APPENDIX 1



Jefferson Avenue Apartments AIR QUALITY IMPACT ANALYSIS CITY OF MURRIETA

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LIST OF ABBREVIATED TERMS

% Percent

°F Degrees Fahrenheit

(1) Reference

μg/m³ Microgram per Cubic Meter

1992 CO Plan 1992 Federal Attainment Plan for Carbon Monoxide

1993 CEQA Handbook SCAQMD's CEQA Air Quality Handbook (1993)
2003 AQMP SCAQMD's 2003 Air Quality Management Plan

2016 AQMP SCAQMD's Final 2019 Air Quality Management Plan 2016-2040 RTP/SCS 2016-2040 Regional Transportation Plan/Sustainable

Communities Strategy

AB 2595 California Clean Air Act
AQIA Air Quality Impact Analysis
AQMP Air Quality Management Plan
BACM Best Available Control Measures

BAAQMD Bay Area Air Quality Management District

C₂H₃Cl Vinyl Chloride

CAA Federal Clean Air Act

CAAQS California Ambient Air Quality Standards
CalEEMod California Emissions Estimator Model

CalEPA California Environmental Protection Agency
CALGreen California Green Building Standards Code
Caltrans California Department of Transportation

CAPCOA California Air Pollution Control Officers Association

CARB California Air Resources Board
CCR California Code of Regulations
CEC California Energy Commission

CEQA California Environmental Quality Act
CEQA Guidelines 2019 CEQA Statute and Guidelines

City City of Murrieta
CO Carbon Monoxide
COHb Carboxyhemoglobin

DU Dwelling Units

EIR Environmental Impact Reports

EMFAC Emission Factor Model

EPA Environmental Protection Agency

EV Electric Vehicle



GHG Greenhouse Gas
H₂S Hydrogen Sulfide
HI Hazard Index
hp Horsepower
I-15 Interstate 15
Ibs Pounds

Ibs/day Pounds Per Day
LED Light-emitting Diode

LST Localized Significance Threshold

LST Methodology Final Localized Significance Threshold Methodology

MFR Multi-Family Residential

MICR Maximum Individual Cancer Risk

MM Mitigation Measures

MWELO California Department of Water Resources' Model Water

Efficient

N₂ Nitrogen

N₂O Nitrous Oxide

NAAQS National Ambient Air Quality Standards

NO Nitric Oxide

NO₂ Nitrogen Dioxide NO_X Nitrogen Oxides

 O_2 Oxygen O_3 Ozone

O₂ Deficiency Chronic Hypoxemia

OPR Office of Planning and Research

Pb Lead

PM₁₀ Particulate Matter 10 microns in diameter or less PM_{2.5} Particulate Matter 2.5 microns in diameter or less

ppm Parts Per Million

Project Jefferson Avenue Apartments

PV Photovoltaic

RECLAIM Regional Clean Air Incentives Market

ROG Reactive Organic Gases

SB Senate Bill

SCAB South Coast Air Basin

SCAG Southern California Association of Governments
SCAQMD South Coast Air Quality Management District

sf Square Feet



SIPs State Implementation Plans

SO₂ Sulfur Dioxide

SO₄ Sulfates

SO_X Sulfur Oxides

SRA Source Receptor Area
TAC Toxic Air Contaminant

TIA Jefferson Avenue Apartments Traffic Impact Analysis

Title 24 California Building Code

TITLE I Non-Attainment Provisions

TITLE II Mobile Sources Provisions

TSF Thousand Square Feet

UFP Ultra Fine Particles

UTRS Utility Tractors

VMT Vehicle Miles Traveled

VOC Volatile Organic Compounds

vph Vehicles Per Hour



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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Jefferson Avenue Apartments Air Quality Impact Analysis* (AQIA) are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (*CEQA Guidelines*) (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures (MM) described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report	Significance Findings	
Analysis	Section	Unmitigated	Mitigated
Regional Construction Emissions	3.4	Less Than Significant	n/a
Localized Construction Emissions	3.7	Less Than Significant	n/a
Regional Operational Emissions	3.5	Less Than Significant	n/a
Localized Operational Emissions	3.8	Less Than Significant	n/a
CO "Hot Spot" Analysis	3.9	Less Than Significant	n/a
Air Quality Management Plan	3.10	Less Than Significant	n/a
Sensitive Receptors	3.11	Less Than Significant	n/a
Odors	3.12	Less Than Significant	n/a
Cumulative Impacts	3.13	Less Than Significant	n/a

ES.2 STANDARD REGULATORY REQUIREMENTS

There are numerous requirements that development projects must comply with by law, and that were put in place by federal, State, and local regulatory agencies for the improvement of air quality. The two most pertinent regulatory requirements that apply to the proposed Project and which are required by South Coast Air Quality Management District (SCAQMD) Rules that are currently applicable during construction activity for this Project include but are not limited to



Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). As such, credit for Rule 403 and Rule 1113 have been taken in the analysis.

SCAQMD RULE 403

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures (BACM) to be applied to earth moving and grading activities.

SCAQMD RULE 1113

This rule serves to limit the Volatile Organic Compound (VOC) content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects in the SCAQMD must comply with the current VOC standards set in this rule.

ES.3 CONSTRUCTION AND OPERATIONAL-SOURCE EMISSIONS MMS

The Project would not result in an exceedance of any regional or localized construction or operational-source emissions thresholds. As such, the Project would not result in any significant impacts and no MMs are required.



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1 INTRODUCTION

This report presents the results of the air quality impact analysis (AQIA) prepared by Urban Crossroads, Inc., for the proposed Jefferson Avenue Apartments (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the proposed Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

1.1 SITE LOCATION

The proposed Jefferson Avenue Apartments Project is located along Jefferson Avenue northwest of the intersection of Jefferson Avenue and Murrieta Hot Springs Road in the City of Murrieta, as shown in Exhibit 1-B.

Existing land uses near the site include commercial/business complex to the northwest and a commercial shopping center to the northeast of the Project site. Interstate 15 (I-15) is located approximately 0.28 miles northeast of the Project site. The Project site is currently vacant and is designated for Multiple-Family Residential (MFR) land uses. The MFR designation provides for attached and detached apartments and condominiums. Typical development consists of townhomes, condominiums, apartments, senior housing, and stacked flats. MFR encourages the development of integrated projects that provide complementary open spaces and amenities on-site (4).

1.2 PROJECT DESCRIPTION

The site plan for the proposed Project is shown on Exhibit 1-B. The Project is to consist of 160 multifamily (mid-rise) dwelling units (DU). It is anticipated that the Project would be developed in a single phase with an anticipated Opening Year of 2022.



EXHIBIT 1-A: LOCATION MAP





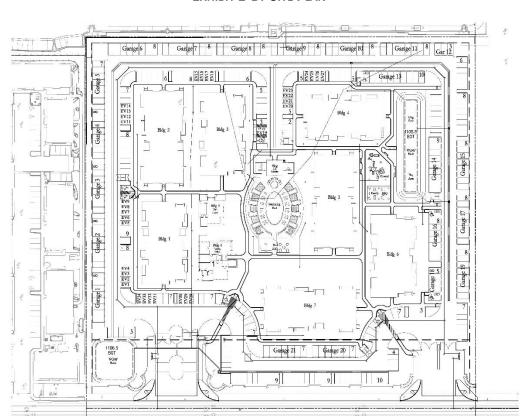


EXHIBIT 1-B: SITE PLAN



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2 AIR QUALITY SETTING

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

2.1 SOUTH COAST AIR BASIN (SCAB)

The Project site is located in the SCAB within the jurisdiction of SCAQMD (5). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Los Angeles County portion of the Mojave Desert Air Basin is bounded by the San Gabriel Mountains to the south and west, the Los Angeles / Kern County border to the north, and the Los Angeles / San Bernardino County border to the east. The Riverside County portion of the Salton Sea Air Basin is bounded by the San Jacinto Mountains in the west and spans eastward up to the Palo Verde Valley.

2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s degrees Fahrenheit (°F). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO_2) to sulfates (SO_4) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71 percent (%) along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los



Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings 5 to 10 periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as Nitrogen Oxides (NO_X) and carbon monoxide (CO) from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

2.3 WIND PATTERNS AND PROJECT LOCATION

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and



low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

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

2.4 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (6):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
СО	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O ₃), motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen (O ₂) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O ₂ transport and competing with O ₂ to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O ₂ supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O ₂ deficiency) as seen at high altitudes.



Criteria Pollutant	Description	Sources	Health Effects
Criteria Pollutant SO2	SO ₂ is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO ₂ oxidizes in the atmosphere, it forms SO ₄ . Collectively, these pollutants are referred to as sulfur oxides (SO _X).	Coal or oil burning power plants and industries, refineries, diesel engines	Health Effects A few minutes of exposure to low levels of SO ₂ can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO ₂ . In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO ₂ . Animal studies suggest that despite SO ₂ being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract. Some population-based
			concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract.



Criteria Pollutant	Description	Sources	Health Effects
NOx	NO _x consist of nitric oxide (NO), nitrogen dioxide (NO ₂) and nitrous oxide (N ₂ O) and are formed when nitrogen (N ₂) combines with O ₂ . Their lifespan in the atmosphere ranges from 1 to 7 days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO _x is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO ₂ is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO ₂ is the most abundant in the atmosphere. As ambient concentrations of NO ₂ are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO ₂ than those indicated by regional monitoring station.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups. In animals, exposure to levels of NO2 considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O3 exposure increases when animals are exposed to a combination of O3 and NO2.
O ₃	O ₃ is a highly reactive and unstable gas that is formed when VOCs and NOx, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O ₃ concentrations are generally highest during the summer	Formed when reactive organic gases (ROG) and NO _X react in the presence of sunlight. ROG sources include any source	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible subgroups for O ₃ effects. Shortterm exposure (lasting for a



Criteria Pollutant	Description	Sources	Health Effects
	months when direct sunlight,	that burns fuels,	few hours) to O₃ at levels
	light wind, and warm	(e.g., gasoline,	typically observed in
	temperature conditions are	natural gas, wood,	Southern California can result
	favorable to the formation of this	oil) solvents,	in breathing pattern changes,
	pollutant.	petroleum	reduction of breathing
		processing and	capacity, increased
		storage and	susceptibility to infections,
		pesticides.	inflammation of the lung
			tissue, and some
			immunological changes.
			Elevated O₃ levels are
			associated with increased
			school absences. In recent
			years, a correlation between
			elevated ambient O₃ levels
			and increases in daily hospital
			admission rates, as well as
			mortality, has also been
			reported. An increased risk
			for asthma has been found in
			children who participate in multiple outdoor sports and
			live in communities with high
			O ₃ levels.
			O ₃ exposure under exercising
			conditions is known to
			increase the severity of the responses described above.
			Animal studies suggest that
			exposure to a combination of
			pollutants that includes O ₃
			may be more toxic than
			exposure to O ₃ alone.
			Although lung volume and
			resistance changes observed
			after a single exposure
			diminish with repeated
			exposures, biochemical and
			cellular changes appear to
			persist, which can lead to
			subsequent lung structural
			changes.
	D14 A	6 655	
Particulate Matter	PM ₁₀ : A major air pollutant	Sources of PM ₁₀	A consistent correlation
	consisting of tiny solid or liquid	include road dust,	between elevated ambient
	particles of soot, dust, smoke,	windblown dust and	fine particulate matter (PM ₁₀
	fumes, and aerosols. Particulate	construction. Also formed from other	and PM _{2.5}) levels and an
	matter pollution is a major cause of reduce visibility (haze) which is	pollutants (acid	increase in mortality rates, respiratory infections,
		·	-
	caused by the scattering of light	rain, NOx, SOx,	number and severity of



Criteria Pollutant	Description	Sources	Health Effects
Criteria Poliutant	and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM ₁₀ is considered a criteria air pollutant. PM _{2.5} : A similar air pollutant to PM ₁₀ consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO ₄ formed from SO ₂ release from power plants and industrial facilities and nitrates that are formed from NO _x release from power plants, automobiles, and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. PM _{2.5} is a criteria air pollutant.	organics). Incomplete combustion of any fuel. PM2.5 comes from fuel combustion in motor vehicles, equipment, and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NOx, SOx, organics).	asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer. Daily fluctuations in PM2.5 concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter. The elderly, people with preexisting respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM10 and PM2.5.
VOC	VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not	Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products.	Breathing VOCs can irritate the eyes, nose, and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.



