.70903E-05	0.00326012	4.08512E-05	0.005513109	2.50342E-06	1.89147E-06	1.57194E-07	1.41934E-07	405.15	708.1	4.71	8497.2
Los Angeles (SC)	2023	OFF - AirGrSupp - Catering Truck	Aggregate	300	Gasoline	0.01016005	0.009345214	0.011180515	0.544411389	0.057976637	12.36907275	0.000912473	0.000689424	0.000108049	0.000175791	501794.7	52757.1	51.9	10757173
Los Angeles (SC)	2023	OFF - AirGrSupp - Catering Truck	Aggregate	300	Nat Gas	0	0	4.59481E-05	0.028121031	0.003131493	0.947253983	0	0	0	0	51424.85	4358.1	9.64	893410.5
Los Angeles (SC)	2023	OFF - AirGrSupp - Deicer	Aggregate	100	Gasoline	2.45046E-05	2.25393E-05	2.69658E-05	0.000866817	0.000162263	0.052040003	3.62835E-06	2.74142E-06	5.02779E-07	7.07111E-07	2018.45	251.85	11.45	23422.05
Los Angeles (SC)	2023	OFF - AirGrSupp - Forklift	Aggregate	50	Gasoline	0.002769027	0.002546951	0.003047146	0.257670033	0.006150162	1.958283679	0.000135002	0.000102002	2.38092E-05	3.14658E-05	89819.2	55188	75.88	2759400
Los Angeles (SC)	2023	OFF - AirGrSupp - Forklift	Aggregate	50	Nat Gas	0	0	0.000180285	0.04876347	0.013189873	3.946829129	0	0	0	0	208674.15	129140.65	177.55	6457033
Los Angeles (SC)	2023	OFF - AirGrSupp - Fuel Truck	Aggregate	175	Gasoline	2.3916E-05	2.19979E-05	2.63181E-05	0.002490603	0.000275418	0.079340651	5.68788E-06	4.29751E-06	7.88166E-07	1.10222E-06	3146.3	1080.4	48.67	140452