Criteria Pollutant	Description	Sources	Health Effects
	form O ₃ to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O ₃ , which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	Fuels are made up of organic chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored.	
ROG	Similar to VOC, ROGs are also precursors in forming O ₃ and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO _X react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O ₃ , which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include	Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure.



Criteria Pollutant	Description	Sources	Health Effects
	operational activities such as metal processing or Pb acid battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of Pb emissions.		Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (7).	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.



2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (8).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by California Air Resources Board (CARB) on May ,4 2016 and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O₃, CO (except 8-hour Lake Tahoe), SO₂ (1 and 24 hour), NO₂, PM₁₀, and PM_{2.5} are not to be exceeded. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the SCAQMD meets the standards set by the Environmental Protection Agency (EPA) or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by CARB. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (9).



TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

			Air Qualit				
Pollutant	Averaging	California Standards 1		Nat	tional Standards	2	
	Time	Concentration ³	Method 4	Primary 3,5	Secondary 3,6	Method ⁷	
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 μg/m³)	Ultraviolet Photometry	-	Same as Primary Standard	Ultraviolet Photometry	
	8 Hour	0.070 ppm (137 µg/m³)	Filotometry	0.070 ppm (137 μg/m³)	Filliary Standard	Priotometry	
Respirable Particulate	24 Hour	50 μg/m³	Gravimetric or	150 μg/m ³	Same as	Inertial Separation and Gravimetric	
Matter (PM10)9	Annual Arithmetic Mean	20 μg/m ³	Beta Attenuation	2 <u></u> -41	Primary Standard	Analysis	
Fine Particulate	24 Hour	7 <u>-2</u>	=	35 μg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
Matter (PM2.5) ⁹	Annual Arithmetic Mean	12 μg/m³	Gravimetric or Beta Attenuation	12.0 μg/m ³	15 μg/m ³		
Carban	1 Hour	20 ppm (23 mg/m ³)		35 ppm (40 mg/m ³)		Non-Dispersive Infrared Photometry (NDIR)	
Carbon Monoxide (CO)	8 Hour	9.0 ppm (10 mg/m ³)	Non-Dispersive Infrared Photometry	9 ppm (10 mg/m ³)			
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)	(NDIR)	2 <u>3—33</u>	<u> </u>		
Nitrogen	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase	100 ppb (188 μg/m³)	-	Gas Phase	
Dioxide (NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 μg/m³)	Chemiluminescence	0.053 ppm (100 μg/m³)	Same as Primary Standard	Chemiluminescence	
	1 Hour	0.25 ppm (655 µg/m³)		75 ppb (196 μg/m³)	_		
Sulfur Dioxide	3 Hour	-	Ultraviolet	1	0.5 ppm (1300 µg/m³)	Ultraviolet Flourescence; Spectrophotometry	
(SO ₂) ¹¹	24 Hour	0.04 ppm (105 µg/m³)	Fluorescence	0.14 ppm (for certain areas) ¹¹	<u>(60.45)</u>	(Pararosaniline Method)	
8	Annual Arithmetic Mean	_		0.030 ppm (for certain areas) ¹¹	_		
	30 Day Average	1.5 µg/m ³	Ů	-	_	6	
Lead ^{12,13}	Calendar Quarter	-	Atomic Absorption	1.5 µg/m ³ (for certain areas) ¹²	Same as	High Volume Sampler and Atomic Absorption	
	Rolling 3-Month Average	()		0.15 μg/m ³	Primary Standard		
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No			
Sulfates	24 Hour	25 μg/m³	Ion Chromatography	National Standards			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 μg/m³)	Ultraviolet Fluorescence				
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography				

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TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)

- California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and
 particulate matter (PM10, PM2.5, 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 ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone 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 PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 μg/m³ is equal to or less than one. For PM2.5, 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. Contact the U.S. EPA for further clarification and current national policies.
- 3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of
 the air quality standard may be used.
- 5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
- 8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- 9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 μg/m³ to 12.0 μg/m³. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 μg/m³, as was the annual secondary standard of 15 μg/m³. The existing 24-hour PM10 standards (primary and secondary) of 150 μg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- 10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- 11. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
 - Note that 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.
- 12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- 13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- 14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O_3 , particulate matter (PM $_{10}$ and PM $_{2.5}$), NO $_2$, and SO $_2$ which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (10). On February 21, 2019, CARB posted the 2018 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (11). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O ₃ – 1-hour standard	Nonattainment	-
O ₃ – 8-hour standard	Nonattainment	Nonattainment
PM ₁₀	Nonattainment	Attainment
PM _{2.5}	Nonattainment	Nonattainment
СО	Attainment	Unclassifiable/Attainment
NO ₂	Attainment	Unclassifiable/Attainment
SO ₂	Unclassifiable/Attainment	Unclassifiable/Attainment
Pb ¹	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB

2.7 LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRA]) throughout the district in order to provide Southern California residents about the air quality conditions. The Project site is located within the Temescal Valley area (SRA 26). The SCAQMD Temecula Valley monitoring station, located 6.98 miles northeast of the Project site, is the nearest long-term air quality monitoring station for O₃. The Temecula Valley monitoring station does not include data for CO, NO₂, PM₁₀, and PM_{2.5}. As such, the next nearest monitoring stations will be used. The Elsinore Valley monitoring station, located in SRA 25, is the next nearest monitoring station for CO, NO₂, and PM₁₀ is located approximately 11.17 miles northwest of the Project site. The Saddleback Valley monitoring station is located within SRA 19, roughly 27.57 miles northwest of the Project site, and is the nearest station that monitors PM_{2.5}. It should be noted that the Elsinore Valley and Saddleback Valley monitoring stations were utilized in lieu of the Temecula Valley monitoring station only in instances where data was not available.



[&]quot;-" = The national 1-hour O₃ standard was revoked effective June 15, 2005.

 $^{^{}m 1}$ The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project site. Data for O_3 , CO, NO_2 , PM_{10} , and $PM_{2.5}$ for 2016 through 2018 was obtained from the SCAQMD Air Quality Data Tables (12). Additionally, data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2016-2018

Dallistant	Charada ad	Year					
Pollutant	Standard	2016	2017	2018			
O ₃							
Maximum Federal 1-Hour Concentration (ppm)		0.092	0.104	0.107			
Maximum Federal 8-Hour Concentration (ppm)		0.081	0.088	0.085			
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	0	0	0			
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	45	47	15			
со							
Maximum Federal 1-Hour Concentration	> 35 ppm	1.2	1.2	1.1			
Maximum Federal 8-Hour Concentration	> 20 ppm	0.6	0.8	0.8			
NO ₂							
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.051	0.049	0.041			
Annual Average		0.008	0.008	0.009			
PM ₁₀							
Maximum Federal 24-Hour Concentration (μg/m³)	> 150 μg/m³	99	133	104			
Annual Federal Arithmetic Mean (μg/m³)		21.4	22.5	22.4			
Number of Days Exceeding Federal 24-Hour Standard	> 150 μg/m ³	0	0	0			
Number of Days Exceeding State 24-Hour Standard	> 50 μg/m ³	4	9	9			
PM _{2.5}							
Maximum Federal 24-Hour Concentration (μg/m³)	> 35 μg/m ³	24.79	19.50	20.80			
Annual Federal Arithmetic Mean (μg/m³)	> 12 μg/m³	7.36	8.11	8.31			
Number of Days Exceeding Federal 24-Hour Standard	> 35 μg/m ³	0	0	0			

ppm = Parts Per Million

Source: Data for O_3 , CO, NO_2 , PM_{10} , and $PM_{2.5}$ was obtained from SCAQMD Air Quality Data Tables.



2.8 REGULATORY BACKGROUND

2.8.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O_3 , CO, NO_X , SO_2 , PM_{10} , and Pb (13). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (14). The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (15) (16). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O₃, NO₂, SO₂, PM₁₀, CO, PM_{2.5}, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O₃ and to adopt a NAAQS for PM_{2.5}. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X . NO_X is a collective term that includes all forms of NO_X which are emitted as byproducts of the combustion process.

2.8.2 CALIFORNIA REGULATIONS

CARB

CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO₄, visibility, hydrogen sulfide (H₂S), and vinyl chloride (C₂H₃Cl). However, at this time, H₂S and C₂H₃Cl are not measured at any monitoring stations in the SCAB



because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (17) (13).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Management Plans (AQMP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NO_X, CO and PM₁₀. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2019 California Green Building Code Standards that became effective January 1, 2020. Local jurisdictions are permitted to adopt more stringent requirements, as state law provides methods for local enhancements. CALGreen recognizes that many jurisdictions have developed existing construction waste and demolition ordinances and defers to them as the ruling guidance provided, they establish a minimum 65% diversion requirement. The code also provides exemptions for areas not served by construction waste and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel



consumption and decreases greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and became effective on January 1, 2020.

The 2019 Title 24 standards will result in less energy use, thereby reducing air pollutant emissions associated with energy consumption in the SCAB and across the State of California. For example, the 2019 Title 24 standards will require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, and update indoor and outdoor lighting requirements for nonresidential buildings.

The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7% less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will use about 53% less energy than homes built under the 2016 standards. Nonresidential buildings (such as the Project) will use approximately 30% less energy due to lighting upgrade requirements (18).

Because the Project will be constructed after January 1, 2019, the 2019 CALGreen standards are applicable to the Project and require, among other items (19):

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate
 visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors'
 entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces
 being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- Electric vehicle (EV) charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3).
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8)
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section
- 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling,



including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).

- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
 - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
 - O Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
 - O Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
 - O Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor portable water uses in landscaped areas. Nonresidential developments shall comply
 with a local water efficient landscape ordinance or the current California Department of Water
 Resources' Model Water Efficient (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 square feet (sf) or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included
 in the design and construction processes of the building project to verify that the building systems
 and components meet the owner's or owner representative's project requirements (5.410.2).

2.8.3 AQMP

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMP to meet the state and federal ambient air quality standards (18). AQMPs are updated regularly to reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy more effectively. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.10.



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3 PROJECT AIR QUALITY IMPACT

3.1 Introduction

The Project has been evaluated to determine if it will violate an air quality standard, contribute to an existing or projected air quality violation, or determine if it will result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine consistency with the applicable AQMP, exposure of sensitive receptors to substantial pollutant concentrations, and the impacts of odors. The significance of these potential impacts is described in the following section.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *CEQA Guidelines* (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 3-1 (19). The SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Regional Construction Threshold	Regional Operational Thresholds
NO _X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
SOx	150 lbs/day	150 lbs/day
СО	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day - Pounds Per Day

Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, April 2019



3.3 Models Employed To Analyze Air Quality

3.3.1 California Emissions Estimator Model (CalEEMod)

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

On October 17, 2017, the SCAQMD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NOx, SOx, CO, PM₁₀, and PM_{2.5}) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation (20). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendix 3.1.

3.3.1.1 LAND USES MODELED IN CALEEMOD

As previously stated, the total development is proposed to consist of 160 attached multifamily housing (mid-rise) DUs.

CalEEMod does not provide an extensive selection of land use subtype categories, land uses that most closely fit the Project will be utilized (21). For purposes of analysis, the following land uses were modeled:

- 60 DUs Apartments Low Rise²
- 340 Space Parking Lot
- 80.493 thousand square feet (TSF) of Other Asphalt Surfaces³

3.3.2 EMISSION FACTORS MODEL

On August 19, 2019, the EPA approved the 2017 version of the EMissions FACtor model (EMFAC) web database for use in SIP and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, vehicle miles traveled (VMT) from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by CARB to project changes in future emissions from on-road mobile sources (22). This AQIA utilizes summer, winter, and annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season.

Because the EMFAC2017 emission rates are associated with vehicle fuel types while CalEEMod vehicle emission factors are aggregated to include all fuel types for each individual vehicle class, the EMFAC2017 emission rates for different fuel types of a vehicle class are averaged by activity or by population and activity to derive CalEEMod emission factors. The equations applied to

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² The User's Guide defines Apartments Low Rise as apartment units located in rental buildings that have 1 to 2 levels. As the building or unit area has not been provided, the CalEEMod floor surface area of 160,000 sf will be used.

³ Per the User's Guide, Other Asphalt Surfaces are defined as asphalt areas not used as a parking lot. For purposes of analysis, the remaining 80,493 sf will be modeled as other asphalt surfaces.

obtain CalEEMod vehicle emission factors for each emission type are detailed in CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (23). EMFAC2017 emission rates utilized in this analysis can be found in Appendix 3.2 of this report.

3.4 CONSTRUCTION EMISSIONS

3.4.1 CONSTRUCTION ACTIVITIES

Construction activities associated with the Project will result in emissions of VOCs, NO_X , SO_X , CO, PM_{10} , and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

GRADING ACTIVITIES

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions". Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. Based on information provided by the Project Applicant, earthwork to include 59,300 cubic yards of import. For purposes of analysis, the import quantity will be modeled with the CalEEMod default hauling trip length of 20 miles.

CONSTRUCTION WORKER VEHICLE TRIPS

Construction emissions for construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information from CalEEMod defaults.

3.4.2 Construction Duration

Construction is expected to commence in May 2021 and will last through August 2022. The construction schedule utilized in the analysis, shown in Table 3-2, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.⁴ The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required

⁴ As shown in the CalEEMod User's Guide Version 2016.3.2, Section 4.3 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.



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per CEQA Guidelines (1). The duration of construction activity was based on the 2022 opening year.

TABLE 3-2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Site Preparation	05/01/2021	05/14/2021	10
Grading	05/15/2021	12/22/2021	158
Building Construction	12/23/2021	08/31/2022	180
Paving	08/04/2022	08/31/2022	20
Architectural Coating	08/04/2022	08/31/2022	20

Source: Construction activity based on the 2022 opening year.

3.4.3 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment was generally based on CalEEMod defaults. A detailed summary of construction equipment assumptions by phase is provided at Table 3-3.

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Phase Name	Equipment	Amount	Hours Per Day
Cita Duana wati an	Crawler Tractors	4	8
Site Preparation	Rubber Tired Dozers	3	8
	Crawler Tractors	3	8
	Excavators	1	8
Grading	Graders	1	8
	Rubber Tired Dozers	1	8
	Cranes	1	8
	Crawler Tractors	3	8
Building Construction	Forklifts	3	8
	Generator Sets	1	8
	Welders	1	8
	Pavers	2	8
Paving	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

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



3.4.4 Construction Emissions Summary

IMPACTS WITHOUT MITIGATION

CalEEMod calculates maximum daily emissions for summer and winter periods. The estimated maximum daily construction emissions without mitigation are summarized on Table 3-4. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction will not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant.

TABLE 3-4: OVERALL CONSTRUCTION EMISSIONS SUMMARY – WITHOUT MITIGATION

Versi	Emissions (lbs/day)					
Year	voc	NOx	со	SOx	PM ₁₀	PM _{2.5}
Summer						
2021	5.43	60.83	26.69	0.08	11.96	6.59
2022	59.17	48.03	44.42	0.11	5.24	2.72
		Winter				
2021	5.43	60.84	25.38	0.08	11.96	6.59
2022	59.16	48.01	42.84	0.11	5.24	2.72
Maximum Daily Emissions	59.17	60.84	44.42	0.11	11.96	6.59
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1.

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of VOCs, NO_X , SO_X , CO, PM_{10} , and $PM_{2.5}$. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions

3.5.1 AREA SOURCE EMISSIONS

ARCHITECTURAL COATINGS

Over a period of time the building that is part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using CalEEMod.



CONSUMER PRODUCTS

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

HEARTHS/FIREPLACES

The emissions associated with use of hearths/fireplaces were calculated based on assumptions provided in CalEEMod. The Project is required to comply with SCAQMD Rule 445, which prohibits the use of wood burning stoves and fireplaces in new development. To account for the requirements of this Rule, the unmitigated CalEEMod default estimates were adjusted to remove wood burning stoves and fireplaces. As the project is required to comply with SCAQMD Rule 445, the removal of wood burning stoves and fireplaces is not considered "mitigation" although it must be identified as such in CalEEMod in order to treat the case appropriately.

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

3.5.2 ENERGY SOURCE EMISSIONS

COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity is generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using CalEEMod.

TITLE 24 ENERGY EFFICIENCY STANDARDS

California's Energy Efficiency Standards for Residential and Nonresidential Buildings was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity. The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020. The CEC anticipates that nonresidential buildings will use approximately 30% less energy (24). The CalEEMod defaults for Title 24 – Electricity and Lighting Energy were reduced by 53% in order to reflect consistency with the 2019 Title 24 standard.



3.5.3 MOBILE SOURCE EMISSIONS

The Project related operational air quality emissions derive primarily from vehicle trips generated by the Project. Trip characteristics available from the *Jefferson Avenue Apartments Traffic Impact Analysis* (TIA) report were utilized in this analysis (25).

FUGITIVE DUST RELATED TO VEHICULAR TRAVEL

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of break and tire wear particulates. The emissions estimates for travel on paved roads were calculated using CalEEMod.

3.5.4 OPERATIONAL EMISSIONS SUMMARY

IMPACTS WITHOUT MITIGATION

As previously stated, CalEEMod calculates maximum daily emissions for summer and winter periods. As such, operational activities for summer and winter scenarios are presented in Table 3-5. Detailed construction model outputs are presented in Appendix 3.1. As indicated, Project operation-source emissions would not exceed the SCAQMD regional thresholds of significance for any criteria pollutants. Therefore, a less than significant impact is expected, and no mitigation is required.

TABLE 3-5: SUMMARY OF PEAK OPERATIONAL EMISSIONS

Operational Activities –			Emissions	(lbs/day)		
Summer Scenario	voc	NOx	со	SO _x	PM ₁₀	PM _{2.5}
Area Source	4.25	2.81	14.39	0.02	0.29	0.29
Energy Source	0.05	0.41	0.17	2.62E-03	0.03	0.03
Mobile Source	3.52	14.13	33.60	0.11	9.61	2.66
Total Maximum Daily Emissions	7.82	17.34	48.16	0.13	9.94	2.98
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO
Operational Activities –	Emissions (lbs/day)					
Winter Scenario	voc	NO _x	со	SO _x	PM ₁₀	PM _{2.5}
Area Source	4.25	2.81	14.39	0.02	0.29	0.29
Energy Source	0.05	0.41	0.17	2.62E-03	0.03	0.03
Mobile Source	3.16	14.64	29.04	0.10	9.61	2.66
Total Maximum Daily Emissions	7.46	17.85	43.60	0.12	9.93	2.98
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

Source: CalEEMod operational-source emissions are presented in Appendix 3.1.



3.6 LOCALIZED SIGNIFICANCE

3.6.1 BACKGROUND ON LOCALIZED SIGNIFICANCE THRESHOLD (LST) DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (*LST Methodology*) (26). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the NAAQS and/or CAAQS. Collectively, these are referred to as LSTs.

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4⁵. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (27).

3.6.2 Applicability of LSTs for the Project

For this Project, the appropriate SRA for the LST analysis is the SCAQMD Temecula Valley (SRA 26). LSTs apply to CO, NO_2 , PM_{10} , and $PM_{2.5}$. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size.

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- CalEEMod is utilized to determine the maximum daily on-site emissions that will occur during construction activity.
- The SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds and CalEEMod User's Guide Appendix A: Calculation Details for CalEEMod is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod (28) (23).
- If the total acreage disturbed is less than or equal to 5 acres per day, then the SCAQMD's screening
 look-up tables are utilized to determine if a Project has the potential to result in a significant
 impact. The look-up tables establish a maximum daily emissions threshold in lbs/day that can be
 compared to CalEEMod outputs.

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⁵The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

- If the total acreage disturbed is greater than 5 acres per day, then LST impacts are appropriately evaluated through dispersion modeling.
- The LST Methodology presents mass emission rates for each SRA, project sizes of 1, 2, and 5 acres, and nearest receptor distances of 25, 50, 100, 200, and 500 meters. For project sizes between the values given, or with receptors at distances between the given receptors, the methodology uses linear interpolation to determine the thresholds.

3.6.3 EMISSIONS CONSIDERED

SCAQMD's LST Methodology clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (26)." Therefore, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

3.6.4 MAXIMUM DAILY DISTURBED-ACREAGE

As a conservative measure, it is assumed that a maximum of 5 acres per day can be actively disturbed during site preparation and grading activities. As such, the "Total Acres Graded" field in CalEEMod has been revised to 50 acres for site preparation and 790 acres for grading activities.

3.6.5 Sensitive Receptors

As previously stated, LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities.