Los Angeles (SC)	2023	OFF - AirGrSupp - Fuel Truck	Aggregate	175	Nat Gas	0	0	1.35127E-05	0.007728046	0.000851813	0.249266012	0	0		0	0	13563.4	3500.35	6.19	490049
Los Angeles (SC)	2023	OFF - AirGrSupp - Generator	Aggregate	100	Gasoline	0.00084724	0.000779292	0.000932336	0.052828117	0.003219802	0.660430745	4.60468E-05	3.47909E-05		5.45258E-06	9.89827E-06	28254.65	3387.2	3.78	362430.4
Los Angeles (SC)	2023	OFF - AirGrSupp - Ground Power Unit	Aggregate	175	Gasoline	0.004468338	0.004109977	0.004917133	0.456968489	0.040643105	13.20180146	0.000946428	0.000715079		0.000131146	0.000184685	527184.1	51585.45	64.68	7737818
Los Angeles (SC)	2023	OFF - AirGrSupp - Hydrant truck	Aggregate	175	Gasoline	0.009576483	0.008808449	0.010538336	0.441680659	0.046295002	9.024812114	0.000646983	0.000488831		7.66118E-05	0.000129309	369113.55	46643.35	30.47	5667167
Los Angeles (SC)	2023	OFF - AirGrSupp - Lav Cart	Aggregate	25	Gasoline	5.72046E-05	5.26168E-05	6.29502E-05	0.003594755	4.50442E-05	0.006079003	2.76037E-06	2.08562E-06		1.73329E-07	1.58556E-07	452.6	781.1	5.22	9373.2
Los Angeles (SC)	2023	OFF - AirGrSupp - Lav Truck	Aggregate	175	Gasoline	0.002437556	0.002242064	0.002682382	0.183860267	0.015843567	4.632045957	0.000332068	0.000250896		4.60145E-05	6.53406E-05	186515	62648.6	51.6	8144318
Los Angeles (SC)	2023	OFF - AirGrSupp - Lav Truck	Aggregate	175	Nat Gas	0	0	4.37356E-06	0.002798592	0.000313616	0.096756055	0	0		0	0	5245.05	1470.95	3.79	191223.5
Los Angeles (SC)	2023	OFF - AirGrSupp - Lift	Aggregate	100	Gasoline	0.003859187	0.00354968	0.0042468	0.203149219	0.018518652	4.839148264	0.000337397	0.000254922		4.67529E-05	6.85642E-05	195716.65	41365.45	109.82	4136545
Los Angeles (SC)	2023	OFF - AirGrSupp - Lift	Aggregate	100	Nat Gas	0	0	9.26479E-06	0.005072722	0.000535669	0.143234633	0	0		0	0	7851.15	1412.55	4.11	141255
Los Angeles (SC)	2023	OFF - AirGrSupp - Maint. Truck	Aggregate	175	Gasoline	0.002069112	0.001903169	0.002276932	0.176655232	0.016834695	4.994051424	0.00035802	0.000270504		4.96107E-05	6.99605E-05	199702.45	33766.15	75.08	4389600
Los Angeles (SC)	2023	OFF - AirGrSupp - Other	Aggregate	50	Nat Gas	0	0	0.000176635	0.02244852	0.006990512	1.324288183	0	0		0	0	70740.65	25995.3	25.53	1299765
Los Angeles (SC)	2023	OFF - AirGrSupp - Other GSE	Aggregate	50	Gasoline	0.002091968	0.001924192	0.002302083	0.148755816	0.00437909	1.464558292	0.000100965	7.62849E-05		1.78064E-05	2.26237E-05	64579.45	24768.9	135.08	1238445
Los Angeles (SC)	2023	OFF - AirGrSupp - Passenger Stand	Aggregate	175	Gasoline	0.000752435	0.00069209	0.000828009	0.065275264	0.007160119	1.964458082	0.000140831	0.000106405		1.73859E-05	2.74303E-05	78299.8	11698.25	62.26	1463451
Los Angeles (SC)	2023	OFF - AirGrSupp - Passenger Stand	Aggregate	175	Nat Gas	0	0	1.4097E-07	0.000131805	1.54138E-05	0.00536832	0	0		0	0	292	7.3	2.23	1204.5
Los Angeles (SC)	2023	OFF - AirGrSupp - Service Truck	Aggregate	300	Gasoline	0.012589048	0.011579406	0.013853479	0.722450419	0.077410222	17.23664625	0.001271556	0.000960731		0.000176199	0.000244126	696858	216572.75	257.29	38983095
Los Angeles (SC)	2023	OFF - AirGrSupp - Service Truck	Aggregate	300	Nat Gas	0	0	0.000151037	0.084431566	0.007476858	2.406592461	0	0		0	0	131768.65	32820.8	25.22	5907744
Los Angeles (SC)	2023	OFF - AirGrSupp - Sweeper	Aggregate	50	Nat Gas	0	0	1.36342E-06	0.000351102	0.000105641	0.029318965	0	0		0	0	1543.95	620.5	2.25	27922.5
Los Angeles (SC)	2023	OFF - AirGrSupp - Sweeper	Aggregate	100	Gasoline	0.000108366	9.96751E-05	0.00011925	0.00566237	0.000525172	0.138315949	9.64372E-06	7.28637E-06		1.14195E-06	1.95382E-06	5577.2	2168.1	5.98	115559.7
Los Angeles (SC)	2023	OFF - AirGrSupp - Water Truck	Aggregate	175	Gasoline	0.000149086	0.000137129	0.00016406	0.011620735	0.001269031	0.335989554	2.40869E-05	1.8199E-05		3.3377E-06	4.70299E-06	13424.7	4927.5	15.85	739125
Los Angeles (SC)	2023	OFF - ConstMin - Asphalt Pavers	Aggregate	25	Gasoline	0.003666072	0.003372053	0.004034289	0.153884505	0.002678267	0.247610799	0.001868151	0.001411492		6.42703E-06	6.6875E-06	19089.5	16815.55	42.42	289277.1
Los Angeles (SC)	2023	OFF - ConstMin - Asphalt Pavers	Aggregate	50	Gasoline	0.000596076	0.000548271	0.000655945	0.04488779	0.000847546	0.310399535	2.13987E-05	1.61679E-05		3.77389E-06	5.0802E-06	14501.45	6212.3	15.84	198793.6
Los Angeles (SC)	2023	OFF - ConstMin - Asphalt Pavers	Aggregate	100	Gasoline	0.00029252	0.00026906	0.0003219	0.013436707	0.000770817	0.321366397	2.24064E-05	1.69293E-05		3.10485E-06	4.55594E-06	13004.95	3423.7	8.72	208845.7
Los Angeles (SC)	2023	OFF - ConstMin - Bore/Drill Rigs	Aggregate	25	Gasoline	0.001305522	0.001200819	0.001436647	0.057282271	0.00094247	0.091796972	0.000692581	0.000523284		2.35581E-06	2.48192E-06	7084.65	5376.45	43.34	89592.9
Los Angeles (SC)	2023	OFF - ConstMin - Bore/Drill Rigs	Aggregate	25	Diesel	0.000173425	0.00020639	0.000249732	0.000931195	0.001575664	0.208306128	5.93359E-05	5.4589E-05		2.74918E-06	1.74187E-06	6924.05	10442.65	12.86	161844.7
Los Angeles (SC)	2023	OFF - ConstMin - Bore/Drill Rigs	Aggregate	50	Gasoline	4.60456E-05	4.23527E-05	5.06703E-05	0.00265042	8.06195E-05	0.031424345	2.16637E-06	1.63681E-06		3.82063E-07	4.74391E-07	1354.15	521.95	4.92	16702.4
Los Angeles (SC)	2023	OFF - ConstMin - Bore/Drill Rigs	Aggregate	100	Gasoline	0.000278149	0.000255841	0.000306086	0.009425365	0.00091681	0.392275252	2.73504E-05	2.06647E-05		3.78993E-06	5.40754E-06	15435.85	2412.65	22.53	212313.2
Los Angeles (SC)	2023	OFF - ConstMin - Bore/Drill Rigs	Aggregate	175	Gasoline	6.30237E-05	5.79692E-05	6.93537E-05	0.004383413	0.000355629	0.135211976	9.69326E-06	7.32379E-06		1.34319E-06	1.88733E-06	5387.4	598.6	5.56	75423.6
Los Angeles (SC)	2023	OFF - ConstMin - Cement and Mortar Mixers	Aggregate	25	Gasoline	0.050923744	0.046839659	0.056038474	1.75809377	0.034764705	3.191852729	0.017903973	0.013527446		9.60402E-05	8.17307E-05	233300.7	601530.95	6532.91	4171038
Los Angeles (SC)	2023	OFF - ConstMin - Cement and Mortar Mixers	Aggregate	25	Diesel	0.00043601	0.000518889	0.000627855	0.003048477	0.003934022	0.533494305	0.000153994	0.000141674		7.99507E-06	4.47268E-06	17779.15	53782.75	179.09	555059.2
Los Angeles (SC)	2023	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	25	Gasoline	0.040030344	0.03681991	0.044050952	1.657249369	0.030592771	2.761963126	0.020329776	0.015360275		7.60053E-05	7.33247E-05	209305.6	261307.15	919.53	2730269
Los Angeles (SC)	2023	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	25	Diesel	1.43988E-05	1.71358E-05	2.07343E-05	7.07691E-05	0.000131024	0.017187205	4.89577E-06	4.50411E-06		2.18073E-07	1.44161E-07	573.05	759.2	1.27	13665.6
Los Angeles (SC)	2023	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	50	Gasoline	0.000807144	0.000742411	0.000888212	0.059979491	0.001300899	0.72108937	4.97112E-05	3.75596E-05		8.76713E-06	1.08483E-05	30966.6	11165.35	18.29	390787.3
Los Angeles (SC)	2023	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	50	Diesel	0.000199536	0.000237464	0.000287332	0.002077435	0.001813851	0.270122693	6.40069E-05	5.88863E-05		3.49201E-06	2.27077E-06	9026.45	6526.2	11.26	215364.6
Los Angeles (SC)	2023	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	100	Gasoline	0.000331705	0.000305103	0.000365022	0.0163479	0.000832708	0.77062344	5.37297E-05	4.05958E-05		7.4453E-06	1.05683E-05	30167.25	6398.45	10.48	422297.7
Los Angeles (SC)	2023	OFF - ConstMin - Cranes	Aggregate	50	Gasoline	0.000211197	0.000194259	0.00023241	0.014580901	0.000299195	0.095273121	6.56804E-06	4.96252E-06		1.15835E-06	1.58045E-06	4511.4	2314.1	5.56	85621.7
Los Angeles (SC)	2023	OFF - ConstMin - Cranes	Aggregate	100	Gasoline	0.000422374	0.0003885	0.000464797	0.0172134	0.001111334	0.376811088	2.62722E-05	1.98501E-05		3.64052E-06	5.37558E-06	15344.6	4631.85	11.16	342756.9
Los Angeles (SC)	2023	OFF - ConstMin - Cranes	Aggregate	175	Gasoline	1.93E-05	1.77521E-05	2.12385E-05	0.00089099	8.19921E-05	0.024761656	1.77515E-06	1.34122E-06		2.45981E-07	3.47801E-07	992.8	178.85	0.46	22356.25
Los Angeles (SC)	2023	OFF - ConstMin - Crushing/Proc. Equipment	Aggregate	25	Gasoline	0.000587734	0.000540598	0.000646765	0.024969116	0.00044528	0.04087376	0.000308381	0.000232999		1.09575E-06	1.09455E-06	3124.4	3146.3	10.9	37029.25
Los Angeles (SC)	2023	OFF - ConstMin - Crushing/Proc. Equipment	Aggregate	100	Gasoline	0.000264318	0.00024312	0.000290866	0.009950637	0.000774967	0.297770205	2.07613E-05	1.56863E-05		2.87688E-06	4.1685E-06	11899	1562.2	6.46	149971.2
Los Angeles (SC)	2023	OFF - ConstMin - Dumpers/Tenders	Aggregate	25	Gasoline	0.004672839	0.004298077	0.005142174	0.17196622	0.003367037	0.300463641	0.001983038	0.001498295		8.56985E-06	7.82041E-06	22323.4	64926.2	435.37	565045.5
Los Angeles (SC)	2023	OFF - ConstMin - Dumpers/Tenders	Aggregate	25	Diesel	4.47016E-05	5.31986E-05	6.43703E-05	0.000219705	0.000406769	0.05335818	1.52298E-05	1.40114E-05		6.77014E-07	4.45339E-07	1770.25	5102.7	7.73	81643.2
Los Angeles (SC)	2023	OFF - ConstMin - Dumpers/Tenders	Aggregate	100	Gasoline	2.37625E-05	2.18568E-05	2.61492E-05	0.00082131	7.67658E-05	0.032298327	2.25192E-06	1.70145E-06		3.12047E-07	4.43702E-07	1266.55	503.7	4.03	33244.2
Los Angeles (SC)	2023	OFF - ConstMin - Excavators	Aggregate	25	Diesel	0.000313358	0.000372922	0.000451235	0.001540126	0.002851445	0.374039978	0.000106545	9.80215E-05		4.74586E-06	3.12839E-06	12435.55	16622.1	11.9	382308.3
Los Angeles (SC)	2023	OFF - ConstMin - Other Construction Equipment	Aggregate	25	Diesel	0.001010424	0.001202488	0.00145501	0.007134862	0.009127246	1.241771572	0.000353718	0.000325421		1.86768E-05	1.04108E-05	41383.7	85942.9	124.45	1167000
Los Angeles (SC)	2023	OFF - ConstMin - Other Construction Equipment	Aggregate	175	Gasoline	0.000309326	0.000284518	0.000340394	0.026347861	0.001020479	0.797585822	5.71784E-05	4.32015E-05		7.92318E-06	1.11348E-05	31784.2	5803.5	15.61	731241
Los Angeles (SC)	2023	OFF - ConstMin - Pavers	Aggregate	25	Diesel	8.48053E-05	0.000100925	0.00012212	0.000416777	0.000771772	0.10121982	2.91001E-05	2.67721E-05		1.28429E-06	8.4844E-07	3372.6	3960.25	4.84	95046
Los Angeles (SC)	2023	OFF - ConstMin - Paving Equipment	Aggregate	25	Gasoline	0.084536067	0.077756274	0.093026785	3.079403365	0.062158771	5.511342308	0.035154961	0.026561526		0.000161795	0.000141835	404868.95	878628	4644.63	7202581
Los Angeles (SC)	2023	OFF - ConstMin - Paving Equipment	Aggregate	25	Diesel	0.00010044	0.000119532	0.000144634	0.000493655	0.000913971	0.119890707	3.41508E-05	3.14187E-05		1.52119E-06	1.0027E-06	3985.8	6938.65	8.37	131834.4
Los Angeles (SC)	2023	OFF - ConstMin - Paving Equipment	Aggregate	50	Gasoline	0.000455191	0.000418685	0.00050091	0.034167884	0.000735251	0.391359765	2.698E-05	2.03849E-05		4.75822E-06	5.92157E-06	16903.15	7573.75	43.27	280228.8
Los Angeles (SC)	2023	OFF - ConstMin - Paving Equipment	Aggregate	100	Gasoline	8.10535E-05	7.4553E-05	8.91944E-05	0.004014166	0.000210801	0.177901657	1.24037E-05	9.37171E-06		1.71878E-06	2.46612E-06	6982.45	1945.45	11.17	128399.7
Los Angeles (SC)	2023	OFF - ConstMin - Plate Compactors	Aggregate	25	Gasoline	0.035646276	0.032787444	0.039226552	1.150660659	0.024544687	2.178811747	0.011905818	0.008995507		6.63455E-05	5.48056E-05	156442.65	497710.35	2567.43	3054568
Los Angeles (SC)	2023	OFF - ConstMin - Plate Compactors	Aggregate	25	Diesel	0.000296759	0.000353168	0.000427333	0.002241535	0.002676122	0.367107938	0.000104571	9.62049E-05		5.71252E-06	3.08065E-06	12245.75	62181.4	103.54	497451.2
Los Angeles (SC)	2023	OFF - ConstMin - Rollers	Aggregate	25	Gasoline	0.018207573	0.016747325	0.020036323	0.751030244	0.013467181	1.238522935	0.00901627	0.006812293		3.33645E-05	3.3059E-05	94367.1	125158.5	502.52	1540388
Los Angeles (SC)	2023	OFF - ConstMin - Rollers	Aggregate	25	Diesel	0.001812017	0.00215645	0.002609304	0.011402579	0.016411295	2.203989997	0.000627806	0.000577581		3.13273E-05	1.846E-05	73379.6	191913.35	275.9	2293116
Los Angeles (SC)	2023	OFF - ConstMin - Rollers	Aggregate	50	Gasoline	0.001023801	0.000941693	0.001126631	0.074948428	0.001326442	0.37612981	2.59301E-05	1.95916E-05		4.57305E-06	6.60311E-06	18848.6	6927.7	11.16	256324.9
Los Angeles (SC)	2023	OFF - ConstMin - Rollers	Aggregate	100	Gasoline	0.001980947	0.001822075	0.002179911	0.085387001	0.00476251	1.417256338	9.88145E-05	7.46599E-05		1.36927E-05	2.06673E-05	58994.95	13023.2	20.96	976740
Los Angeles (SC)	2023	OFF - ConstMin - Rough Terrain Forklifts	Aggregate	50	Gasoline	0.000142832	0.000131377	0.000157178	0.009853919	0.000202552	0.064576	4.45181E-06	3.36359E-06		7.85126E-07	1.06898E-06	3051.4	912.5	2.24	42887.5
Los Angeles (SC)	2023	OFF - ConstMin - Rough Terrain Forklifts	Aggregate	100	Gasoline	0.001833597	0.001686542	0.002017761	0.074674024	0.004829538	1.639735987	0.000114326	8.63799E-05		1.58421E-05	2.33871E-05	66758.5	13088.9	31.69	1112557
Los Angeles (SC)	2023	OFF - ConstMin - Rough Terrain Forklifts	Aggregate	175	Gasoline	7.29254E-05	6.70768E-05	8.025E-05	0.00337326	0.000310207	0.093808597	6.72508E-06	5.08117E-06		9.3189E-07	1.3196E-06	3766.8	463.55	1.11	65824.1
Los Angeles (SC)	2023	OFF - ConstMin - Rubber Tired Loaders	Aggregate	25	Diesel	8.36998E-05	9.96097E-05	0.000120528	0.000411377	0.000761639	0.099908389	2.84589E-05	2.61822E-05		1.26765E-06	8.35585E-07	3321.5	4314.3	4.5	107857.5
Los Angeles (SC)	2023	OFF - ConstMin - Rubber Tired Loaders	Aggregate	50	Gasoline	0.000339967	0.000312702	0.000374113	0.025296387	0.000458421	0.145997852	1.0065E-05	7.60464E-06		1.77507E-06	2.48064E-06	7081	2861.6	5.58	114464
Los Angeles (SC)	2023	OFF - ConstMin - Rubber Tired Loaders	Aggregate	100	Gasoline	0.001996399	0.001836288	0.002196916	0.088749851	0.005019927	1.725362469	0.000120296	9.08906E-05		1.66694E-05	2.48192E-05	70846.5	18969.05	36.97	1365772
Los Angeles (SC)	2023	OFF - ConstMin - Signal Boards	Aggregate	25	Gasoline	0.000909657	0.000836703	0.001001022	0.037412697	0.00072344	0.064003129	0.000464951	0.000351297		1.83979E-06	1.67891E-06	4792.45	8303.75	31.31	64929.85
Los Angeles (SC)	2023	OFF - ConstMin - Signal Boards	Aggregate	25	Diesel	0.004638133	0.005519761	0.006678911	0.035033595	0.041825874	5.7376353	0.001634363	0.001503614		8.92827E-05	4.81279E-05	191311.1	679484	905.19	4076904
Los Angeles (SC)	2023	OFF - ConstMin - Signal Boards	Aggregate	50	Diesel	8.78076E-05	0.000104498	0.000126443	0.000899346	0.00079162	0.119400547	2.77602E-05	2.55394E-05		1.54355E-06	1.00362E-06	3989.45	2401.7	4.51	88862.9
Los Angeles (SC)	2023	OFF - ConstMin - Skid Steer Loaders	Aggregate	25	Gasoline	0.059858353	0.055057713	0.065870466	2.502162943	0.042689179	3.988877173	0.030094917	0.022738382		0.000101234	0.000108272	309063.75	280188.6	877.55	5302924
Los Angeles (SC)	2023	OFF - ConstMin - Skid Steer Loaders	Aggregate	25	Diesel	0.008201173	0.009760073	0.011809689	0.040131048	0.074672851	9.729447156	0.002905202	0.002672786		0.000123448	8.13777E-05	323481.25	515343.5	617.39	10306870
Los Angeles (SC)	2023	OFF - ConstMin - Skid Steer Loaders	Aggregate	50	Gasoline	0.002471907	0.00227366	0.002720183	0.19377932	0.003859677	2.072080954	0.000142847	0.000107929		2.51927E-05	3.16256E-05	90275.45	47190.85	152.11	1510107
Los Angeles (SC)	2023	OFF - ConstMin - Skid Steer Loaders	Aggregate	100	Gasoline	0.001420903	0.001306947	0.001563617	0.074570586	0.003580998	3.064190787	0.000213643	0.000161419		2.96044E-05	4.22323E-05	120552.2	28236.4	91	2258912
Los Angeles (SC)	2023	OFF - ConstMin - Surfacing Equipment	Aggregate	25	Gasoline	0.040704035	0.037439571	0.044792308	1.529737534	0.031523738	2.652058568	0.018568139	0.01402926		7.65688E-05	6.92521E-05	197680.35	536316.4	1253.49	4173297
Los Angeles (SC)	2023	OFF - ConstMin - Tampers/Rammers	Aggregate	25	Gasoline	0.004676397	0.00430135	0.005146089	0.218080133	0.003962478	0.411813276	0.003107011	0.00234752		1.64697E-05	1.0255E-05	29273	136787.4	750.94	577335.1
Los Angeles (SC)	2023	OFF - ConstMin - Tractors/Loaders/Backhoes	Aggregate	25	Diesel	0.001555038	0.001850624	0.002239255	0.007642878	0.014150299	1.85617436	0.000528365	0.000486096		2.35513E-05	1.55235E-05	61706.9	85501.25	90.69	1966529
Los Angeles (SC)	2023	OFF - ConstMin - Tractors/Loaders/Backhoes	Aggregate	100	Gasoline	0.000999731	0.000919552	0.001100143	0.069995466	0.002569509	1.208814497	8.42815E-05	6.36793E-05		1.16788E-05	1.75307E-05	50041.5	17089.3	19.65	1076626
Los Angeles (SC)	2023	OFF - ConstMin - Trenchers	Aggregate	25	Gasoline	0.03687595	0.033918499	0.040579734	1.52493467	0.027619446	2.4797967	0.018709344	0.014135948		6.584E-05	6.66564E-05	190270.85	195720.3	450.58	2897074
Los Angeles (SC)	2023	OFF - ConstMin - Trenchers	Aggregate	25	Diesel	0.000732754	0.000872038	0.001055166	0.003970014	0.006656374	0.880716962	0.000250872	0.000230802		1.16711E-05	7.37243E-06	29305.85	30630.8	49.51	684126.8
Los Angeles (SC)	2023	OFF - ConstMin - Trenchers	Aggregate	50	Gasoline	0.004178338	0.003843236	0.004598006	0.28710177	0.005959078	1.912429366	0.000131841	9.96133E-05		2.32517E-05	3.15463E-05	90049.15	40836.2	101.51	1225086
Los Angeles (SC)	2023	OFF - ConstMin - Trenchers	Aggregate	100	Gasoline	0.001523391	0.001401215	0.001676399	0.061798212	0.004035934	1.38059693	9.62585E-05	7.27287E-05		1.33385E-05	1.96636E-05	56129.7	13552.45	33.65	894461.7
Los Angeles (SC)	2023	OFF - Industrial - Aerial Lifts	Aggregate	25	Gasoline	0.019368033	0.017814717	0.021313339	0.801627722	0.013816554	1.277016731	0.00963472	0.007279566		3.24294E-05	3.46868E-05	99013.55	113482.15	302.34	2140568
Los Angeles (SC)	2023	OFF - Industrial - Aerial Lifts	Aggregate	25	Diesel	0.002078762	0.002473899	0.002993418	0.01191013	0.018856419	2.49506013	0.000736484	0.000677566		3.39938E-05	2.0886E-05	83022.9	180780.85	452.71	3160166
Los Angeles (SC)	2023	OFF - Industrial - Aerial Lifts	Aggregate	25	Nat Gas	0	0	0.001768333	0.47160454	0.012977748	2.775241659	0	0		0	0	185503.95	156975.55	418.24	2961095
Los Angeles (SC)	2023	OFF - Industrial - Aerial Lifts	Aggregate	50	Gasoline	0.005995517	0.005514676	0.0065977	0.494518177	0.009052582	4.684270183	0.000322929	0.000243991		5.69522E-05	7.26956E-05	207509.8	130447.35	361.03	4304763
Los Angeles (SC)	2023	OFF - Industrial - Aerial Lifts	Aggregate	100	Gasoline	0.004727761	0.004348594	0.005202612	0.262900602	0.011945089	9.40364131	0.000655644	0.000495376		9.08523E-05	0.000130333	372037.2	130447.35	361.03	8739972
Los Angeles (SC)	2023	OFF - Industrial - Forklifts	Aggregate	25	Gasoline	0.000571283	0.000525466	0.000628662	0.035323381	0.000481417	0.055839837	2.80864E-05	2.12208E-05		1.41524E-06	1.50757E-06	4303.35	6237.85	6.92	143470.6
Los Angeles (SC)	2023	OFF - Industrial - Forklifts	Aggregate	25	Nat Gas	0	0	8.55174E-05	0.013535506	0.000377938	0.070562969	0	0		0	0	4920.2	5022.4	4.01	115515.2
Los Angeles (SC)	2023	OFF - Industrial - Forklifts	Aggregate	50	Gasoline	0.151950564	0.139764129	0.167212327	17.96508306	0.354340695	63.1196142	0.00435141	0.003287732		0.000767419	0.001218824	3479136.2	2169300.85	1204.13	88941335
Los Angeles (SC)	2023	OFF - Industrial - Forklifts	Aggregate	50	Nat Gas	0	0	0.011860056	1.969377796	0.515046837	122.6943584	0	0		0	0	6536044.05	4895796.1	2717.52	2.01E+08
Los Angeles (SC)	2023	OFF - Industrial - Forklifts	Aggregate	100	Gasoline	0.320734541	0.295011631	0.352948798	30.5546582	1.598756519	373.9324178	0.026071463	0.019698439		0.003612709	0.005608559	16009651.9	7612735.65	4225.65	5.33E+08
Los Angeles (SC)	2023	OFF - Industrial - Forklifts	Aggregate	100	Nat Gas	0	0	0.070350775	33.19939293	3.32969266	735.203045	0	0		0	0	40904659.4	17182718.1	9537.69	1.2E+09
Los Angeles (SC)	2023	OFF - Industrial - Forklifts	Aggregate	175	Gasoline	0.016747368	0.015404229	0.018429457	1.16957809	0.098806922	27.72210067	0.001987379	0.001501575		0.00027539	0.000392599	1120674.1	278224.9	154.43	40620835
Los Angeles (SC)	2023	OFF - Industrial - Forklifts	Aggregate	175	Nat Gas	0	0	0.003227034	1.944855728	0.165634855	56.11560501	0	0		0	0	3070025.95	628807.4	349.03	91805880
Los Angeles (SC)	2023	OFF - Industrial - Other General Industrial Equipment	Aggregate	25	Gasoline	0.015990297	0.014707875	0.017596346	0.979821387	0.012971349	1.620012157	0.000780848	0.000589974		4.49053E-05	4.27553E-05	122045.05	218996.35	564.36	2313158
Los Angeles (SC)	2023	OFF - Industrial - Other General Industrial Equipment	Aggregate	25	Diesel	0.002553495	0.00303887	0.003677033	0.014469258	0.023786521	3.1529374	0.000898113	0.000826264		4.2153E-05	2.6387E-05	104890.05	199921.45	140.18	3602068
Los Angeles (SC)	2023	OFF - Industrial - Other General Industrial Equipment	Aggregate	50	Gasoline	0.004712772	0.004334808	0.005186118	0.453907715	0.010543007	3.153698903	0.000217413	0.000164268		3.83432E-05	5.15014E-05	147011.05	82292.9	115.31	2468787
Los Angeles (SC)	2023	OFF - Industrial - Other General Industrial Equipment	Aggregate	100	Gasoline	0.001457844	0.001340925	0.001604268	0.106527934	0.008689395	2.698459364	0.000188143	0.000142153		2.60709E-05	3.80523E-05	108620.35	27042.85	37.9	2136385
Los Angeles (SC)	2023	OFF - Industrial - Other General Industrial Equipment	Aggregate	175	Gasoline	0.000204615	0.000188205	0.000225166	0.01975866	0.001749068	0.559390801	4.01024E-05	3.02996E-05		5.55696E-06	7.83576E-06	22367.2	2617.05	3.68	455366.7
Los Angeles (SC)	2023	OFF - Industrial - Other Material Handling Equipment	Aggregate	50	Gasoline	6.46109E-05	5.94291E-05	7.11004E-05	0.00499799	0.000129812	0.032369517	2.23153E-06	1.68604E-06		3.93554E-07	5.34489E-07	1525.7	638.75	1.61	26188.75
Los Angeles (SC)	2023	OFF - Industrial - Other Material Handling Equipment	Aggregate	100	Gasoline	0.00171887	0.001581017	0.001891512	0.083447506	0.007682386	1.865317296	0.000130054	9.82633E-05		1.80216E-05	2.65493E-05	75784.95	27860.45	72.11	1504464
Los Angeles (SC)	2023	OFF - Industrial - Sweepers/Scrubbers	Aggregate	25	Gasoline	0.012204682	0.011225867	0.013430508	0.787506396	0.009984286	1.277806728	0.000597213	0.000451228		3.36525E-05	3.40027E-05	97060.8	107255.25	396.91	1387694
Los Angeles (SC)	2023	OFF - Industrial - Sweepers/Scrubbers	Aggregate	25	Diesel	0.000508528	0.00060519	0.00073228	0.003121845	0.004806023	0.641048333	0.000182602	0.000167994		8.83051E-06	5.36519E-06	21326.95	29692.75	45.65	549332.3
Los Angeles (SC)	2023	OFF - Industrial - Sweepers/Scrubbers	Aggregate	50	Gasoline	0.013056339	0.012009221	0.014367705	1.132695473	0.02858696	10.19371686	0.000702746	0.000530963		0.000123937	0.000159375	454936	173400.55	335.76	6069019
Los Angeles (SC)	2023	OFF - Industrial - Sweepers/Scrubbers	Aggregate	100	Gasoline	0.007619764	0.007008659	0.008385086	0.484279495	0.048583203	16.35038182	0.001139988	0.000861324		0.000157968	0.000227146	648389.65	144791.85	280.36	9845846
Los Angeles (SC)	2023	OFF - Industrial - Sweepers/Scrubbers	Aggregate	175	Gasoline	5.90049E-05	5.42727E-05	6.49313E-05	0.006430869	0.000575858	0.190342726	1.36455E-05	1.031E-05		1.89086E-06	2.65966E-06	7592	839.5	1.62	117530
Los Angeles (SC)	2023	OFF - Light Commercial - Air Compressors	Aggregate	25	Gasoline	0.123226834	0.113344041	0.135603613	2.843835169	0.07393498	6.243772506	0.023779933	0.01796706		0.000195026	0.000148786	424710.35	1394854.8	2885.44	8596969
Los Angeles (SC)	2023	OFF - Light Commercial - Air Compressors	Aggregate	25	Diesel	0.000541495	0.000644424	0.000779753	0.002824891	0.004757355	0.608361455	0.000203772	0.00018747		8.0712E-06	5.09615E-06	20257.5	36978.15	45.43	738643.2
Los Angeles (SC)	2023	OFF - Light Commercial - Air Compressors	Aggregate	50	Gasoline	0.00636429	0.005853874	0.007003513	0.462789031	0.008490098	2.679624645	0.000184731	0.000139574		3.25793E-05	4.54968E-05	129870.65	57801.4	119.55	2023049
Los Angeles (SC)	2023	OFF - Light Commercial - Air Compressors	Aggregate	50	Diesel	0.006553225	0.00779888	0.009436644	0.059649851	0.048112543	6.805159642	0.00197376	0.001815859		8.79737E-05	5.73661E-05	228033.75	223248.6	274.28	8260198
Los Angeles (SC)	2023	OFF - Light Commercial - Air Compressors	Aggregate	100	Gasoline	0.020527329	0.018881037	0.022589073	0.885714661	0.051603035	17.18291839	0.001198034	0.000905182		0.000166011	0.000247252	705782.25	187401.95	387.67	13118137
Los Angeles (SC)	2023	OFF - Light Commercial - Air Compressors	Aggregate	175	Gasoline	0.001841148	0.001693488	0.002026071	0.079384434	0.007196863	2.152046084	0.000154279	0.000116566		2.13783E-05	3.02689E-05	86402.8	12607.1	26.1	1689351
Los Angeles (SC)	2023	OFF - Light Commercial - Gas Compressors	Aggregate	50	Nat Gas	0	0	0.000398503	0.07058645	0.01447035	4.806896	0	0		0	0	255405.1	74708.2	8.79	2390662
Los Angeles (SC)	2023	OFF - Light Commercial - Gas Compressors	Aggregate	100	Nat Gas	0	0	0.002173067	1.1287888	0.0856242	27.01227	0	0		0	0	1494685.95	154391.35	18.17	13586439
Los Angeles (SC)	2023	OFF - Light Commercial - Gas Compressors	Aggregate	175	Nat Gas	0	0	0.000606056	0.22962932	0.022912632	7.0300331	0	0		0	0	383855.9	24903.95	2.93	3635977
Los Angeles (SC)	2023	OFF - Light Commercial - Gas Compressors	Aggregate	300	Nat Gas	0	0	0.000466253	0.26423102	0.0221668	7.2453534	0	0		0	0	397550.7	19921.7	2.35	4183557
Los Angeles (SC)	2023	OFF - Light Commercial - Gas Compressors	Aggregate	600	Nat Gas	0	0	0.00065664	0.37212541	0.031218244	10.203874	0	0		0	0	559880.8	17432.4	2.06	5892151
Los Angeles (SC)	2023	OFF - Light Commercial - Generator Sets	Aggregate	25	Gasoline	0.906273374	0.833590249	0.997298565	48.91308052	0.646364567	82.37363983	0.054556521	0.041220483		0.002256382	0.002160224	6166368.4	8707932.75	75788.93	93403861
Los Angeles (SC)	2023	OFF - Light Commercial - Generator Sets	Aggregate	25	Diesel	0.012984204	0.015452276	0.018697254	0.081248988	0.123699711	15.90864467	0.005211579	0.004794652		0.000222043	0.000133245	529655.15	871098.05	2580.4	12525964
Los Angeles (SC)	2023	OFF - Light Commercial - Generator Sets	Aggregate	50	Gasoline	0.032104247	0.029529487	0.035328766	2.037866545	0.067176913	23.26032046	0.001603546	0.001211568		0.000282803	0.000352412	1005961.9	451880.95	3934.19	14460190
Los Angeles (SC)	2023	OFF - Light Commercial - Generator Sets	Aggregate	50	Diesel	0.012475526	0.014846906	0.017964757	0.12812018	0.12338471	18.83505951	0.004329667	0.003983294		0.00024349	0.000158022	628146.75	449395.3	1331.24	14830045
Los Angeles (SC)	2023	OFF - Light Commercial - Generator Sets	Aggregate	100	Gasoline	0.007213958	0.006635398	0.00793852	0.282560276	0.040919244	11.52107538	0.000803277	0.00060692		0.00011131	0.00018935	453680.4	87267.85	759.83	7243232
Los Angeles (SC)	2023	OFF - Light Commercial - Generator Sets	Aggregate	100	Nat Gas	0	0	3.40217E-05	0.023487088	0.002530062	0.74698401	0	0		0	0	40650.05	6497	56.56	539251
Los Angeles (SC)	2023	OFF - Light Commercial - Generator Sets	Aggregate	175	Gasoline	0.000713274	0.000656069	0.000784914	0.06047408	0.007143907	1.862297478	0.000133507	0.000100872		1.85E-05	2.59751E-05	74146.1	8245.35	71.8	1203821
Los Angeles (SC)	2023	OFF - Light Commercial - Generator Sets	Aggregate	175	Nat Gas	0	0	3.77833E-05	0.028143121	0.003486141	1.089303153	0	0		0	0	58761.35	5391.05	46.87	787093.3
Los Angeles (SC)	2023	OFF - Light Commercial - Pressure Washers	Aggregate	25	Gasoline	0.097010707	0.089230448	0.106754365	3.559891521	0.05013938	6.938323228	0.009618564	0.007267359		0.000207826	0.00017144	489377.4	909036.15	7911.82	6293837