RESIDENTIAL RECEPTORS

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, individuals with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. Structures that house these persons or places where they gather to exercise are defined as "sensitive receptors". These structures typically include residences, hotels, hospitals, etc. as they are also known to be locations where an individual can remain for 24 hours. Consistent with the *LST Methodology*, the nearest land use where an individual could remain for 24 hours to the Project site (in this case the nearest residential land use) has been used to determine construction and operational air quality impacts for emissions of PM₁₀ and PM_{2.5}, since PM₁₀ and PM_{2.5} thresholds are based on a 24 hour averaging time.

NON-RESIDENTIAL RECEPTORS

As per the LST Methodology, commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for 8 hours or less. The LST Methodology explicitly states that "LSTs based on shorter averaging periods, such as the NO₂ and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours (26)." For purposes of analysis, if



an industrial/commercial use is located at a closer distance to the Project site than the nearest residential use, the nearest industrial/commercial use will be utilized to determine construction and operational LST air impacts for emissions of NO_2 and CO an individual could be present at these sites for periods of 1 to 8 hours.

PROJECT-RELATED SENSITIVE RECEPTORS

The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual and cumulatively significant impact. The nearest land use where an individual could remain for 24 hours to the Project site (in this case the nearest residential land use) has been used to determine localized construction and operational air quality impacts for emissions of PM₁₀ and PM_{2.5} (since PM₁₀ and PM_{2.5} thresholds are based on a 24 hour averaging time). As shown on Exhibit 3-A, the nearest receptor used for evaluation of localized impacts of PM₁₀ and PM_{2.5} is an existing residential community, represented by location R1. This residential community is located approximately 133 feet/41 meters west of the Project site. As such, the 41-meter distance will be used for evaluation of localized PM₁₀ and PM_{2.5} emission impacts.

As previously stated, and consistent with *LST Methodology*, the nearest industrial/commercial use to the Project site is used to determine construction and operational LST air impacts for emissions of NO_X and CO as the averaging periods for these pollutants are shorter (8 hours or less) and it is reasonable to assumed that an individual could be present at these sites for periods of one to 8 hours. Thus, the nearest receptor used for evaluation of localized impacts of NO_X and CO is represented by the Jefferson Pointe Professional Center, located 25 feet/8 meters northwest of the Project site. As shown in Exhibit 3-A, the Jefferson Pointe Professional Center is represented by location R2. It should be noted that the *LST Methodology* explicitly states that "It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the *LSTs* for receptors located at 25 meters (26)." As such a 25-meter receptor distance will be used for evaluation of localized NO_X and CO.



SITE

EXHIBIT 3-A: SENSITIVE RECEPTOR LOCATIONS



LEGEND:

Receptor Locations

■ Distance from receptor to Project site boundary (in feet)



3.7 CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

3.7.1 LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

Although the total acreage disturbed is more than 5 acres per day for site preparation and grading activities, the *LST Methodology* provides look-up tables for sites with an area with daily disturbance of 5 acres or less. For projects that exceed 5 acres, the 5-acre LST look-up tables can be used as a screening tool to determine which pollutants require additional detailed analysis. This approach is conservative as it assumes that all on-site emissions associated with the project would occur within a concentrated 5-acre area. This screening method would therefore overpredict potential localized impacts, because by assuming that on-site construction activities are occurring over a smaller area, the resulting concentrations of air pollutants are more highly concentrated once they reach the smaller site boundary than they would be for activities if they were spread out over a larger surface area. On a larger site, the same amount of air pollutants generated would disperse over a larger surface area and would result in a lower concentration once emissions reach the project-site boundary. As such, LSTs for a 5-acre site during construction are used as a screening tool to determine if further detailed analysis is required. The thresholds used in for the construction-source LST analysis are presented below in Table 3-6.

TABLE 3-6: MAXIMUM DAILY LOCALIZED CONSTRUCTION EMISSIONS THRESHOLDS

Pollutant	Construction Localized Thresholds
NOx	371 lbs/day
СО	1,965 lbs/day
PM ₁₀	29 lbs/day
PM _{2.5}	9 lbs/day

Source: Localized Thresholds presented in this table are based on the SCAQMD LST Methodology, July 2008

3.7.2 CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

IMPACTS WITHOUT MITIGATION

Table 3-7 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. As previously stated, the nearest receptor utilized to evaluate localized construction emissions of PM_{10} and $PM_{2.5}$, is the existing residential community 41 meters from the Project site. For evaluation of localized NO_X , and CO, the Jefferson Pointe Professional Center, the 25-meter distance will be used. Without mitigation, localized construction emissions would not exceed the applicable SCAQMD LSTs for emissions of any criterial pollutant. Outputs from the model runs for unmitigated construction LSTs are provided in Appendix 3.1.



TABLE 3-7: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION – WITHOUT MITIGATION

On Site Fasioniana	Emissions (lbs/day)			
On-Site Emissions	NOx	со	PM ₁₀	PM _{2.5}
Site Prepara	ntion			
Maximum Daily Emissions	60.79	21.85	11.76	6.53
SCAQMD Localized Threshold	371	1,965	29	9
Threshold Exceeded?	NO	NO	NO	NO
Grading	5			
Maximum Daily Emissions	39.95	16.38	6.05	3.00
SCAQMD Localized Threshold	371	1,965	29	9
Threshold Exceeded?	NO	NO	NO	NO

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1.

3.8 OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

The development of the proposed project is located on 9.18 acres. As previously stated, the total development is proposed to consist of 160 attached multifamily housing (mid-rise) DUs. According to SCAQMD *LST Methodology*, LSTs would apply to the operational phase of a proposed project, if the project includes stationary sources, or attracts mobile sources that may spend long periods queuing and idling at the site (e.g., transfer facilities and warehouse buildings). The proposed project does not include such uses, and thus, due to the lack of significant stationary source emissions, no long-term localized significance threshold analysis is needed.

3.9 CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific CO "hot spots" is not needed to reach this conclusion. An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur. At the time of the SCAQMD's CEQA Air Quality Handbook (1993) (1993 CEQA Handbook), the SCAB was designated nonattainment under the CAAQS and NAAQS for CO (29).

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak



morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 3-8.

TABLE 3-8: CO MODEL RESULTS

Internation Leasting	CO Concentrations (ppm)				
Intersection Location	Morning 1-hour	Afternoon 1-hour	8-hour		
Wilshire Boulevard/Veteran Avenue	4.6	3.5	3.7		
Sunset Boulevard/Highland Avenue	4	4.5	3.5		
La Cienega Boulevard/Century Boulevard	3.7	3.1	5.2		
Long Beach Boulevard/Imperial Highway	3	3.1	8.4		

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations

Note: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP) and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak CO concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 9.3 ppm 8-hour CO concentration measured at the Long Beach Boulevard and Imperial Highway intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 8.6 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (30). In contrast, the ambient 8-hour CO concentration within the Project study area is estimated at 1.4 ppm—1.6 ppm. Therefore, even if the traffic volumes for the Project were double or even triple of the traffic volumes generated at the Long Beach Boulevard and Imperial Highway intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (31). Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 3-9. The busiest intersection evaluated was that at Wilshire Blvd and Veteran Ave., which has a daily traffic volume of approximately 100,000 vph and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (32). The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm)⁶. As shown in TIA on Exhibit 6-1, EAPC (2021) Traffic Volumes ⁷, the highest trips on a segment of is 32,400

⁷ EAPC = Existing Plus Ambient Growth Plus Project Plus Cumulative





 $^{^{6}}$ Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm)

vph on Jefferson Avenue and Murrieta Hot Springs Road (25). As such, the Project would generate less daily and therefore less CO concentrations than the busiest intersection analyzed in the 2003 AQMP.

TABLE 3-9: TRAFFIC VOLUMES

	Peak Traffic Volumes (vph)					
Intersection Location	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)	
Wilshire Boulevard/Veteran Avenue	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719	
Sunset Boulevard/Highland Avenue	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374	
La Cienega Boulevard/Century Boulevard	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674	
Long Beach Boulevard/Imperial Highway	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514	

Source: 2003 AQMP

Additionally, based on the 2003 AQMP, the busiest intersection for PM traffic volumes was at La Cienega Boulevard and Century Boulevard, which has a PM traffic volume of 8,674 vph (32). As summarized on Table 3-10, the intersection of Jefferson Avenue and Murrieta Hot Springs Road would generate the highest AM/PM traffic volumes of 2,461 vph and 3,480 vph, respectively. As such, Project-related traffic volumes are less than the traffic volumes identified in the 2003 AQMP. The Project considered herein would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO "hot spots" are not an environmental impact of concern for the Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

TABLE 3-10: EAPC (2021) TRAFFIC VOLUMES

	Peak Traffic Volumes (vph)					
Intersection Location	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)	
Jefferson Avenue/Driveway 1	428/1,388	878/580	0/0	9/5	1,315/1,973	
Jefferson Avenue/Driveway 2	425/1,402	878/580	0/0	49/28	1,352/2,010	
Jefferson Avenue/Murrieta Hot Springs Road	486/2,225	918/591	40/81	1,016/582	2,461/3,480	

Source: Jefferson Avenue Apartments Traffic Impact Analysis (Urban Crossroads, Inc., 2020)

3.10 AQMP

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the Southern California Association of Governments (SCAG), county transportation commissions, local governments, as well as state



and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly to reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy more effectively.

In March 2017, the SCAQMD released the *Final 2016 AQMP* (2016 AQMP). The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (33). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016-2040 RTP/SCS), a planning document that supports the integration of land use and transportation to help the region meet the federal Clean Air Act requirements (18). The Project's consistency with the AQMP will be determined using the 2016 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the 1993 CEQA Handbook (34). These indicators are discussed below:

3.10.1 Consistency Criterion No. 1

The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

Construction Impacts - Consistency Criterion 1

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if LSTs or regional significance thresholds were exceeded. As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

Operational Impacts - Consistency Criterion 1

As evaluated, the Project's regional and localized operational-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

On the basis of the preceding discussion, the Project is determined to be consistent with the first criterion.



3.10.2 Consistency Criterion No. 2

The Project will not exceed the assumptions in the AQMP based on the years of Project buildout phase.

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Murrieta General Plan is considered to be consistent with the AQMP.

Construction Impacts – Consistency Criterion 2

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities.

Operational Impacts - Consistency Criterion 2

The City of Murrieta General Plan designates the Project site as MFR. The MFR designation provides for attached and detached apartments and condominiums. Typical development consists of townhomes, condominiums, apartments, senior housing, and stacked flats. MFR encourages the development of integrated projects that provide complementary open spaces and amenities on-site (4). As previously stated, the total development is proposed to consist of 160 multifamily (mid-rise) DUs. The uses proposed by the Project are consistent with the City's land use designation. Additionally, the Project's construction and operational-source air pollutant emissions would not exceed the regional or localized significance thresholds.

On the basis of the preceding discussion, the Project is determined to be consistent with the second criterion.