Los Angeles (SC)	2023	OFF - Light Commercial - Pressure Washers	Aggregate	25	Diesel	7.06227E-05	8.40469E-05	0.000101697	0.000511734	0.000694423	0.089868994	2.96423E-05	2.72709E-05		1.33285E-06	7.53863E-07	2996.65	12340.65	85.26	174422.6
Los Angeles (SC)	2023	OFF - Light Commercial - Pressure Washers	Aggregate	50	Gasoline	0.000282855	0.00026017	0.000311265	0.01901287	0.000476316	0.235509457	1.62358E-05	1.22671E-05		2.86337E-06	3.533E-06	10084.95	4040.55	35.17	117176
Los Angeles (SC)	2023	OFF - Light Commercial - Pressure Washers	Aggregate	50	Diesel	4.22245E-05	5.02506E-05	6.08033E-05	0.000523371	0.000569106	0.090502641	1.6922E-05	1.55682E-05		1.16997E-06	7.53863E-07	2996.65	4635.5	31.93	176149
Los Angeles (SC)	2023	OFF - Light Commercial - Pumps	Aggregate	25	Gasoline	0.305403233	0.280909894	0.336077628	10.31724347	0.210004325	19.16506426	0.119113999	0.089997244		0.000584371	0.000485712	1386467.1	3859688.85	17488.35	21416266
Los Angeles (SC)	2023	OFF - Light Commercial - Pumps	Aggregate	25	Diesel	0.007156651	0.008517006	0.010305578	0.043581861	0.063483782	8.166998064	0.002784139	0.002561408		0.000116775	6.845E-05	272092.9	585142.45	1453.71	6430763
Los Angeles (SC)	2023	OFF - Light Commercial - Pumps	Aggregate	50	Gasoline	0.004866527	0.004476232	0.005355316	0.361261507	0.007646582	3.511681616	0.000242092	0.000182914		4.26956E-05	5.43209E-05	155059.3	69404.75	314.4	2151547
Los Angeles (SC)	2023	OFF - Light Commercial - Pumps	Aggregate	50	Diesel	0.008026734	0.009552477	0.011558497	0.078767435	0.073189003	11.02389754	0.002692915	0.002477482		0.000142511	9.25755E-05	367993	234581.85	582.85	8679528
Los Angeles (SC)	2023	OFF - Light Commercial - Pumps	Aggregate	100	Gasoline	0.007843442	0.007214398	0.00863123	0.369228775	0.021544204	13.2028856	0.000920537	0.000695517		0.000127558	0.00018306	522544.95	87968.65	398.51	8181084
Los Angeles (SC)	2023	OFF - Light Commercial - Pumps	Aggregate	175	Gasoline	0.000275448	0.000253357	0.000303113	0.01999856	0.001077229	0.59939224	4.297E-05	3.24662E-05		5.95433E-06	8.3728E-06	23900.2	2649.9	11.98	381585.6
Los Angeles (SC)	2023	OFF - Light Commercial - Welders	Aggregate	25	Gasoline	0.298577902	0.274631954	0.328566768	12.43069301	0.216994982	19.97947258	0.150739293	0.113891911		0.000515983	0.000540132	1541807.45	1924013.55	9261.49	30206615
Los Angeles (SC)	2023	OFF - Light Commercial - Welders	Aggregate	25	Diesel	0.006339751	0.007544827	0.009129241	0.03587334	0.055971158	7.179363376	0.002426518	0.002232397		9.90243E-05	6.0141E-05	239064.05	611046.5	951.43	9295933
Los Angeles (SC)	2023	OFF - Light Commercial - Welders	Aggregate	50	Gasoline	0.011920107	0.010964115	0.013117351	0.762595534	0.018853342	7.04604717	0.000485748	0.00036701		8.56671E-05	0.000109899	313706.55	129786.7	624.74	5840402
Los Angeles (SC)	2023	OFF - Light Commercial - Welders	Aggregate	50	Diesel	0.027964873	0.03328051	0.040269417	0.256494553	0.216448253	31.27544006	0.00874387	0.00804436		0.000404313	0.000263328	1046743.35	880328.9	1370.81	40495129
Los Angeles (SC)	2023	OFF - Light Commercial - Welders	Aggregate	100	Gasoline	0.009120723	0.008389241	0.010036799	0.346391503	0.026933864	11.06104314	0.000771202	0.000582686		0.000106865	0.000154279	440390.75	132465.8	637.62	9272606
Los Angeles (SC)	2023	OFF - Light Commercial - Welders	Aggregate	175	Gasoline	0.000776813	0.000714513	0.000854836	0.046225756	0.003755395	1.377182406	9.87293E-05	7.45955E-05		1.36809E-05	1.92531E-05	54958.05	9125	43.97	1186250
Los Angeles (SC)	2023	OFF - Military - A/C unit	Aggregate	100	Diesel	5.74218E-05	6.83367E-05	8.26874E-05	0.001015084	0.000763507	0.173547775	3.5987E-05	3.31081E-05		2.0358E-06	1.44988E-06	5763.35	1660.75	5.54	167735.8
Los Angeles (SC)	2023	OFF - Military - A/C unit	Aggregate	300	Diesel	2.94731E-05	3.50754E-05	4.24413E-05	0.000263287	0.0003594	0.149208047	1.05855E-05	9.73863E-06		1.67885E-06	1.23869E-06	4923.85	697.15	2.31	145007.2
Los Angeles (SC)	2023	OFF - Military - A/C unit	Aggregate	600	Diesel	1.7056E-05	2.0298E-05	2.45606E-05	0.000154755	0.000199624	0.089334645	6.15666E-06	5.66413E-06		8.76849E-07	7.39171E-07	2938.25	273.75	0.9	86231.25
Los Angeles (SC)	2023	OFF - Military - Aircraft Support	Aggregate	100	Diesel	1.05096E-05	1.25073E-05	1.51338E-05	0.000185785	0.00013974	0.031763429	6.5865E-06	6.05958E-06		3.72601E-07	2.68122E-07	1065.8	456.25	1.49	31025
Los Angeles (SC)	2023	OFF - Military - Aircraft Support	Aggregate	175	Diesel	2.34581E-05	2.79171E-05	3.37797E-05	0.000478001	0.000273821	0.093421848	1.18732E-05	1.09234E-05		1.05116E-06	7.79573E-07	3098.85	649.7	2.16	90958
Los Angeles (SC)	2023	OFF - Military - Cart	Aggregate	100	Diesel	5.36518E-06	6.38501E-06	7.72586E-06	9.48439E-05	7.1338E-05	0.016215364	3.36243E-06	3.09344E-06		1.90215E-07	1.34979E-07	536.55	189.8	0.65	15373.8
Los Angeles (SC)	2023	OFF - Military - Cart	Aggregate	175	Diesel	1.92273E-06	2.2882E-06	2.76873E-06	3.9179E-05	2.24436E-05	0.007657255	9.7318E-07	8.95326E-07		8.61573E-08	6.33575E-08	251.85	58.4	0.16	8935.2
Los Angeles (SC)	2023	OFF - Military - Cart	Aggregate	300	Diesel	6.49173E-06	7.72569E-06	9.34809E-06	5.79914E-05	7.91613E-05	0.032864472	2.33155E-06	2.14503E-06		3.69782E-07	2.72713E-07	1084.05	160.6	0.52	31638.2
Los Angeles (SC)	2023	OFF - Military - Communications	Aggregate	50	Diesel	1.58744E-06	1.88919E-06	2.28592E-06	1.75195E-05	1.7437E-05	0.002669196	5.82911E-07	5.36278E-07		3.4506E-08	1.65281E-08	65.7	58.4	0.17	2336
Los Angeles (SC)	2023	OFF - Military - Communications	Aggregate	100	Diesel	2.64947E-06	3.15309E-06	3.81524E-06	4.68365E-05	3.52286E-05	0.008007587	1.66046E-06	1.52762E-06		9.39331E-08	6.61122E-08	262.8	87.6	0.32	7008
Los Angeles (SC)	2023	OFF - Military - Compressor (Military)	Aggregate	50	Diesel	1.94462E-06	2.31425E-06	2.80025E-06	2.14614E-05	2.13603E-05	0.003269765	7.14066E-07	6.56941E-07		4.22699E-08	2.66285E-08	105.85	58.4	0.17	2861.6
Los Angeles (SC)	2023	OFF - Military - Compressor (Military)	Aggregate	100	Diesel	5.91771E-05	7.04256E-05	8.5215E-05	0.001046113	0.000786846	0.178852814	3.70871E-05	3.41201E-05		2.09804E-06	1.49763E-06	5953.15	2441.85	8.13	173371.3
Los Angeles (SC)	2023	OFF - Military - Compressor (Military)	Aggregate	175	Diesel	2.79822E-06	3.33011E-06	4.02943E-06	5.70186E-05	3.2663E-05	0.011143892	1.41631E-06	1.303E-06		1.25388E-07	9.18225E-08	365	58.4	0.17	9752.8
Los Angeles (SC)	2023	OFF - Military - Compressor (Military)	Aggregate	300	Diesel	5.8788E-06	6.99626E-06	8.46547E-06	5.25161E-05	7.16872E-05	0.029761533	2.11141E-06	1.9425E-06		3.34868E-07	2.45166E-07	974.55	124.1	0.42	27674.3
Los Angeles (SC)	2023	OFF - Military - Compressor (Military)	Aggregate	600	Diesel	3.32648E-05	3.95878E-05	4.79013E-05	0.000301823	0.000389331	0.174231752	1.20075E-05	1.10469E-05		1.71014E-06	1.44529E-06	5745.1	456.25	1.49	170181.2
Los Angeles (SC)	2023	OFF - Military - Crane	Aggregate	100	Diesel	4.3658E-06	5.19566E-06	6.28675E-06	0.000157218	7.51725E-05	0.028026556	9.88957E-07	9.0984E-07		3.28766E-07	2.31393E-07	919.8	255.5	0.85	26827.5
Los Angeles (SC)	2023	OFF - Military - Crane	Aggregate	175	Diesel	8.36543E-07	9.95556E-07	1.20462E-06	3.50341E-05	6.46393E-06	0.007056686	1.95886E-07	1.80215E-07		7.93998E-08	5.96846E-08	237.25	32.85	0.16	4631.85
Los Angeles (SC)	2023	OFF - Military - Crane	Aggregate	300	Diesel	7.97226E-07	9.48765E-07	1.14801E-06	1.2078E-05	4.99496E-06	0.007140098	1.52045E-07	1.39882E-07		8.03384E-08	5.96846E-08	237.25	32.85	0.09	7029.9
Los Angeles (SC)	2023	OFF - Military - Deicer	Aggregate	100	Diesel	2.42868E-06	2.89033E-06	3.4973E-06	4.29335E-05	3.22929E-05	0.007340288	1.52209E-06	1.40032E-06		8.61053E-08	6.24393E-08	248.2	58.4	0.17	6424
Los Angeles (SC)	2023	OFF - Military - Generator (Military)	Aggregate	50	Diesel	1.01795E-05	1.21144E-05	1.46584E-05	0.000112344	0.000111815	0.017116216	3.73792E-06	3.43888E-06		2.2127E-07	1.44161E-07	573.05	434.35	1.45	16505.3
Los Angeles (SC)	2023	OFF - Military - Generator (Military)	Aggregate	100	Diesel	0.000307869	0.000366389	0.000443331	0.005442402	0.004093568	0.930481602	0.000192946	0.00017751		1.0915E-05	7.77737E-06	30915.5	10891.6	36.23	904002.8
Los Angeles (SC)	2023	OFF - Military - Generator (Military)	Aggregate	175	Diesel	0.000333134	0.000396458	0.000479714	0.006788206	0.003888604	1.326707102	0.000168615	0.000155125		1.49277E-05	1.10747E-05	44022.65	8770.95	29.16	1289330
Los Angeles (SC)	2023	OFF - Military - Generator (Military)	Aggregate	300	Diesel	0.000105084	0.000125058	0.00015132	0.000938725	0.001281408	0.531987358	3.77415E-05	3.47222E-05		5.98577E-06	4.4185E-06	17563.8	2314.1	7.7	516044.3
Los Angeles (SC)	2023	OFF - Military - Generator (Military)	Aggregate	600	Diesel	6.42873E-05	7.65071E-05	9.25736E-05	0.000583302	0.000752419	0.336719021	2.32056E-05	2.13492E-05		3.30501E-06	2.79508E-06	11110.6	938.05	3.12	326441.4
Los Angeles (SC)	2023	OFF - Military - Generator (Military)	Aggregate	750	Diesel	3.43362E-06	4.08629E-06	4.94441E-06	3.08604E-05	4.05613E-05	0.01781458	1.2405E-06	1.14126E-06		1.79121E-07	1.47834E-07	587.65	25.55	0.14	13669.25
Los Angeles (SC)	2023	OFF - Military - Hydraulic unit	Aggregate	100	Diesel	3.51331E-05	4.18113E-05	5.05917E-05	0.000621072	0.000467147	0.106183948	2.20184E-05	2.02569E-05		1.24559E-06	8.86087E-07	3522.25	1084.05	3.61	102984.8
Los Angeles (SC)	2023	OFF - Military - Lift (Military)	Aggregate	100	Diesel	1.04875E-06	1.2481E-06	1.5102E-06	1.85394E-05	1.39447E-05	0.00316967	6.57266E-07	6.04685E-07		3.71819E-08	2.57103E-08	102.2	25.55	0.14	2427.25
Los Angeles (SC)	2023	OFF - Military - Light	Aggregate	50	Diesel	2.48038E-06	2.95185E-06	3.57174E-06	2.73743E-05	2.72453E-05	0.004170618	9.10799E-07	8.37935E-07		5.39157E-08	3.21379E-08	127.75	62.05	0.25	3102.5
Los Angeles (SC)	2023	OFF - Military - Other tactical support equipment	Aggregate	50	Diesel	4.96075E-07	5.90371E-07	7.14349E-07	5.47486E-06	5.44906E-06	0.000834124	1.8216E-07	1.67587E-07		1.07831E-08	0	0	0	0	0
Los Angeles (SC)	2023	OFF - Military - Other tactical support equipment	Aggregate	100	Diesel	6.97694E-06	8.30314E-06	1.00468E-05	0.000123336	9.27688E-05	0.021086646	4.37255E-06	4.02274E-06		2.47357E-07	1.76299E-07	700.8	255.5	0.85	20184.5
Los Angeles (SC)	2023	OFF - Military - Other tactical support equipment	Aggregate	175	Diesel	9.91943E-06	1.18049E-05	1.4284E-05	0.000202126	0.000115787	0.039504095	5.02068E-06	4.61902E-06		4.44489E-07	3.30561E-07	1314	255.5	0.85	37814
Los Angeles (SC)	2023	OFF - Military - Other tactical support equipment	Aggregate	300	Diesel	4.31024E-06	5.12955E-06	6.20675E-06	3.85039E-05	5.25599E-05	0.021820674	1.54805E-06	1.42421E-06		2.4552E-07	1.8089E-07	719.05	87.6	0.32	19096.8
Los Angeles (SC)	2023	OFF - Military - Other tactical support equipment	Aggregate	600	Diesel	1.71993E-06	2.04686E-06	2.4767E-06	1.56056E-05	2.01301E-05	0.009008536	6.2084E-07	5.71172E-07		8.84217E-08	7.43763E-08	295.65	25.55	0.14	6898.5
Los Angeles (SC)	2023	OFF - Military - Other tactical support equipment	Aggregate	750	Diesel	2.01285E-06	2.39546E-06	2.8985E-06	1.80909E-05	2.37778E-05	0.010443228	7.27205E-07	6.69029E-07		1.05004E-07	8.63132E-08	343.1	0	0	0
Los Angeles (SC)	2023	OFF - Military - Pressure Washers	Aggregate	175	Diesel	1.91016E-06	2.27325E-06	2.75063E-06	3.89229E-05	2.22969E-05	0.007607208	9.66819E-07	8.89474E-07		8.55941E-08	6.33575E-08	251.85	58.4	0.16	8876.8
Los Angeles (SC)	2023	OFF - Military - Pump (Military)	Aggregate	50	Diesel	2.24424E-05	2.67084E-05	3.23171E-05	0.000247683	0.000246515	0.037735756	8.24091E-06	7.58163E-06		4.87829E-07	3.17706E-07	1262.9	938.05	3.12	36583.95
Los Angeles (SC)	2023	OFF - Military - Pump (Military)	Aggregate	100	Diesel	2.48388E-05	2.95602E-05	3.57679E-05	0.000439092	0.000330269	0.075071131	1.55668E-05	1.43215E-05		8.80623E-07	6.27148E-07	2492.95	730	2.43	73000
Los Angeles (SC)	2023	OFF - Military - Start Cart	Aggregate	100	Diesel	5.51973E-07	6.56894E-07	7.94842E-07	9.7576E-06	7.3393E-06	0.001668247	3.45929E-07	3.18255E-07		1.95694E-08	1.46916E-08	58.4	0	0	0
Los Angeles (SC)	2023	OFF - Military - Start Cart	Aggregate	600	Diesel	9.01372E-07	1.07271E-06	1.29798E-06	8.17847E-06	1.05497E-05	0.00472114	3.25366E-07	2.99337E-07		4.63395E-08	3.76472E-08	149.65	0	0	0
Los Angeles (SC)	2023	OFF - Military - Test Stand	Aggregate	100	Diesel	1.67579E-05	1.99433E-05	2.41314E-05	0.000296241	0.000222821	0.050647989	1.05024E-05	9.66222E-06		5.94127E-07	4.23302E-07	1682.65	532.9	1.78	49026.8
Los Angeles (SC)	2023	OFF - Military - Test Stand	Aggregate	175	Diesel	1.18966E-06	1.4158E-06	1.71311E-06	2.42415E-05	1.38867E-05	0.004737822	6.02142E-07	5.53971E-07		5.33086E-08	3.85655E-08	153.3	25.55	0.14	3628.1
Los Angeles (SC)	2023	OFF - Military - Test Stand	Aggregate	300	Diesel	2.01244E-05	2.39496E-05	2.89791E-05	0.000179773	0.0002454	0.101879869	7.2278E-06	6.64958E-06		1.14632E-06	8.47522E-07	3368.95	500.05	1.67	98509.85
Los Angeles (SC)	2023	OFF - Military - Test Stand	Aggregate	600	Diesel	1.31097E-05	1.56016E-05	1.8878E-05	0.000118949	0.000153436	0.06866506	4.73218E-06	4.3536E-06		6.7397E-07	5.71136E-07	2270.3	189.8	0.65	65101.4
Los Angeles (SC)	2023	OFF - Military - Welder	Aggregate	50	Diesel	7.29231E-06	8.67845E-06	1.05009E-05	8.04804E-05	8.01011E-05	0.012261618	2.67775E-06	2.46353E-06		1.58512E-07	1.02841E-07	408.8	335.8	1.13	11753
Los Angeles (SC)	2023	OFF - Military - Welder	Aggregate	100	Diesel	1.9849E-05	2.36219E-05	2.85825E-05	0.000350883	0.000263921	0.059990171	1.24396E-05	1.14445E-05		7.03716E-07	5.02269E-07	1996.55	938.05	3.12	58159.1
Los Angeles (SC)	2023	OFF - Oil Drilling - Compressors (Workover)	Aggregate	25	Diesel	2.74854E-06	3.27099E-06	3.9579E-06	1.35434E-05	2.50254E-05	0.003199756	1.02999E-06	9.47587E-07		4.05988E-08	2.57103E-08	102.2	160.6	0.16	3854.4
Los Angeles (SC)	2023	OFF - Oil Drilling - Generator (Drilling)	Aggregate	50	Diesel	2.12962E-06	2.53442E-06	3.06665E-06	1.98073E-05	1.51384E-05	0.002074605	6.10017E-07	5.61216E-07		2.68195E-08	1.46916E-08	58.4	58.4	0	1927.2
Los Angeles (SC)	2023	Oil Drilling - Drill Rig (Mobile)	Aggregate	25	Diesel	1.00523E-06	1.21633E-06	1.44753E-06	1.60269E-05	1.0196E-05	0.001848787	5.44692E-08	5.01116E-08		1.70628E-08	1.50896E-08	59.98186794	82.99293074	0.052065829	2074.823
Los Angeles (SC)	2023	Oil Drilling - Drill Rig (Mobile)	Aggregate	50	Diesel	5.08264E-06	6.14999E-06	7.319E-05	0.000231037	0.000164942	0.017950726	1.67709E-05	1.54292E-05		1.64439E-07	1.46511E-07	582.3915438	477.5998455	0.416526629	20244.96
Los Angeles (SC)	2023	Oil Drilling - Drill Rig (Mobile)	Aggregate	75	Diesel	4.52473E-06	5.47493E-06	6.51562E-06	4.07277E-05	5.15744E-05	0.004968028	3.7696E-06	3.46803E-06		4.57961E-08	4.05484E-08	161.1822005	93.77055726	0.156197486	6199.218
Los Angeles (SC)	2023	Oil Drilling - Drill Rig (Mobile)	Aggregate	100	Diesel	2.72048E-05	3.29178E-05	3.91749E-05	0.00041176	0.000312761	0.056553404	1.70183E-05	1.56568E-05		5.22048E-07	4.61581E-07	1834.812908	813.1641106	0.624789943	70734.81
Los Angeles (SC)	2023	Oil Drilling - Drill Rig (Mobile)	Aggregate	175	Diesel	0.000203409	0.000246125	0.000292909	0.002914507	0.001668743	0.443074971	0.000103147	9.48955E-05		4.09035E-06	3.61632E-06	14375.07946	3845.946559	3.176015543	551509.1
Los Angeles (SC)	2023	Oil Drilling - Drill Rig (Mobile)	Aggregate	300	Diesel	0.00020301	0.000245643	0.000292335	0.001352403	0.002045778	0.605870993	6.47029E-05	5.95267E-05		5.59549E-06	4.94504E-06	19656.81712	3237.505286	2.499159771	753864.4
Los Angeles (SC)	2023	Oil Drilling - Drill Rig (Mobile)	Aggregate	600	Diesel	0.000286947	0.000347206	0.000413204	0.001826616	0.003269646	0.844152593	0.000106715	9.81774E-05		7.796E-06	6.88986E-06	27387.6012	2406.06607	1.770238171	1047390
Los Angeles (SC)	2023	Oil Drilling - Drill Rig (Mobile)	Aggregate	750	Diesel	8.32758E-05	0.000100764	0.000119917	0.000411966	0.000796386	0.191081629	3.32583E-05	3.05976E-05		1.76415E-06	1.55958E-06	6199.433027	372.6872009	0.260329143	237605.5
Los Angeles (SC)	2023	Oil Drilling - Drill Rig (Mobile)	Aggregate	9999	Diesel	7.05478E-05	8.53628E-05	0.000101589	0.000335211	0.001405426	0.160004824	3.55087E-05	3.2668E-05		1.47721E-06	1.30594E-06	5191.180302	259.6002213	0.156197486	199652.3
Los Angeles (SC)	2023	Oil Drilling - Workover Rig (Mobile)	Aggregate	25	Diesel	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Los Angeles (SC)	2023	Oil Drilling - Workover Rig (Mobile)	Aggregate	75	Diesel	5.52392E-07	6.68394E-07	7.95444E-07	5.03799E-06	7.18548E-06	0.000642616	5.30038E-07	4.87635E-07		5.92473E-09	5.24495E-09	20.84897308	10.83726027	0.054186301	801.9573
Los Angeles (SC)	2023	Oil Drilling - Workover Rig (Mobile)	Aggregate	175	Diesel	8.22534E-06	9.95266E-06	1.18445E-05	9.97324E-05	8.22011E-05	0.014805731	5.93356E-06	5.45888E-06		1.3664E-07	1.20842E-07	480.3556365	108.8602795	0.108372603	18477.8
Los Angeles (SC)	2023	Oil Drilling - Workover Rig (Mobile)	Aggregate	300	Diesel	8.60768E-05	0.000104153	0.000123951	0.0004909	0.000737785	0.209200472	2.67692E-05	2.46276E-05		1.93158E-06	1.70747E-06	6787.278923	1188.576521	2.113265753	257998.5
Los Angeles (SC)	2023	Oil Drilling - Workover Rig (Mobile)	Aggregate	600	Diesel	0.00356182	0.004309802	0.00512902	0.025819055	0.028550523	12.55021037	0.000930735	0.000856276		0.000115926	0.000102433	407177.754	40129.12851	28.82711233	15667168
Los Angeles (SC)	2023	Oil Drilling - Workover Rig (Mobile)	Aggregate	750	Diesel	0.000222175	0.000268832	0.000319932	0.00329847	0.001379318	0.438870019	0.000106299	9.77947E-05		4.05091E-06	3.582E-06	14238.65443	874.2417863	0.541863014	545995.5
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Compressor	Aggregate	50	Diesel	1.74613E-05	2.11282E-05	2.51443E-05	0.000374203	0.00036773	0.059818996	1.12802E-05	1.03777E-05		5.52532E-07	4.88235E-07	1940.761454	2680.976163	6.591184289	111568.2
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Compressor	Aggregate	75	Diesel	0.000200031	0.000242037	0.000288044	0.00421678	0.00325001	0.645251511	5.14278E-05	4.73136E-05		5.95967E-06	5.26646E-06	20934.47467	20554.15058	50.53241289	1337902
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Compressor	Aggregate	100	Diesel	0.00046542	0.000563158	0.000670205	0.013840126	0.007169406	2.072350294	0.000519885	0.000478294		1.91459E-05	1.69142E-05	67235.123	51653.47408	126.9901506	4296933
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Compressor	Aggregate	175	Diesel	0.000637763	0.000771693	0.000918379	0.024050936	0.007929358	4.347297016	0.000305638	0.000281187		4.01738E-05	3.54821E-05	141043.264	66845.67233	164.340195	9013941
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Compressor	Aggregate	300	Diesel	0.000425268	0.000514574	0.000612386	0.004960434	0.004614735	2.607335629	0.000176414	0.000162301		2.40934E-05	2.12807E-05	84592.13302	19481.76012	47.89593917	5406203
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Compressor	Aggregate	600	Diesel	0.000628493	0.000760476	0.000905029	0.006827504	0.006667303	3.568188728	0.000256669	0.000236136		3.29708E-05	2.91231E-05	115765.9536	15549.66175	38.22886888	7398492
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Compressor	Aggregate	750	Diesel	0.000269269	0.000325816	0.000387748	0.002223767	0.004789083	1.168309015	0.000151994	0.000139834		1.07935E-05	9.53558E-06	37904.49932	3574.634884	8.788245719	2422440
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Compressor	Aggregate	9999	Diesel	1.17509E-05	1.42185E-05	1.69212E-05	0.000146587	0.000236929	0.075984705	2.75388E-06	2.53357E-06		7.02164E-07	6.20177E-07	2465.240068	178.7317442	0.439412286	157551.1
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Generator	Aggregate	50	Diesel	9.08253E-05	0.000109899	0.000130788	0.001356579	0.000918445	0.140584961	2.6565E-05	2.44398E-05		1.29705E-06	1.14744E-06	4561.124223	5366.658322	3.954710574	262204.5
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Generator	Aggregate	75	Diesel	0.002699163	0.003265987	0.003886795	0.039670966	0.029259696	5.379309645	0.000586496	0.000539577		4.96534E-05	4.39052E-05	174525.7772	170540.4756	125.6719138	11153776
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Generator	Aggregate	100	Diesel	0.002478758	0.002999298	0.003569412	0.063087234	0.025981024	8.574942056	0.00214868	0.001976786		7.92052E-05	6.99875E-05	278204.5514	186044.1552	137.0966332	17779788
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Generator	Aggregate	175	Diesel	0.005415847	0.006553174	0.007798819	0.117566263	0.042712383	18.59073378	0.002137429	0.001966434		0.000171718	0.000151735	603155.8834	277873.642	204.7661253	38547118
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Generator	Aggregate	300	Diesel	0.006580051	0.007961862	0.009475274	0.04608587	0.047200032	20.33313606	0.002081551	0.001915027		0.000187793	0.000165956	659686.2066	171733.0663	126.5507384	42159917
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Generator	Aggregate	600	Diesel	0.011097737	0.013428262	0.015980742	0.085524512	0.066978821	41.81883395	0.003041412	0.002798099		0.000386303	0.00034132	1356766.012	218244.1051	160.8248967	86709623
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Generator	Aggregate	750	Diesel	0.003436531	0.004158202	0.004948605	0.022276295	0.026195374	10.45293985	0.001228004	0.001129764		9.65395E-05	8.53155E-05	339134.1216	31603.65456	23.28885116	21673739
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Generator	Aggregate	9999	Diesel	0.022428277	0.027138216	0.032296719	0.148042622	0.350186838	68.34426316	0.009614054	0.00884493		0.000631204	0.000557817	2217354.351	113296.1201	83.48833433	1.42E+08
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	50	Diesel	1.3668E-05	1.65383E-05	1.9682E-05	0.000301974	0.000291352	0.051111028	7.5255E-06	6.92346E-06		4.72137E-07	4.17161E-07	1658.241021	2088.378816	6.591184289	95326.99
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	75	Diesel	0.000315054	0.000381215	0.000453677	0.00851524	0.006817368	1.378420233	0.000127677	0.000117463		1.27347E-05	1.12505E-05	44721.32639	40375.32378	127.4295629	2858097
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	100	Diesel	0.000536564	0.000649242	0.000772652	0.019637143	0.010037758	3.102271419	0.000677315	0.00062313		2.86659E-05	2.53203E-05	100649.7797	72397.1323	228.4943887	6432431
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	175	Diesel	0.001541647	0.001865393	0.002219972	0.055292723	0.021098391	10.03415323	0.000802061	0.000737896		9.27245E-05	8.18974E-05	325547.051	151059.401	476.7623303	20805402
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	300	Diesel	0.000614794	0.000743901	0.000885303	0.006658634	0.00694972	3.367452823	0.000263375	0.000242305		3.11153E-05	2.74847E-05	109253.2983	29654.97919	93.59481691	6982274
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	600	Diesel	0.00078368	0.000948252	0.001128498	0.008359512	0.008770036	4.428591386	0.000313946	0.00028883		4.0921E-05	3.61456E-05	143680.7703	20883.78816	65.91184289	9182501
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	750	Diesel	0.000363292	0.000439583	0.000523141	0.003639534	0.005377612	1.93996061	0.00020189	0.000185738		1.7925E-05	1.58337E-05	62939.8855	5847.460685	18.45531601	4022428
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Other Portable Equipment	Aggregate	9999	Diesel	0.003905866	0.004726097	0.005624447	0.032794598	0.094283989	17.1163481	0.002012666	0.001851653		0.000158132	0.000139701	555321.0638	14757.87697	46.57770231	35490040
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Pump	Aggregate	50	Diesel	2.93477E-06	3.55107E-06	4.22607E-06	6.3922E-05	4.87325E-05	0.010351407	5.64757E-07	5.19576E-07		9.56158E-08	8.44868E-08	335.8399847	418.5686679	1.318236858	19306.37
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Pump	Aggregate	75	Diesel	0.000206416	0.000249763	0.000297239	0.00489638	0.004041485	0.779657115	0.000102599	9.43914E-05		7.20122E-06	6.36346E-06	25295.11644	23021.27674	72.50302718	1616587
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Pump	Aggregate	100	Diesel	0.000263301	0.000318595	0.000379154	0.009437504	0.004980518	1.494894577	0.000321001	0.000295321		1.38131E-05	1.22011E-05	48500.20823	33904.0621	106.7771855	3099602
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Pump	Aggregate	175	Diesel	0.000403981	0.000488817	0.000581733	0.014397632	0.005581203	2.610030478	0.000224222	0.000206284		2.41189E-05	2.13027E-05	84679.56444	39205.93189	123.4748524	5411790
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Pump	Aggregate	300	Diesel	0.000278277	0.000336716	0.000400719	0.003650156	0.002722543	1.925071632	0.000100225	9.22074E-05		1.77899E-05	1.57122E-05	62456.829	16742.74672	52.72947432	3991556
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Pump	Aggregate	600	Diesel	0.000583622	0.000706183	0.000840416	0.006691585	0.008580478	3.641296683	0.000324125	0.000298195		3.36481E-05	2.97198E-05	118137.8607	18696.06717	58.88124632	7550078
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Pump	Aggregate	750	Diesel	0.000296925	0.00035928	0.000427572	0.003387012	0.005446403	1.846512763	0.000220309	0.000202685		1.7063E-05	1.5071E-05	59908.07302	5580.915572	17.57649144	3828668
Los Angeles (SC)	2023	Portable Equipment - Non-Rental Pump	Aggregate	9999	Diesel	0.000174074	0.00021063	0.000250667	0.001995498	0.003978502	1.053406149	6.69673E-05	6.16099E-05		9.73404E-06	8.59776E-06	34176.60239	1674.274672	5.272947432	2184194
Los Angeles (SC)	2023	Portable Equipment - Rental Compressor	Aggregate	50	Diesel	1.45693E-05	1.76288E-05	2.09798E-05	0.000335916	0.000264377	0.056762025	3.97319E-06	3.65534E-06		5.24356E-07	4.63284E-07	1841.5814	2107.859542	3.954710574	105866.6
Los Angeles (SC)	2023	Portable Equipment - Rental Compressor	Aggregate	75	Diesel	5.27501E-05	6.38276E-05	7.59601E-05	0.001086736	0.000814447	0.164520217	1.09156E-05	1.00423E-05		1.51949E-06	1.34279E-06	5337.677243	5386.752163	10.10648258	341125.9
Los Angeles (SC)	2023	Portable Equipment - Rental Compressor	Aggregate	100	Diesel	3.06911E-05	3.71362E-05	4.41952E-05	0.001034734	0.000437288	0.152942439	3.20527E-05	2.94885E-05		1.41311E-06	1.2483E-06	4962.049006	3747.350852	7.030596575	317119.8
Los Angeles (SC)	2023	Portable Equipment - Rental Compressor	Aggregate	175	Diesel	0.000516788	0.000625313	0.000744175	0.019688564	0.007127815	3.577533212	0.000220476	0.000202838		3.30606E-05	2.91993E-05	116069.1251	53633.31501	100.6254135	7417867
Los Angeles (SC)	2023	Portable Equipment - Rental Compressor	Aggregate	300	Diesel	0.00031243	0.00037804	0.000449899	0.004369954	0.001821455	2.285684812	7.72973E-05	7.11135E-05		2.11229E-05	1.86555E-05	74156.52648	16628.66972	31.1982723	4739273
Los Angeles (SC)	2023	Portable Equipment - Rental Compressor	Aggregate	600	Diesel	0.004772	0.00577412	0.00687168	0.061294562	0.037737667	32.17360136	0.001555213	0.001430796		0.000297318	0.000262597	1043837.063	121319.027	227.6155641	66710632
Los Angeles (SC)	2023	Portable Equipment - Rental Compressor	Aggregate	750	Diesel	0.000570938	0.000690835	0.000822151	0.00644145	0.004987286	3.299666555	0.000261408	0.000240495		3.04899E-05	2.69314E-05	107054.0475	10773.50433	20.21296515	6841722
Los Angeles (SC)	2023	Portable Equipment - Rental Compressor	Aggregate	9999	Diesel	0.000331758	0.000401427	0.000477731	0.004583958	0.007457804	2.424502363	0.000123701	0.000113805		2.24058E-05	1.97885E-05	78660.30904	4684.132315	8.788245719	5027105