AQMP CONSISTENCY CONCLUSION

The Project would not result in or cause NAAQS or CAAQS violations. The proposed Project is consistent with the land use and growth intensities reflected in the adopted General Plan. Furthermore, the Project would not exceed any applicable regional or local thresholds. As such, the Project is therefore considered to be consistent with the AQMP.

3.11 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long-term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, childcare centers, and athletic facilities can also be considered as sensitive receptors.



Results of the LST analysis indicate that the Project will not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial criteria pollutant concentrations during Project construction.

Results of the LST analysis indicate that the Project will not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO "hotspot." Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

3.12 ODORS

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (35).

3.13 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project region as nonattainment for O_3 PM₁₀, and PM_{2.5} while the NAAQS designates the Project region as nonattainment for O_3 and PM_{2.5}.



The AQMD has published a report on how to address cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (36). In this report the AQMD clearly states (Page D-3):

"...the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or Environmental Impact Report (EIR). The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facilitywide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

CONSTRUCTION IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

OPERATIONAL IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project operational-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project operational-source emissions would be considered less than significant on a project-specific and cumulative basis.



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5 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Jefferson Avenue Apartments. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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

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PROFESSIONAL CERTIFICATIONS

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



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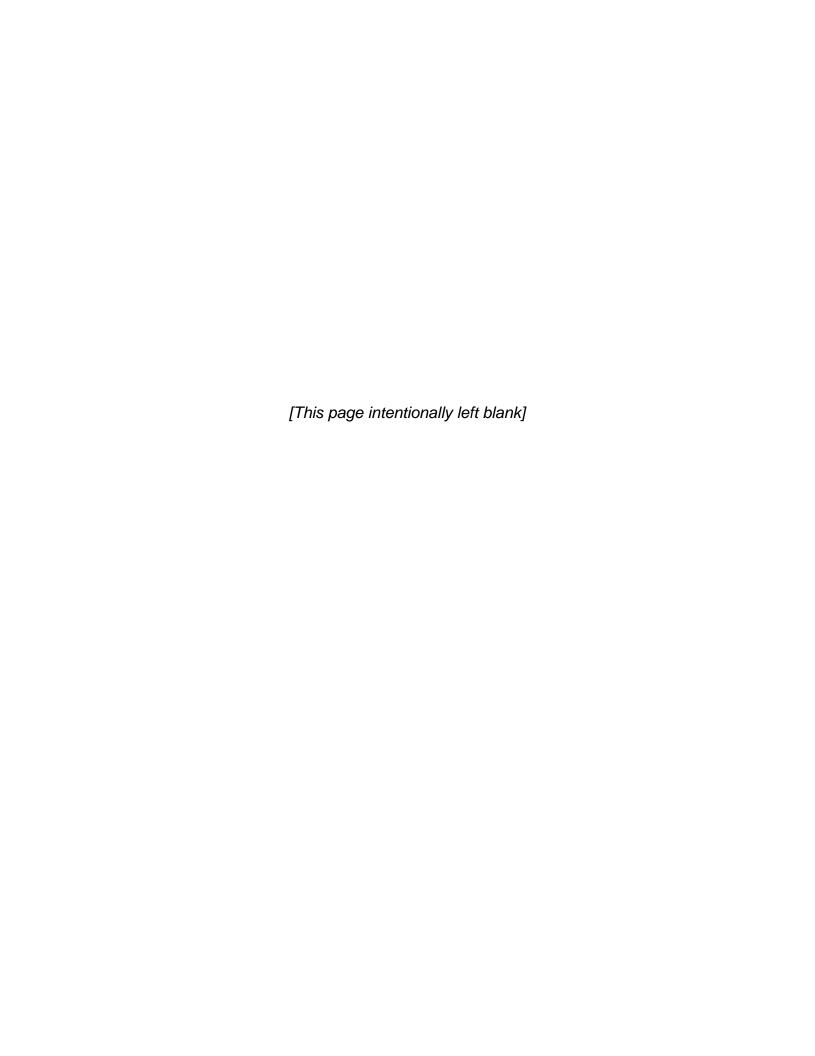
APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS



APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS



APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

Ambient Air Quality Standards (Updated 5/4/16)									
Pollutant	Averaging Time	California Standards		National Standards ²					
		Concentration ³	Method ⁴	Primary 3,5	Secondary 3.6	Method 7			
Ozone (O₃)³	1 Hour	0.09 ppm (180 μg/m³)	Ultraviolet Photometry	I	Same as Primary Standard	Ultraviolet Photometry			
	8 Hour	0.070 ppm (137 μg/m²)	Olitaviolet i flotoffett y	0.070 ppm (137 μg/m³)					
Respirable Particulate Matter (PM10)°	24 Hour	50 μg/m³	Gravimetric or Beta	150 μg/m³	Standard and Gravii	Inertial Separation and Gravimetric			
	Annual Arithmetic Mean	20 μg/m³	Attenuation	_		Analysis			
Fine Particulate	24 Hour	I	_	35 μg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis			
Matter (PM2.5) ⁹	Annual Arithmetic Mean	12 μg/m³	Gravimetric or Beta Attenuation	12.0 μg/m³	15 μg/m³				
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive	35 ppm (40 mg/m³)	_	Non-Dispersive Infrared Photometry (NDIR)			
	8 Hour	9.0 ppm (10 mg/m²)	Infrared Photometry (NDIR)	9 ppm (10 mg/m³)	_				
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m²)	(NOIIV)	1	_				
Nitrogen Dioxide (NO ₂) ¹⁰	1 Hour	0.18 ppm (339 μg/m³)	Gas Phase	100 ppb (188 µg/m³)	_	Gas Phase Chemiluminescence			
	Annual Arithmetic Mean	0.030 ppm (57 μg/m²)	Chemiluminescence	0.053 ppm (100 μg/m²)	Same as Primary Standard				
Sulfur Dioxide (SO ₂)"	1 Hour	0.25 ppm (655 μg/m³)		75 ppb (196 μg/m²)	_	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)			
	3 Hour	1	Ultraviolet		0.5 ppm (1300 μg/m³)				
	24 Hour	0.04 ppm (105 μg/m³)	Fluorescence	0.14 ppm (for certain areas) ¹¹	_				
	Annual Arithmetic Mean	1		0.030 ppm (for certain areas)11	_	iou,			
Lead 12,13	30 Day Average	1.5 μg/m³		_	_	High Volume Sampler and Atomic Absorption			
	Calendar Quarter	_	Atomic Absorption	1.5 μg/m³ (for certain areas)¹²	Same as Primary				
	Rolling 3-Month Average	ı		0.15 μg/m³	Standard				
Visibility Reducing Particles ⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No					
Sulfates	24 Hour	25 μg/m²	lon Chromatography	National National					
Hydrogen Sulfide	1 Hour	0.03 ppm (42 μg/m²)	Ultraviolet Fluorescence	Standards					
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 μg/m²)	Gas Chromatography						
See footnotes	See footnotes on next page								

- California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, 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 ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone 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 PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For PM2.5, 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. Contact the U.S. EPA for further clarification and current national policies.
- 3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- 4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.
- 5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- 6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- 7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
- 8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- 9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 μ g/m³ to 12.0 μ g/m³. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 μ g/m³, as was the annual secondary standard of 15 μ g/m³. The existing 24-hour PM10 standards (primary and secondary) of 150 μ g/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- 10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- 11. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
 - Note that 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.
- 12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- 13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 μg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- 14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment A
Nonattainment N
Nonattainment-Transitional NA-T
Unclassified U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.



TABLE 1

California Ambient Air Quality Standards Area Designations for Ozone (1)

	N	NA-T	U	Α		N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN					NORTHEAST PLATEAU AIR BASIN				Χ
Alpine County			Χ		SACRAMENTO VALLEY AIR BASIN				
Inyo County	Χ				Colusa and Glenn Counties				Χ
Mono County	Χ				Sutter/Yuba Counties				
LAKE COUNTY AIR BASIN				Χ	Sutter Buttes	Χ			
LAKE TAHOE AIR BASIN				Χ	Remainder of Sutter County				Χ
MOJAVE DESERT AIR BASIN	Χ				Yuba County				Χ
MOUNTAIN COUNTIES AIR BASIN					Yolo/Solano Counties		X		
Amador County	Χ				Remainder of Air Basin	Χ			
Calaveras County	Χ				SALTON SEA AIR BASIN	Χ			
El Dorado County (portion)	Χ				SAN DIEGO AIR BASIN	Χ			
Mariposa County	Χ				SAN FRANCISCO BAY AREA AIR BASIN	Χ			
Nevada County	Х				SAN JOAQUIN VALLEY AIR BASIN	Χ			
Placer County (portion)	Χ				SOUTH CENTRAL COAST AIR BASIN				
Plumas County			Χ		San Luis Obispo County	Χ			
Sierra County			Χ		Santa Barbara County		Х		
Tuolumne County	Х				Ventura County	Χ			
NORTH CENTRAL COAST AIR BASIN		Х			SOUTH COAST AIR BASIN	Χ			
NORTH COAST AIR BASIN				Х					

⁽¹⁾ AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

2018
Area Designations for State
Ambient Air Quality Standards
PM10



California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM10)

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN	Х			NORTH CENTRAL COAST AIR BASIN	Х		
LAKE COUNTY AIR BASIN			Χ	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	Х			Del Norte, Sonoma (portion) and Trinity Counties			Х
MOJAVE DESERT AIR BASIN	Х			Remainder of Air Basin	Х		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		Х		Siskiyou County			Х
Calaveras County	Х			Remainder of Air Basin		Χ	
El Dorado County (portion)	Х			SACRAMENTO VALLEY AIR BASIN			
Mariposa County				Shasta County			Х
- Yosemite National Park	Х			Remainder of Air Basin	Х		
- Remainder of County		Χ		SALTON SEA AIR BASIN	Х		
Nevada County	Х			SAN DIEGO AIR BASIN	Х		
Placer County (portion)	Х			SAN FRANCISCO BAY AREA AIR BASIN	Х		
Plumas County	Х			SAN JOAQUIN VALLEY AIR BASIN	Х		
Sierra County	X			SOUTH CENTRAL COAST AIR BASIN	Х		
Tuolumne County		Х		SOUTH COAST AIR BASIN	Х		



California Ambient Air Quality Standards Area Designations for Fine Particulate Matter (PM2.5)

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN			Χ	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			Χ	Imperial County			
LAKE TAHOE AIR BASIN			Χ	- City of Calexico (3)	Χ		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			Χ
San Bernardino County				SAN DIEGO AIR BASIN	Χ		
- County portion of federal Southeast			x	SAN FRANCISCO BAY AREA AIR BASIN	Χ		
Desert Modified AQMA for Ozone (1)			^	SAN JOAQUIN VALLEY AIR BASIN	Χ		
Remainder of Air Basin		Х		SOUTH CENTRAL COAST AIR BASIN			
MOUNTAIN COUNTIES AIR BASIN				San Luis Obispo County			Χ
Plumas County				Santa Barbara County		Χ	
- Portola Valley (2)	Х			Ventura County			Χ
Remainder of Air Basin		Χ		SOUTH COAST AIR BASIN	Χ		
NORTH CENTRAL COAST AIR BASIN			Χ				
NORTH COAST AIR BASIN			Χ				
NORTHEAST PLATEAU AIR BASIN			Χ				
SACRAMENTO VALLEY AIR BASIN							
Butte County	Х						
Colusa County			Χ				
Glenn County			Χ				
Placer County (portion)			Χ				
Sacramento County			Χ				
Shasta County			Х				
Sutter and Yuba Counties			Χ				
Remainder of Air Basin		Χ					

⁽¹⁾ California Code of Regulations, title 17, section 60200(b)

⁽²⁾ California Code of Regulations, title 17, section 60200(c)

⁽³⁾ California Code of Regulations, title 17, section 60200(a)

2018
Area Designations for State
Ambient Air Quality Standards
CARBON MONOXIDE



California Ambient Air Quality Standards Area Designation for Carbon Monoxide*

	N	NA-T	U	Α		N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			Х		Butte County				Χ
Inyo County				Χ	Colusa County			Χ	
Mono County				Χ	Glenn County			Χ	
LAKE COUNTY AIR BASIN				Χ	Placer County (portion)				Χ
LAKE TAHOE AIR BASIN				Χ	Sacramento County				Χ
MOJAVE DESERT AIR BASIN					Shasta County			Х	
Kern County (portion)			Χ		Solano County (portion)				Χ
Los Angeles County (portion)				Χ	Sutter County				Χ
Riverside County (portion)			Х		Tehama County			Χ	
San Bernardino County (portion)				Χ	Yolo County				Χ
MOUNTAIN COUNTIES AIR BASIN					Yuba County			Χ	
Amador County			Х		SALTON SEA AIR BASIN				Χ
Calaveras County			Χ		SAN DIEGO AIR BASIN				Χ
El Dorado County (portion)			Χ		SAN FRANCISCO BAY AREA AIR BASIN				Χ
Mariposa County			Χ		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			Х		Fresno County				Χ
Placer County (portion)			Χ		Kern County (portion)				Χ
Plumas County				Χ	Kings County			Χ	
Sierra County			Χ		Madera County			Χ	
Tuolumne County				Χ	Merced County			Χ	
NORTH CENTRAL COAST AIR BASIN		,			San Joaquin County				Χ
Monterey County				Χ	Stanislaus County				Χ
San Benito County			Χ		Tulare County				Χ
Santa Cruz County			Χ		SOUTH CENTRAL COAST AIR BASIN				Χ
NORTH COAST AIR BASIN		,			SOUTH COAST AIR BASIN				Χ
Del Norte County			Χ						
Humboldt County				Χ					
Mendocino County				Χ					
Sonoma County (portion)			Х						
Trinity County			Х						
NORTHEAST PLATEAU AIR BASIN			Χ						

^{*} The area designated for carbon monoxide is a county or portion of a county

2018
Area Designations for State
Ambient Air Quality Standards
NITROGEN DIOXIDE



California Ambient Air Quality Standards Area Designation for Nitrogen Dioxide

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN			Χ	SACRAMENTO VALLEY AIR BASIN			Χ
LAKE COUNTY AIR BASIN			Χ	SALTON SEA AIR BASIN			Х
LAKE TAHOE AIR BASIN			Χ	SAN DIEGO AIR BASIN			Χ
MOJAVE DESERT AIR BASIN			Χ	SAN FRANCISCO BAY AREA AIR BASIN			Χ
MOUNTAIN COUNTIES AIR BASIN			Χ	SAN JOAQUIN VALLEY AIR BASIN			Χ
NORTH CENTRAL COAST AIR BASIN			Χ	SOUTH CENTRAL COAST AIR BASIN			Χ
NORTH COAST AIR BASIN			Χ	SOUTH COAST AIR BASIN			
NORTHEAST PLATEAU AIR BASIN			Х	CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	Х		
				Remainder of Air Basin			Х



California Ambient Air Quality Standards Area Designation for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SACRAMENTO VALLEY AIR BASIN		Х
LAKE COUNTY AIR BASIN		Х	SALTON SEA AIR BASIN		Х
LAKE TAHOE AIR BASIN		Х	SAN DIEGO AIR BASIN		Х
MOJAVE DESERT AIR BASIN		Х	SAN FRANCISCO BAY AREA AIR BASIN		Х
MOUNTAIN COUNTIES AIR BASIN		Х	SAN JOAQUIN VALLEY AIR BASIN		Х
NORTH CENTRAL COAST AIR BASIN		Х	SOUTH CENTRAL COAST AIR BASIN		Х
NORTH COAST AIR BASIN		Х	SOUTH COAST AIR BASIN		Х
NORTHEAST PLATEAU AIR BASIN		Х			

^{*} The area designated for sulfur dioxide is a county or portion of a county



California Ambient Air Quality Standards Area Designation for Sulfates

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN			Χ	SACRAMENTO VALLEY AIR BASIN			Х
LAKE COUNTY AIR BASIN			Χ	SALTON SEA AIR BASIN			Х
LAKE TAHOE AIR BASIN			Χ	SAN DIEGO AIR BASIN			Χ
MOJAVE DESERT AIR BASIN			Χ	SAN FRANCISCO BAY AREA AIR BASIN			Х
MOUNTAIN COUNTIES AIR BASIN			Χ	SAN JOAQUIN VALLEY AIR BASIN			Χ
NORTH CENTRAL COAST AIR BASIN			Χ	SOUTH CENTRAL COAST AIR BASIN			Х
NORTH COAST AIR BASIN		·	Χ	SOUTH COAST AIR BASIN		·	Х
NORTHEAST PLATEAU AIR BASIN			Χ				

2018
Area Designations for State
Ambient Air Quality Standards
LEAD



TABLE 8

California Ambient Air Quality Standards Area Designations for Lead (particulate)*

	N	U	Α		N	υ	Α
GREAT BASIN VALLEYS AIR BASIN			Χ	SALTON SEA AIR BASIN			Х
LAKE COUNTY AIR BASIN			Χ	SAN DIEGO AIR BASIN			Х
LAKE TAHOE AIR BASIN			Χ	SAN FRANCISCO BAY AREA AIR BASIN			Х
MOJAVE DESERT AIR BASIN			Χ	SAN JOAQUIN VALLEY AIR BASIN			Х
MOUNTAIN COUNTIES AIR BASIN			Χ	SOUTH CENTRAL COAST AIR BASIN			Х
NORTH CENTRAL COAST AIR BASIN			Χ	SOUTH COAST AIR BASIN			Х
NORTH COAST AIR BASIN			Χ				
NORTHEAST PLATEAU AIR BASIN			Х				
SACRAMENTO VALLEY AIR BASIN			Х				

^{*} The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

2018
Area Designations for State
Ambient Air Quality Standards
HYDROGEN SULFIDE



TABLE 9

California Ambient Air Quality Standards Area Designation for Hydrogen Sulfide*

	N	NA-T	U	Α		N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			Х	
Alpine County			Χ		NORTH COAST AIR BASIN				
Inyo County				Χ	Del Norte County			Х	
Mono County				Χ	Humboldt County				Х
LAKE COUNTY AIR BASIN				Χ	Mendocino County			Χ	
LAKE TAHOE AIR BASIN			Χ		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				Χ
Kern County (portion)			Χ		- Remainder of County			Χ	
Los Angeles County (portion)			Χ		Trinity County			Х	
Riverside County (portion)			Χ		NORTHEAST PLATEAU AIR BASIN			Х	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			Х	
- Searles Valley Planning Area (1)	Х				SALTON SEA AIR BASIN			Х	
- Remainder of County			Χ		SAN DIEGO AIR BASIN			Х	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			Х	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			Х	
- City of Sutter Creek	Х				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			Χ		San Luis Obispo County				Х
Calaveras County			Χ		Santa Barbara County				Х
El Dorado County (portion)			Χ		Ventura County			Х	
Mariposa County			Χ		SOUTH COAST AIR BASIN			Χ	
Nevada County			Х						
Placer County (portion)			Χ						
Plumas County			Χ						
Sierra County			Χ						
Tuolumne County			Χ						

^{*} The area designated for hydrogen sulfide is a county or portion of a county

^{(1) 52} Federal Register 29384 (August 7, 1987)

⁽²⁾ California Code of Regulations, title 17, section 60200(d)

2018
Area Designations for State
Ambient Air Quality Standards
VISIBILITY REDUCING PARTICLES



California Ambient Air Quality Standards Area Designation for Visibility Reducing Particles

	N	NA-T	U	Α		N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN			Χ		SACRAMENTO VALLEY AIR BASIN			Х	
LAKE COUNTY AIR BASIN				Х	SALTON SEA AIR BASIN			Х	
LAKE TAHOE AIR BASIN			Х		SAN DIEGO AIR BASIN			Х	
MOJAVE DESERT AIR BASIN			Х		SAN FRANCISCO BAY AREA AIR BASIN			Х	
MOUNTAIN COUNTIES AIR BASIN			Х		SAN JOAQUIN VALLEY AIR BASIN			Х	
NORTH CENTRAL COAST AIR BASIN			Х		SOUTH CENTRAL COAST AIR BASIN			Х	
NORTH COAST AIR BASIN			Х		SOUTH COAST AIR BASIN			Х	
NORTHEAST PLATEAU AIR BASIN			Х						

Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

https://www.epa.gov/green-book

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

https://www.epa.gov/criteria-air-pollutants

Designation Categories

Suspended Particulate Matter (PM_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10} :

- Attainment
- Nonattainment
- Unclassifiable

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment
- Unclassifiable/Attainment

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Original designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary PM_{2.5} standard of 12.0 μ g/m³. New area designations reflecting this revised standard became final in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 μ g/m³ as well as the 24-hour standard of 35 μ g/m³, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO₂ standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO₂ standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO₂). The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment,
- Unclassifiable, and
- Attainment/Unclassifiable.

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO₂ standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual

average standards. Area designations for the 1-hour SO₂ standard were finalized on December 21, 2017 and are reflected in the area designations map.

Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 $\mu g/m^3$. Designations were made for this standard in November 2010.