Los Angeles (SC)	2023 Portable Equipment - Rental Generator	Aggregate	50 Diesel	1.24845E-05	1.51062E-05	1.79777E-05	0.000180332	9.66579E-05	0.017549211	6.79874E-07	6.25484E-07		1.61877E-07	1.43234E-07	569.3648315	638.6566845	0.439412286	32730.97			
Los Angeles (SC)	2023 Portable Equipment - Rental Generator	Aggregate	75 Diesel	0.002749406	0.003326782	0.003959145	0.043211227	0.031691736	5.980565587	0.000670015	0.000616414		5.52108E-05	4.88128E-05	194932.8641	186487.7519	128.3083875	12400455			
Los Angeles (SC)	2023 Portable Equipment - Rental Generator	Aggregate	100 Diesel	0.003876508	0.004690575	0.005582171	0.102064145	0.045130522	14.005062	0.003575148	0.003289136		0.000129367	0.000114307	454378.8127	303361.9251	208.7208358	29038917			
Los Angeles (SC)	2023 Portable Equipment - Rental Generator	Aggregate	175 Diesel	0.006516981	0.007885547	0.009384452	0.168991589	0.048218939	27.07939986	0.001816497	0.001671177		0.000292167	0.000221018	878561.3058	381278.0406	262.1291347	56148016			
Los Angeles (SC)	2023 Portable Equipment - Rental Generator	Aggregate	300 Diesel	0.01628572	0.019705722	0.023451638	0.12117473	0.107851817	55.32346775	0.004596414	0.004228701		0.000511004	0.000451543	1794908.983	452807.5893	311.5433107	1.15E+08			
Los Angeles (SC)	2023 Portable Equipment - Rental Generator	Aggregate	600 Diesel	0.022402585	0.027107127	0.032259722	0.174687064	0.113250741	85.31753896	0.006460199	0.005943383		0.000788131	0.000696635	2768033.526	621513.4118	290.0120387	1.77E+08			
Los Angeles (SC)	2023 Portable Equipment - Rental Generator	Aggregate	750 Diesel	0.005265139	0.00637106	0.007582088	0.028267458	0.059845362	12.36145621	0.002303701	0.002119405		0.00011413	0.000100893	403053.833	376867.4439	25.92532487	25630968			
Los Angeles (SC)	2023 Portable Equipment - Rental Generator	Aggregate	9999 Diesel	0.046831599	0.056666235	0.067437502	0.319290554	0.770089912	156.8289116	0.021219681	0.019522106		0.001448556	0.001280016	5088141.32	255462.6738	175.7649144	1.25E+08			
Los Angeles (SC)	2023 Portable Equipment - Rental Other Portable Equipment	Aggregate	50 Diesel	3.58128E-05	4.33335E-05	5.15705E-05	0.000589899	0.000469413	0.071335583	1.56149E-05	1.43657E-05		6.58458E-07	5.82231E-07	2314.404437	3154.129462	2.036473716	133047.7			
Los Angeles (SC)	2023 Portable Equipment - Rental Other Portable Equipment	Aggregate	75 Diesel	0.001093561	0.001323209	0.001574728	0.021993526	0.016433362	3.308924346	0.000221382	0.000203672		3.05413E-05	2.69907E-05	107289.5185	93347.97986	74.26067633	6856771			
Los Angeles (SC)	2023 Portable Equipment - Rental Other Portable Equipment	Aggregate	100 Diesel	0.000449961	0.000544453	0.000647944	0.01131685	0.004827349	1.754900733	0.000412937	0.000379902		1.62114E-05	1.43218E-05	56935.8216	40321.90846	32.07709688	3638714			
Los Angeles (SC)	2023 Portable Equipment - Rental Other Portable Equipment	Aggregate	175 Diesel	0.002019984	0.00244418	0.002908777	0.057391621	0.016294261	9.619051348	0.000620105	0.000570497		8.88723E-05	7.85094E-05	312079.5275	146926.4062	116.8836681	19944705			
Los Angeles (SC)	2023 Portable Equipment - Rental Other Portable Equipment	Aggregate	300 Diesel	0.001975139	0.002389918	0.00284442	0.104408496	0.012178864	6.393223239	0.000516137	0.000474846		5.90493E-05	5.21808E-05	207421.0871	54130.78122	43.06240402	13256084			
Los Angeles (SC)	2023 Portable Equipment - Rental Other Portable Equipment	Aggregate	600 Diesel	0.001368206	0.001655288	0.001969929	0.010293288	0.008642253	5.012948896	0.000392422	0.000361028		4.60862E-05	4.09176E-05	162939.6061	25408.32588	20.21296515	10399142			
Los Angeles (SC)	2023 Portable Equipment - Rental Other Portable Equipment	Aggregate	750 Diesel	0.000849229	0.001027567	0.001222889	0.007210453	0.006377549	3.599089242	0.000354857	0.000326469		3.32499E-05	2.93753E-05	116768.4868	11047.09821	8.788245719	7462563			
Los Angeles (SC)	2023 Portable Equipment - Rental Other Portable Equipment	Aggregate	9999 Diesel	0.001115	0.00134915	0.0016056	0.006899209	0.015579651	3.35580053	0.000413411	0.000380338		3.09926E-05	2.73896E-05	108875.2524	5523.549104	4.39412286	6958114			
Los Angeles (SC)	2023 Portable Equipment - Rental Pump	Aggregate	50 Diesel	1.29836E-05	1.57102E-05	1.86964E-05	0.000127883	0.000107704	0.013140559	7.69858E-06	7.08271E-06		1.09082E-07	9.66413E-08	384.1539024	430.9055356	0.439412286	22083.78			
Los Angeles (SC)	2023 Portable Equipment - Rental Pump	Aggregate	75 Diesel	0.000454622	0.000550093	0.000654656	0.009952768	0.008001857	1.513570525	0.000265752	0.000244492		1.41465E-05	1.25009E-05	49690.11697	43090.55356	41.9412286	3175648			
Los Angeles (SC)	2023 Portable Equipment - Rental Pump	Aggregate	100 Diesel	0.000666987	0.000807054	0.000960461	0.017049032	0.007723298	2.350609283	0.000625095	0.000575087		2.17125E-05	1.91854E-05	76262.92946	56879.5307	58.00242175	4873891			
Los Angeles (SC)	2023 Portable Equipment - Rental Pump	Aggregate	175 Diesel	0.001656289	0.001278109	0.001520356	0.024882611	0.009629674	3.978249114	0.000447029	0.000411267		3.67492E-05	3.24699E-05	129069.9112	56037.71963	57.12359718	8248735			
Los Angeles (SC)	2023 Portable Equipment - Rental Pump	Aggregate	300 Diesel	0.001351408	0.001635264	0.001946028	0.012518845	0.009342811	6.005077145	0.000368159	0.000338706		5.54794E-05	4.90126E-05	194828.1146	45675.98677	46.57770231	12451279			
Los Angeles (SC)	2023 Portable Equipment - Rental Pump	Aggregate	600 Diesel	0.001551845	0.001877733	0.002234657	0.01650992	0.00938094	8.518003082	0.000455842	0.000420294		7.87066E-05	6.95228E-05	276357.2291	45675.98677	46.57770231	17661727			
Los Angeles (SC)	2023 Portable Equipment - Rental Pump	Aggregate	750 Diesel	0.000287646	0.000348052	0.000414211	0.003179809	0.002717886	0.865362792	0.000122515	0.000112714		7.99115E-06	7.06218E-06	28072.49836	2585.433214	2.036473716	1794087			
Los Angeles (SC)	2023 TRU - Instate Genset TRU	Aggregate	50 Diesel	0.007187884	0.00869734	0.010350553	0.135431266	0.099658674	2.730787719	0.000450685	0.00041463		2.52012E-05	2.24378E-05	1731.405123	1044254.423	1337.551913	32894014			
Los Angeles (SC)	2023 TRU - Instate Trailer TRU	Aggregate	50 Diesel	0.142935952	0.172925201	0.205827777	2.100742115	1.324367872	31.13044317	0.018827627	0.017321417		0.000285459	0.000255787	19760.47776	7912893.908	5975.919079	2.69E+08			
Los Angeles (SC)	2023 TRU - Instate Truck TRU	Aggregate	25 Diesel	0.017970039	0.021743747	0.025876856	0.176210711	0.211018349	4.229244264	0.003480378	0.007801948		3.88246E-05	3.47501E-05	2684.572056	2129111.988	1566.373246	30020479			
Los Angeles (SC)	2023 TRU - Instate Van TRU	Aggregate	25 Diesel	0.000416019	0.000503383	0.000599367	0.004079401	0.004883222	0.097909965	0.000196327	0.000180621		8.98617E-07	8.04488E-07	62.14969925	77221.67832	56.73892603	694995.1			
Los Angeles (SC)	2023 TRU - Out-of-State Genset TRU	Aggregate	50 Diesel	0.004522233	0.005471901	0.006513015	0.085271377	0.062783722	1.720763682	0.000283739	0.000261004		1.58802E-05	1.42187E-05	1092.265756	65803.1395	5321.899626	20727414			
Los Angeles (SC)	2023 TRU - Out-of-State Trailer TRU	Aggregate	50 Diesel	0.07511359	0.090887444	0.108163577	1.195981617	0.769750743	19.53864482	0.005247183	0.004827408		0.000179603	0.000160541	12402.42395	4965929.679	23667.14873	1.69E+08			
Los Angeles (SC)	2023 TRU - Railcar TRU	Aggregate	50 Diesel	0.007775224	0.009408021	0.011196323	0.123795504	0.079679118	2.02250144	0.000543151	0.000499699		1.85912E-05	1.66181E-05	1283.81065	514037.694	1594.261372	17477282			

Proposed Project

PROPOSED PROJECT CONDITIONS

Vehicle type	Fleet percent	VMT	
	Golf Course	Golf Course	Total
LDA	54.48%	865,410	865,410
LDT1	6.28%	99,830	99,830
LDT2	18.75%	297,816	297,816
MDV	12.72%	202,117	202,117
LHD1	2.31%	36,678	36,678
LHD2	0.61%	9,663	9,663
MHD	1.05%	16,640	16,640
HHD	0.80%	12,727	12,727
OBUS	0.09%	1,469	1,469
UBUS	0.06%	971	971
MCY	2.44%	38,751	38,751
SBUS	0.07%	1,109	1,109
MH	0.34%	5,360	5,360
	100.00%	1,588,536	1,588,536

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Golf Course	403.30	403.30	403.30	1,588,536	1,588,536
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	403.30	403.30	403.30	1,588,536	1,588,536

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Golf Course	0.544785	0.062844	0.187478	0.127235	0.023089	0.006093	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006093	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

PROPOSED CONDITIONS

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent	
LDA	96.62%	0.92%	0.00%	2.46%	
LDT1	98.85%	0.03%	0.00%	1.12%	
LDT2	98.14%	0.76%	0.00%	1.10%	
MDV	96.51%	2.46%	0.00%	1.02%	
LHD1	56.77%	43.23%	0.00%	0.00%	
LHD2	35.72%	64.28%	0.00%	0.00%	
MHD	15.81%	84.19%	0.00%	0.00%	<< Equal to T6 (https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf)
HHD	0.08%	98.29%	1.63%	0.00%	<< Equal to T7 (https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf)
OBUS	39.79%	60.21%	0.00%	0.00%	<< Motor coach, all other buses, and OBUS (https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf)
UBUS	6.98%	0.25%	92.54%	0.23%	
MCY	100.00%	0.00%	0.00%	0.00%	
SBUS	34.75%	65.25%	0.00%	0.00%	
MH	74.85%	25.15%	0.00%	0.00%	

PROPOSED CONDITIONS

Vehicle type	Gasoline			Diesel			CNG			Electricity		
	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	m/kWh	kWh
LDA	836,129	31.12	26,867	7,981	48.57	164	0	0.00	0	21,300	3.07	6,948
LDT1	98,677	26.80	3,682	35	22.08	2	0	0.00	0	1,118	3.07	365
LDT2	292,275	25.20	11,597	2,265	35.74	63	0	0.00	0	3,275	3.07	1,068
MDV	195,070	20.46	9,534	4,979	27.66	180	0	0.00	0	2,068	3.07	675
LHD1	20,823	10.57	1,969	15,855	22.10	717	0	0.00	0	0	3.07	0
LHD2	3,451	9.21	375	6,212	19.90	312	0	0.00	0	0	3.07	0
MHD	2,630	5.12	514	14,010	11.00	1,274	0	0.00	0	0	3.07	0
HHD	11	4.20	3	12,509	7.00	1,786	207	2.27	91	0	3.07	0
OBUS	585	5.06	116	885	9.06	98	0	0.00	0	0	3.07	0
UBUS	68	4.35	16	2	5.66	0	898	3.93	228	2	3.07	0
MCY	38,751	35.68	1,086	0	0.00	0	0	0.00	0	0	3.07	0
SBUS	385	9.27	42	724	7.70	94	0	0.00	0	0	3.07	0
MH	4,012	5.21	771	1,348	10.67	126	0	0.00	0	0	3.07	0
	1,492,867		**56,570**	**66,804**		**4,816**	**1,105**		**320**	**27,764**		**9,056**

EMFAC Fuel Usage: Year 2022

Vehicle type	GAS			DSL			NG			ELEC
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day
All other buses	0	0	0.00	144,213	14,122	10.21	0	0	0.00	0
LDA	149,966,457	4,951,891	30.28	1,365,564	28,876	47.29	0	0	0.00	3,181,478
LDT1	17,043,180	652,540	26.12	6,627	304	21.78	0	0	0.00	144,752
LDT2	51,802,173	2,129,498	24.33	378,461	10,888	34.76	0	0	0.00	469,870
LHD1	3,836,225	367,280	10.44	2,744,971	126,149	21.76	0	0	0.00	0
LHD2	625,803	68,770	9.10	1,067,421	54,454	19.60	0	0	0.00	0
MCY	1,237,635	34,667	35.70	0	0	0.00	0	0	0.00	0
MDV	32,233,548	1,629,223	19.78	771,652	28,703	26.88	0	0	0.00	250,682
MH	190,935	37,177	5.14	61,785	5,859	10.54	0	0	0.00	0
Motor coach	0	0	0.00	91,142	13,998	6.51	0	0	0.00	0
OBUS	163,041	32,643	4.99	0	0	0.00	0	0	0.00	0
PTO	0	0	0.00	76,505	15,508	4.93	0	0	0.00	0
SBUS	55,608	6,053	9.19	109,536	14,360	7.63	0	0	0.00	0
T6	793,122	157,239	5.04	4,140,797	393,561	10.52	0	0	0.00	0
T7	5,769	1,407	4.10	6,735,541	1,021,710	6.59	106,828	47,783	2.24	0
UBUS	32,989	7,783	4.24	1,181	209	5.66	437,121	111,088	3.93	1,070
Total	**257,986,485**	**10,076,171**	**25.60**	**17,695,397**	**1,728,701**	**10.24**	**543,949**	**158,871**	**3.42**	**4,047,852**

3,496,431,421

0.36%

81875000 12419573.21

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Los Angeles (SC)	2022	All Other Buses	Aggregate	Aggregate	DSL	2387.615771	144212.5891	20055.97247	14.12157342
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	GAS	3949334.32	149966456.8	18636854.28	4951.890616
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	DSL	34750.74201	1365564.321	164528.3052	28.87579459
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	ELEC	78084.60157	3181477.948	389918.6908	0
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	GAS	458115.2498	17043179.81	2118381.376	652.5401757
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	DSL	270.6503295	6627.200698	961.4710483	0.304298206
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	ELEC	3508.68045	144752.0157	17546.16027	0
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	GAS	1372144.276	51802172.9	6443902.5	2129.497975
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	DSL	8920.377392	378460.5711	44003.20424	10.88805719
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	ELEC	14383.25646	469869.8144	72773.64326	0
Los Angeles (SC)	2022	LHD1	Aggregate	Aggregate	GAS	105423.6869	3836224.58	1570655.854	367.2799521
Los Angeles (SC)	2022	LHD1	Aggregate	Aggregate	DSL	64097.22758	2744971.33	806262.4886	126.1492688
Los Angeles (SC)	2022	LHD2	Aggregate	Aggregate	GAS	17796.61867	625803.0177	265143.1013	68.76969502
Los Angeles (SC)	2022	LHD2	Aggregate	Aggregate	DSL	25927.3097	1067421.343	326132.9395	54.45422002
Los Angeles (SC)	2022	MCY	Aggregate	Aggregate	GAS	177319.3254	1237635.154	354638.6508	34.66720507
Los Angeles (SC)	2022	MDV	Aggregate	Aggregate	GAS	921693.6708	32233548.24	4274374.135	1629.222502
Los Angeles (SC)	2022	MDV	Aggregate	Aggregate	DSL	19516.67089	771652.3864	96044.41776	28.70279505
Los Angeles (SC)	2022	MDV	Aggregate	Aggregate	ELEC	7423.218148	250681.8433	37959.59904	0
Los Angeles (SC)	2022	MH	Aggregate	Aggregate	GAS	18777.11371	190934.9774	1878.462455	37.17660803
Los Angeles (SC)	2022	MH	Aggregate	Aggregate	DSL	5865.304828	61785.30748	586.5304828	5.859423982
Los Angeles (SC)	2022	Motor Coach	Aggregate	Aggregate	DSL	676.2916755	91141.88557	9873.858462	13.99760817
Los Angeles (SC)	2022	OBUS	Aggregate	Aggregate	GAS	3972.712037	163041.1007	79486.02243	32.64328018
Los Angeles (SC)	2022	PTO	Aggregate	Aggregate	DSL	0	76505.4461	0	15.50775389
Los Angeles (SC)	2022	SBUS	Aggregate	Aggregate	GAS	1378.869452	55608.41612	5515.47781	6.053496228
Los Angeles (SC)	2022	SBUS	Aggregate	Aggregate	DSL	3460.157096	109535.682	39929.73315	14.35975618
Los Angeles (SC)	2022	T6 Ag	Aggregate	Aggregate	DSL	12.10479957	101.9666453	53.26111809	0.012181572
Los Angeles (SC)	2022	T6 CAIRP heavy	Aggregate	Aggregate	DSL	272.1638062	53846.97659	3973.591571	4.680155196
Los Angeles (SC)	2022	T6 CAIRP small	Aggregate	Aggregate	DSL	144.6349106	7530.75419	2111.669694	0.699944378
Los Angeles (SC)	2022	T6 instate construction heavy	Aggregate	Aggregate	DSL	2518.967495	168570.4564	11388.15411	16.56194729
Los Angeles (SC)	2022	T6 instate construction small	Aggregate	Aggregate	DSL	8157.753968	433957.0754	36880.88852	42.40587222
Los Angeles (SC)	2022	T6 instate heavy	Aggregate	Aggregate	DSL	10296.35106	1423092.141	118818.4637	128.9338909
Los Angeles (SC)	2022	T6 instate small	Aggregate	Aggregate	DSL	37908.6179	1932060.83	437460.1947	186.9232192
Los Angeles (SC)	2022	T6 OOS heavy	Aggregate	Aggregate	DSL	156.4590604	31080.56962	2284.302283	2.699014263
Los Angeles (SC)	2022	T6 OOS small	Aggregate	Aggregate	DSL	83.58460294	4317.240411	1220.335203	0.401773955
Los Angeles (SC)	2022	T6 Public	Aggregate	Aggregate	DSL	4445.935083	69430.49194	13486.00307	8.507368053
Los Angeles (SC)	2022	T6 utility	Aggregate	Aggregate	DSL	996.7203316	16808.24099	11462.28381	1.735997959
Los Angeles (SC)	2022	T6TS	Aggregate	Aggregate	GAS	14505.49561	793122.3284	290225.9562	157.2392835
Los Angeles (SC)	2022	T7 Ag	Aggregate	Aggregate	DSL	5.193051548	102.8930892	22.84942681	0.01852168
Los Angeles (SC)	2022	T7 CAIRP	Aggregate	Aggregate	DSL	6003.500987	1067306.387	87651.11441	155.0696328
Los Angeles (SC)	2022	T7 CAIRP construction	Aggregate	Aggregate	DSL	671.4917023	121085.6232	3035.787878	16.55458348
Los Angeles (SC)	2022	T7 NNOOS	Aggregate	Aggregate	DSL	6498.761345	1301079.701	94881.91563	179.099333
Los Angeles (SC)	2022	T7 NOOS	Aggregate	Aggregate	DSL	2371.048773	419354.6563	34617.31208	62.47642547
Los Angeles (SC)	2022	T7 POLA	Aggregate	Aggregate	DSL	8258.014728	1072153.038	62760.91194	188.7409496
Los Angeles (SC)	2022	T7 Public	Aggregate	Aggregate	DSL	5475.906144	110937.1004	16610.24862	19.0808356
Los Angeles (SC)	2022	T7 Single	Aggregate	Aggregate	DSL	5794.937297	385296.7187	66872.77297	58.88961274
Los Angeles (SC)	2022	T7 single construction	Aggregate	Aggregate	DSL	4300.116371	300391.1598	19440.65893	44.46501106
Los Angeles (SC)	2022	T7 SWCV	Aggregate	Aggregate	DSL	1379.990695	56384.18389	5381.963711	27.81339016
Los Angeles (SC)	2022	T7 SWCV	Aggregate	Aggregate	NG	2623.533087	106827.7218	10231.77904	47.782843
Los Angeles (SC)	2022	T7 tractor	Aggregate	Aggregate	DSL	12166.67647	1645420.533	154516.7912	230.7310322
Los Angeles (SC)	2022	T7 tractor construction	Aggregate	Aggregate	DSL	3592.159925	247796.2601	16240.01536	37.46414496
Los Angeles (SC)	2022	T7 utility	Aggregate	Aggregate	DSL	405.4684121	8232.431424	4662.886739	1.306947156
Los Angeles (SC)	2022	T7IS	Aggregate	Aggregate	GAS	55.2683338	5768.621752	1105.808823	1.407168754
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	GAS	460.6006493	32989.32038	1842.402597	7.783285084
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	DSL	10.1389	1181.230112	40.5556	0.208547568
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	ELEC	12	1070.403311	48	0
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	NG	4129.345993	437121.0718	16517.38397	111.0876976