Designation Areas

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

https://ecfr.io/Title-40/se40.20.81_1305



National Ambient Air Quality Standards Area Designations for 8-Hour Ozone*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		Х	Yolo County (2)	Х	
LAKE TAHOE AIR BASIN		Х	Yuba County		Х
MOUNTAIN COUNTIES AIR BASIN		1	SAN DIEGO COUNTY	Χ	
Amador County	Х		SAN FRANCISCO BAY AREA AIR BASIN	Х	
Calaveras County	Х		SAN JOAQUIN VALLEY AIR BASIN	Χ	
El Dorado County (portion) (2)	Х		SOUTH CENTRAL COAST AIR BASIN (1)		
Mariposa County	Х		San Luis Obispo County		
Nevada County			- Eastern San Luis Obispo County	Х	
- Western Nevada County	Х		- Remainder of County		Х
- Remainder of County		Х	Santa Barbara County		Х
Placer County (portion) (2)	Х		Ventura County		
Plumas County		Х	- Area excluding Anacapa and San Nicolas Islands	Х	
Sierra County		Х	- Channel Islands (1)		Х
Tuolumne County	Х		SOUTH COAST AIR BASIN (1)	Х	
NORTH CENTRAL COAST AIR BASIN		Х	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		Х	Kern County (portion)	Χ	
NORTHEAST PLATEAU AIR BASIN		Х	- Indian Wells Valley		Х
SACRAMENTO VALLEY AIR BASIN			Imperial County	Χ	
Butte County	Х		Los Angeles County (portion)	Χ	
Colusa County		Х	Riverside County (portion)		
Glenn County		Х	- Coachella Valley	Х	
Sacramento Metro Area (2)	Х		- Non-AQMA portion		Х
Shasta County		Х	San Bernardino County		
Sutter County			- Western portion (AQMA)	Χ	
- Sutter Buttes	Х		- Eastern portion (non-AQMA)		Х
- Southern portion of Sutter County (2)	Х				
- Remainder of Sutter County		Х			
Tehama County					
- Tuscan Buttes	Х				
- Remainder of Tehama County		Х			

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2015 8-hour ozone standard of 0.070 ppm.

(1) South Central Coast Air Basin Channel Islands:

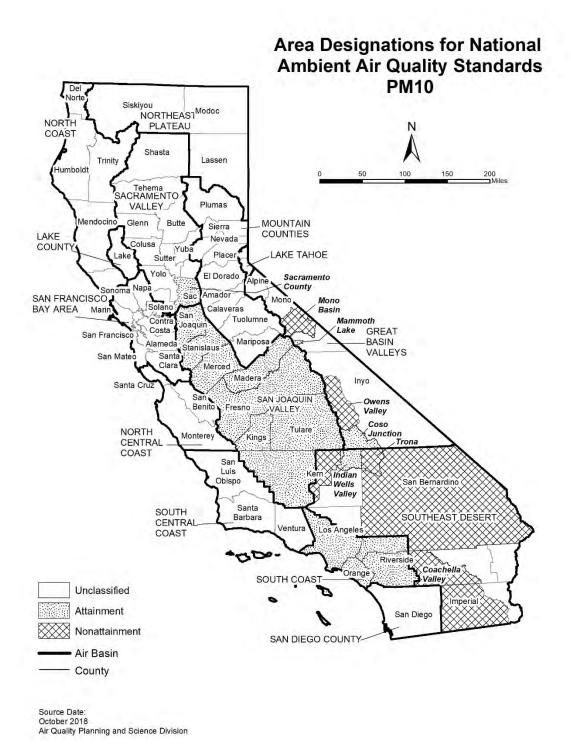
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:

Los Angeles County includes San Clemente and Santa Catalina Islands.

(2) For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.



National Ambient Air Quality Standards Area Designations for Suspended Particulate Matter (PM10)*

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN		•		SAN DIEGO COUNTY		Х	
Alpine County		Х		SAN FRANCISCO BAY AREA AIR BASIN		Χ	
Inyo County		•		SAN JOAQUIN VALLEY AIR BASIN			Х
- Owens Valley Planning Area	Х			SOUTH CENTRAL COAST AIR BASIN		Х	
- Coso Junction			Х	SOUTH COAST AIR BASIN			Х
- Remainder of County		Х		SOUTHEAST DESERT AIR BASIN			
Mono County				Eastern Kern County			
- Mammoth Lake Planning Area			Х	- Indian Wells Valley			Х
- Mono Lake Basin	Х			- Portion within San Joaquin Valley Planning Area	Х		
- Remainder of County		Х		- Remainder of County		Χ	
LAKE COUNTY AIR BASIN		Х		Imperial County			
LAKE TAHOE AIR BASIN		Х		- Imperial Valley Planning Area	Х		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		X	
Placer County (portion) (2)		Х		Los Angeles County (portion)		X	
Remainder of Air Basin		Х		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		Х		- Coachella Valley (3)	Х		
NORTH COAST AIR BASIN		Х		- Non-AQMA portion		Χ	
NORTHEAST PLATEAU AIR BASIN		Х		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	Х		
Butte County		Х		- Remainder of County	Х		
Colusa County		Х					
Glenn County		Х					
Placer County (portion) (2)		Х					
Sacramento County (1)			Х				
Shasta County		Х					
Solano County (portion)		Х					
Sutter County		Х					
Tehama County		Х					
Yolo County		Х					
Yuba County		Х					

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

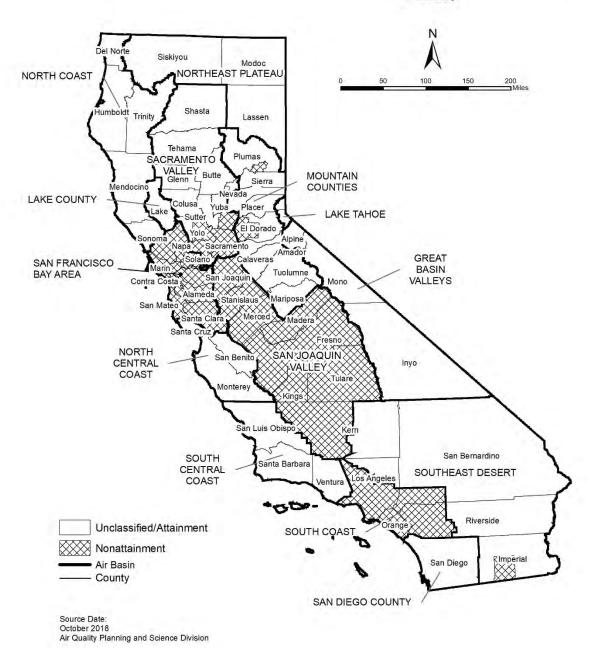
(1) Air quality in Sacramento County meets the national PM10 standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties

Air Basin.

⁽³⁾ Air quality in Coachella Valley meets the national PM10 standards. A request for redesignation to attainment has been submitted to U.S. EPA.

Area Designations for National Ambient Air Quality Standards PM2.5



National Ambient Air Quality Standards Area Designations for Fine Particulate Matter (PM2.5)*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SAN DIEGO COUNTY		Х
LAKE COUNTY AIR BASIN		Х	SAN FRANCISCO BAY AREA AIR BASIN (2)	Х	
LAKE TAHOE AIR BASIN		Х	SAN JOAQUIN VALLEY AIR BASIN	Х	
MOUNTAIN COUNTIES AIR BASIN			SOUTH CENTRAL COAST AIR BASIN		Х
Plumas County			SOUTH COAST AIR BASIN (3)	Х	
- Portola Valley Portion of Plumas	Х		SOUTHEAST DESERT AIR BASIN		
- Remainder of Plumas County		Х	Imperial County (portion) (4)	Х	
Remainder of Air Basin		Х	Remainder of Air Basin		Х
NORTH CENTRAL COAST AIR BASIN		Х			
NORTH COAST AIR BASIN		Х			
NORTHEAST PLATEAU AIR BASIN		Х			
SACRAMENTO VALLEY AIR BASIN					
Sacramento Metro Area (1)	Х				
Sutter County		Х			
Yuba County (portion)		Х			
Remainder of Air Basin		Х			

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM2.5 standard as well as the 1997 and 2012 PM2.5 annual standards.

⁽¹⁾ For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

⁽²⁾ Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

⁽³⁾ Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

⁽⁴⁾ That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.



TABLE 14

National Ambient Air Quality Standards Area Designations for Carbon Monoxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SACRAMENTO VALLEY AIR BASIN		Х
LAKE COUNTY AIR BASIN		Х	SAN DIEGO COUNTY		Х
LAKE TAHOE AIR BASIN		Х	SAN FRANCISCO BAY AREA AIR BASIN		Х
MOUNTAIN COUNTIES AIR BASIN		Х	SAN JOAQUIN VALLEY AIR BASIN		Х
NORTH CENTRAL COAST AIR BASIN		Х	SOUTH CENTRAL COAST AIR BASIN		Х
NORTH COAST AIR BASIN		Х	SOUTH COAST AIR BASIN		Х
NORTHEAST PLATEAU AIR BASIN		Х	SOUTHEAST DESERT AIR BASIN		Х

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

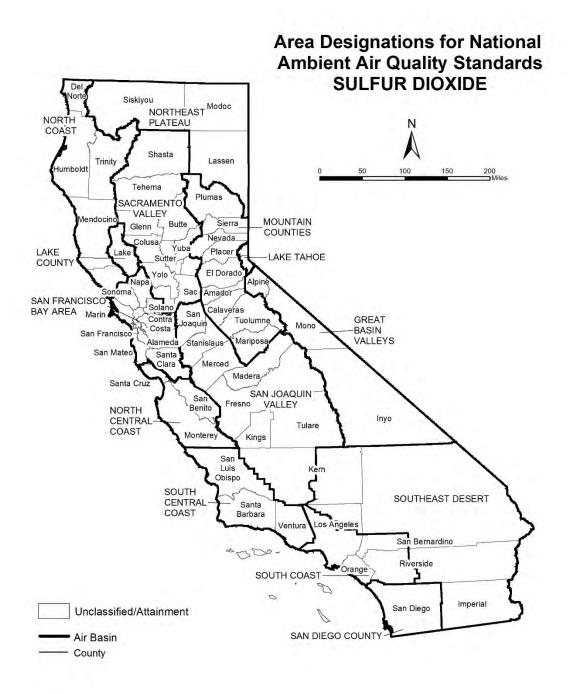


TABLE 15

National Ambient Air Quality Standards Area Designations for Nitrogen Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Χ	SACRAMENTO VALLEY AIR BASIN		Χ
LAKE COUNTY AIR BASIN		Χ	SAN DIEGO COUNTY		Χ
LAKE TAHOE AIR BASIN		Х	SAN FRANCISCO BAY AREA AIR BASIN		Х
MOUNTAIN COUNTIES AIR BASIN		Х	SAN JOAQUIN VALLEY AIR BASIN		Х
NORTH CENTRAL COAST AIR BASIN		Х	SOUTH CENTRAL COAST AIR BASIN		Х
NORTH COAST AIR BASIN		Χ	SOUTH COAST AIR BASIN		Х
NORTHEAST PLATEAU AIR BASIN		Х	SOUTHEAST DESERT AIR BASIN		Х

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.



National Ambient Air Quality Standards Area Designations for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		Х	San Luis Obispo County		Х
LAKE TAHOE AIR BASIN		Х	Santa Barbara County		Х
MOUNTAIN COUNTIES AIR BASIN		Х	Ventura County		Х
NORTH CENTRAL COAST AIR BASIN		Х	Channel Islands (1)		Х
NORTH COAST AIR BASIN		Х	SOUTH COAST AIR BASIN		Х
NORTHEAST PLATEAU AIR BASIN		Х	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		Х	Imperial County		Х
SAN DIEGO COUNTY		Х	Remainder of Air Basin		Х
SAN FRANCISCO BAY AREA AIR BASIN		Х			
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		Х			
Kern County (portion)		Х			
Kings County		Х			
Madera County		Х			
Merced County		Х			
San Joaquin County		Х			
Stanislaus County		Х			
Tulare County		Х			

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2010 1-hour SO_2 standard of 75 ppb.