EMFAC Fuel Usage: Year 2023

Vehicle type	GAS			DSL			NG			ELEC
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day
All other buses	0	0	0.00	148,348	14,082	10.53	0	0	0.00	0
LDA	149,418,106	4,801,115	31.12	1,426,245	29,363	48.57	0	0	0.00	3,806,342
LDT1	17,372,475	648,191	26.80	6,133	278	22.08	0	0	0.00	196,782
LDT2	52,162,943	2,069,800	25.20	404,272	11,313	35.74	0	0	0.00	584,569
LHD1	3,800,052	359,383	10.57	2,893,383	130,924	22.10	0	0	0.00	0
LHD2	625,879	67,954	9.21	1,126,544	56,597	19.90	0	0	0.00	0
MCY	1,265,085	35,455	35.68	0	0	0.00	0	0	0.00	0
MDV	32,264,362	1,576,940	20.46	823,486	29,770	27.66	0	0	0.00	342,100
MH	191,392	36,760	5.21	64,319	6,026	10.67	0	0	0.00	0
Motor coach	0	0	0.00	92,744	13,826	6.71	0	0	0.00	0
OBUS	159,343	31,499	5.06	0	0	0.00	0	0	0.00	0
PTO	0	0	0.00	77,199	14,935	5.17	0	0	0.00	0
SBUS	58,916	6,358	9.27	110,638	14,360	7.70	0	0	0.00	0
T6	797,300	155,868	5.12	4,246,866	386,115	11.00	0	0	0.00	0
T7	5,905	1,406	4.20	6,872,058	981,183	7.00	113,852	50,168	2.27	0
UBUS	33,184	7,630	4.35	1,181	209	5.66	439,713	111,745	3.93	1,070
Total	**258,154,940**	**9,798,359**	**26.35**	**18,293,417**	**1,688,982**	**10.83**	**553,565**	**161,913**	**3.42**	**4,930,863**

3,400,030,661

0.34%

81875000 11690001.06

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Los Angeles (SC)	2023	All Other Buses	Aggregate	Aggregate	DSL	2413.362241	148347.7525	20272.24282	14.0818541
Los Angeles (SC)	2023	LDA	Aggregate	Aggregate	GAS	3986929.129	149418105.6	18815397.63	4801.114553
Los Angeles (SC)	2023	LDA	Aggregate	Aggregate	DSL	36740.62878	1426244.815	174171.2985	29.36298643
Los Angeles (SC)	2023	LDA	Aggregate	Aggregate	ELEC	91678.53845	3806341.937	457107.9273	0
Los Angeles (SC)	2023	LDT1	Aggregate	Aggregate	GAS	472375.6724	17372474.6	2187811.198	648.1906909
Los Angeles (SC)	2023	LDT1	Aggregate	Aggregate	DSL	252.4118747	6132.921962	894.9059766	0.277775308
Los Angeles (SC)	2023	LDT1	Aggregate	Aggregate	ELEC	4635.248736	196781.6242	23233.68477	0
Los Angeles (SC)	2023	LDT2	Aggregate	Aggregate	GAS	1397479.324	52162943.36	6567821.268	2069.799895
Los Angeles (SC)	2023	LDT2	Aggregate	Aggregate	DSL	9765.230182	404272.1374	48008.05802	11.31280557
Los Angeles (SC)	2023	LDT2	Aggregate	Aggregate	ELEC	18283.62829	584568.8418	92279.45183	0
Los Angeles (SC)	2023	LHD1	Aggregate	Aggregate	GAS	105195.9307	3800052.408	1567262.626	359.3833271
Los Angeles (SC)	2023	LHD1	Aggregate	Aggregate	DSL	68776.35703	2893383.107	865120.0508	130.9243641
Los Angeles (SC)	2023	LHD2	Aggregate	Aggregate	GAS	17937.98852	625878.5235	267249.3013	67.95438628
Los Angeles (SC)	2023	LHD2	Aggregate	Aggregate	DSL	27873.77545	1126544.027	350617.0299	56.59739854
Los Angeles (SC)	2023	MCY	Aggregate	Aggregate	GAS	183955.3723	1265084.637	367910.7446	35.45479504
Los Angeles (SC)	2023	MDV	Aggregate	Aggregate	GAS	931795.9713	32264362.15	4326648.043	1576.940395
Los Angeles (SC)	2023	MDV	Aggregate	Aggregate	DSL	21297.50738	823486.0536	104465.3428	29.77006577
Los Angeles (SC)	2023	MDV	Aggregate	Aggregate	ELEC	10378.92649	342100.1259	52903.33041	0
Los Angeles (SC)	2023	MH	Aggregate	Aggregate	GAS	18786.35518	191391.548	1879.386973	36.76042896
Los Angeles (SC)	2023	MH	Aggregate	Aggregate	DSL	6166.797629	64319.47927	616.6797629	6.026053915
Los Angeles (SC)	2023	Motor Coach	Aggregate	Aggregate	DSL	658.0910352	92743.98303	9608.129114	13.82589661
Los Angeles (SC)	2023	OBUS	Aggregate	Aggregate	GAS	3965.955178	159342.8081	79350.83121	31.49929974
Los Angeles (SC)	2023	PTO	Aggregate	Aggregate	DSL	0	77198.6472	0	14.93547066
Los Angeles (SC)	2023	SBUS	Aggregate	Aggregate	GAS	1481.565044	58916.21473	5926.260176	6.358131428
Los Angeles (SC)	2023	SBUS	Aggregate	Aggregate	DSL	3497.078427	110638.3688	40355.80019	14.36000383
Los Angeles (SC)	2023	T6 Ag	Aggregate	Aggregate	DSL	11.67476155	97.073849	51.36895084	0.011080203
Los Angeles (SC)	2023	T6 CAIRP heavy	Aggregate	Aggregate	DSL	280.5602581	54871.42749	4096.179768	4.630891473
Los Angeles (SC)	2023	T6 CAIRP small	Aggregate	Aggregate	DSL	147.0353228	7680.714425	2146.715713	0.690922567
Los Angeles (SC)	2023	T6 instate construction heavy	Aggregate	Aggregate	DSL	2593.685207	170789.0459	11725.94998	16.01357351
Los Angeles (SC)	2023	T6 instate construction small	Aggregate	Aggregate	DSL	7838.439815	439668.4712	35437.28165	40.85987457
Los Angeles (SC)	2023	T6 instate heavy	Aggregate	Aggregate	DSL	10535.34865	1466280.47	121576.4628	127.6396288
Los Angeles (SC)	2023	T6 instate small	Aggregate	Aggregate	DSL	37375.9816	1984183.072	431313.6457	183.0271301
Los Angeles (SC)	2023	T6 OOS heavy	Aggregate	Aggregate	DSL	161.7713139	31697.11686	2361.861183	2.673821474
Los Angeles (SC)	2023	T6 OOS small	Aggregate	Aggregate	DSL	84.77351604	4403.138169	1237.693334	0.39634697
Los Angeles (SC)	2023	T6 Public	Aggregate	Aggregate	DSL	4479.460204	70241.70163	13587.69594	8.450363812
Los Angeles (SC)	2023	T6 utility	Aggregate	Aggregate	DSL	1011.45952	16954.26417	11631.78448	1.721713991
Los Angeles (SC)	2023	T6TS	Aggregate	Aggregate	GAS	14623.10816	797300.0842	292579.148	155.8676623
Los Angeles (SC)	2023	T7 Ag	Aggregate	Aggregate	DSL	5.450542727	89.56607012	23.982388	0.015745035
Los Angeles (SC)	2023	T7 CAIRP	Aggregate	Aggregate	DSL	5967.126018	1085857.383	87120.03986	152.0768811
Los Angeles (SC)	2023	T7 CAIRP construction	Aggregate	Aggregate	DSL	672.7726984	122679.2552	3041.579212	16.23989484
Los Angeles (SC)	2023	T7 NNOOS	Aggregate	Aggregate	DSL	6698.602472	1323677.931	97799.59609	176.2912352
Los Angeles (SC)	2023	T7 NOOS	Aggregate	Aggregate	DSL	2364.918201	426649.092	34527.80573	61.26348855
Los Angeles (SC)	2023	T7 POLA	Aggregate	Aggregate	DSL	8486.558826	1131828.731	64497.84707	175.4952223
Los Angeles (SC)	2023	T7 Public	Aggregate	Aggregate	DSL	5541.588258	112265.4557	16809.48436	19.02171313
Los Angeles (SC)	2023	T7 Single	Aggregate	Aggregate	DSL	5934.360332	388787.818	68481.69547	56.1742218
Los Angeles (SC)	2023	T7 single construction	Aggregate	Aggregate	DSL	4385.71399	304344.6678	19827.64243	42.88123171
Los Angeles (SC)	2023	T7 SWCV	Aggregate	Aggregate	DSL	1255.519365	51298.487	4896.525523	25.30419893
Los Angeles (SC)	2023	T7 SWCV	Aggregate	Aggregate	NG	2795.817267	113851.643	10903.68734	50.16782394
Los Angeles (SC)	2023	T7 tractor	Aggregate	Aggregate	DSL	12205.73158	1665217.666	155012.7911	219.5996373
Los Angeles (SC)	2023	T7 tractor construction	Aggregate	Aggregate	DSL	3685.502446	251057.5562	16662.01327	35.5101791
Los Angeles (SC)	2023	T7 utility	Aggregate	Aggregate	DSL	409.1727144	8303.947199	4705.486215	1.309375599
Los Angeles (SC)	2023	T7IS	Aggregate	Aggregate	GAS	52.86814563	5904.510911	1057.785858	1.405502268
Los Angeles (SC)	2023	UBUS	Aggregate	Aggregate	GAS	463.3229945	33183.96593	1853.291978	7.630187276
Los Angeles (SC)	2023	UBUS	Aggregate	Aggregate	DSL	10.1389	1181.230112	40.5556	0.208547568
Los Angeles (SC)	2023	UBUS	Aggregate	Aggregate	ELEC	12	1070.403311	48	0
Los Angeles (SC)	2023	UBUS	Aggregate	Aggregate	NG	4153.840831	439713.4848	16615.36332	111.7447779