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

⁽¹⁾ South Central Coast Air Basin Channel Islands:



TABLE 17

National Ambient Air Quality Standards Area Designations for Lead (particulate)

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SAN DIEGO COUNTY		Х
LAKE COUNTY AIR BASIN		Χ	SAN FRANCISCO BAY AREA AIR BASIN		Х
LAKE TAHOE AIR BASIN		Χ	SAN JOAQUIN VALLEY AIR BASIN		Х
MOUNTAIN COUNTIES AIR BASIN		Χ	SOUTH CENTRAL COAST AIR BASIN		Х
NORTH CENTRAL COAST AIR BASIN		Χ	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		Х	Los Angeles County (portion) (1)	Х	
NORTHEAST PLATEAU AIR BASIN		Х	Remainder of Air Basin		Х
SACRAMENTO VALLEY AIR BASIN		Χ	SOUTHEAST DESERT AIR BASIN		Х

⁽¹⁾ Portion of County in Air Basin, not including Channel Islands

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APPENDIX 3.1:

CALEEMOD EMISSIONS MODEL OUTPUTS (UNMITIGATED)



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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

Jefferson Avenue Apartment (Unmitigated)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	80.49	1000sqft	1.85	80,493.00	0
Parking Lot	340.00	Space	3.12	136,000.00	0
Apartments Mid Rise	160.00	Dwelling Unit	4.21	160,000.00	458

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edisc	on			
CO2 Intensity (lb/MWhr)	589.93	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - The Projected 2022 RPS target is derived based on a linear trajectory to reach the 50% project RPS consistent with SB 32 and SB 350.

Land Use - Total Project Area is 9.18 acres.

Construction Phase - It is assumed that Paving and Architectural Coating will overlap with Building Construction activities

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

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

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Off-road Equipment -

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

Trips and VMT - Based on information provided by the Project Applicant, haul trucks will have a 15 CY haul capacity

Grading - As a conservative measure, it is assumed that 5 acres will be disturbed per day during site preparation and grading activities

Architectural Coating - Rule 1113

Vehicle Trips - Trip characteristics based on information provided in the TIA.

Woodstoves - Rule 445

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 53% less energy for residential uses

Construction Off-road Equipment Mitigation - Rule 403

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	230.00	180.00
tblConstructionPhase	NumDays	20.00	158.00
tblEnergyUse	LightingElect	741.44	348.48
tblEnergyUse	T24E	772.17	362.92
tblEnergyUse	T24NG	8,764.08	4,119.12

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tblFireplaces	NumberGas	136.00	160.00
tblFireplaces	NumberNoFireplace	16.00	0.00
tblFireplaces	NumberWood	8.00	0.00
tblGrading	AcresOfGrading	316.00	790.00
tblGrading	AcresOfGrading	20.00	50.00
tblGrading	MaterialImported	0.00	59,300.00
tblLandUse	LotAcreage	3.06	3.12
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	589.93
tblTripsAndVMT	HaulingTripNumber	7,413.00	7,908.00
tblVehicleEF	HHD	1.36	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.09	0.00
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tblVehicleEF	HHD	4.59	0.02
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tblVehicleEF	HHD	2.31	2.57
tblVehicleEF	HHD	0.01	3.4450e-003

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tblVehicleEF	HHD	0.06	0.06
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tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	2.0000e-006
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tblVehicleEF	HHD	0.04	1.0000e-006
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tblVehicleEF	HHD	4.3000e-005	1.0000e-006
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tblVehicleEF	HHD	0.03	0.02
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tblVehicleEF	HHD	0.04	1.0000e-006

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tblVehicleEF	HHD	8.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.06
tblVehicleEF	HHD	1.6100e-004	2.7900e-004
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tblVehicleEF	HHD	0.44	0.21
tblVehicleEF	HHD	1.42	2.7200e-003
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tblVehicleEF	HHD	1,444.51	1,302.97
tblVehicleEF	HHD	4.59	0.02
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tblVehicleEF	HHD	2.30	2.54
tblVehicleEF	HHD	0.01	3.9220e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	0.01	3.7530e-003

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tblVehicleEF HHD 2.4470e-003 6.7000e-005 tblVehicleEF HHD 0.99 0.60 tblVehicleEF HHD 3.6000e-005 1.0000e-006 tblVehicleEF HHD 0.10 0.05 tblVehicleEF HHD 1.6900e-004 2.9200e-004 tblVehicleEF HHD 0.04 1.0000e-006 tblVehicleEF LDA 3.6620e-003 2.1670e-003 tblVehicleEF LDA 4.7760e-003 0.05	tblVehicleEF	leEF HHD	6.9000e-005	0.00
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tblVehicleEF HHD 3.6000e-005 1.0000e-006 tblVehicleEF HHD 0.10 0.05 tblVehicleEF HHD 1.6900e-004 2.9200e-004 tblVehicleEF HHD 0.04 1.0000e-006 tblVehicleEF LDA 3.6620e-003 2.1670e-003 tblVehicleEF LDA 4.7760e-003 0.05	tblVehicleEF	leEF HHD	2.4470e-003	6.7000e-005
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tblVehicleEF LDA 4.7760e-003 0.05	tblVehicleEF	leEF HHD	0.04	1.0000e-006
liiiiii	tblVehicleEF	leEF LDA	3.6620e-003	2.1670e-003
tblVehicleEF LDA 0.54 0.61	tblVehicleEF	leEF LDA	4.7760e-003	0.05
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tblVehicleEF LDA 1.05 2.07	tblVehicleEF	leEF LDA	1.05	2.07
tblVehicleEF LDA 245.52 258.05	tblVehicleEF	leEF LDA	245.52	258.05
tblVehicleEF LDA 56.65 53.14	tblVehicleEF	leEF LDA	56.65	53.14

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tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.5830e-003	1.3740e-003
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tblVehicleEF	LDA	2.0690e-003	1.6880e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	9.2080e-003	8.1890e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5530e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4690e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.93	1.82
tblVehicleEF	LDA	267.36	280.58
tblVehicleEF	LDA	56.65	52.67
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5830e-003	1.3740e-003

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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tblVehicleEF	LDA	2.2500e-003	1.8360e-003
tblVehicleEF	LDA	1.4580e-003	1.2660e-003
tblVehicleEF	LDA	2.0690e-003	1.6880e-003
tblVehicleEF	LDA	0.09	0.13
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.01	9.2540e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7760e-003
tblVehicleEF	LDA	5.8200e-004	5.2100e-004
tblVehicleEF	LDA	0.09	0.13
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0910e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.57
tblVehicleEF	LDA	1.08	2.11
tblVehicleEF	LDA	239.46	251.86
tblVehicleEF	LDA	56.65	53.22
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5830e-003	1.3740e-003
tblVehicleEF	LDA	2.2500e-003	1.8360e-003
tblVehicleEF	LDA	1.4580e-003	1.2660e-003

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tbl/ehicleEF LDA 0.04 0.05 tbl/ehicleEF LDA 0.10 0.10 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 8.8650e-003 7.9080e-003 tbl/ehicleEF LDA 0.04 0.23 tbl/ehicleEF LDA 0.07 0.21 tbl/ehicleEF LDA 2.3970e-003 2.4920e-003 tbl/ehicleEF LDA 5.8500e-004 5.2700e-004 tbl/ehicleEF LDA 0.04 0.05 tbl/ehicleEF LDA 0.10 0.10 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 0.01 0.01 tbl/ehicleEF LDA 0.07 0.23 tbl/ehicleEF LDA 0.07 0.23 tbl/ehicleEF LDT1 0.01 6.9370e-003 tbl/ehicleEF LDT1 0.02 0.08 tbl/ehicleEF LDT1 3.05 2.34 tbl/ehicleEF LDT	tblVehicleEF	LDA	2.0690e-003	1.6880e-003
bl/ehicleEF LDA 0.03 0.04 bl/ehicleEF LDA 8.8850e-003 7.9080e-003 bl/ehicleEF LDA 0.04 0.23 bl/ehicleEF LDA 0.07 0.21 tb/ehicleEF LDA 2.3970e-003 2.4920e-003 tb/ehicleEF LDA 6.8500e-004 5.2700e-004 tb/ehicleEF LDA 0.04 0.05 tb/ehicleEF LDA 0.10 0.10 tb/ehicleEF LDA 0.03 0.04 tb/ehicleEF LDA 0.01 0.01 tb/ehicleEF LDA 0.07 0.23 tb/ehicleEF LDT1 0.01 6.9370e-003 tb/ehicleEF LDT1 0.02 0.08 tb/ehicleEF LDT1 3.05 2.34 tb/ehicleEF LDT1 3.05,87 308.06 tb/ehicleEF LDT1 70.39 64.70 tb/ehicleEF LDT1 0.13 0.12 tb/ehicleEF LDT1	tblVehicleEF	LDA	0.04	0.05
tblVehicleEF LDA 8.8850e-003 7,9080e-003 tblVehicleEF LDA 0.04 0.23 tblVehicleEF LDA 0.07 0.21 tblVehicleEF LDA 2.3970e-003 2.4920e-003 tblVehicleEF LDA 5.8500e-004 5.2700e-004 tblVehicleEF LDA 0.04 0.05 tblVehicleEF LDA 0.10 0.10 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.01 0.01 tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDT1 0.01 6.9370e-003 tblVehicleEF LDT1 0.02 0.08 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF	tblVehicleEF	LDA	0.10	0.10
tbl/ehicleEF LDA 0.04 0.23 tbl/ehicleEF LDA 0.07 0.21 tbl/ehicleEF LDA 2.3970e-003 2.4920e-003 tbl/ehicleEF LDA 5.8500e-004 5.2700e-004 tbl/ehicleEF LDA 0.04 0.05 tbl/ehicleEF LDA 0.10 0.10 tbl/ehicleEF LDA 0.01 0.01 tbl/ehicleEF LDA 0.04 0.23 tbl/ehicleEF LDA 0.07 0.23 tbl/ehicleEF LDT1 0.01 6.9370e-003 tbl/ehicleEF LDT1 0.02 0.08 tbl/ehicleEF LDT1 3.05 2.34 tbl/ehicleEF LDT1 305.87 308.06 tbl/ehicleEF LDT1 70.39 64.70 tbl/ehicleEF LDT1 0.13 0.12 tbl/ehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	0.03	0.04
tbl/ehicleEF LDA 0.07 0.21 tbl/ehicleEF LDA 2.3970e-003 2.4920e-003 tbl/ehicleEF LDA 5.8500e-004 5.2700e-004 tbl/ehicleEF LDA 0.04 0.05 tbl/ehicleEF LDA 0.10 0.10 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 0.01 0.01 tbl/ehicleEF LDA 0.07 0.23 tbl/ehicleEF LDT1 0.01 6.9370e-003 tbl/ehicleEF LDT1 0.02 0.08 tbl/ehicleEF LDT1 1.32 1.43 tbl/ehicleEF LDT1 3.05 2.34 tbl/ehicleEF LDT1 305.87 308.06 tbl/ehicleEF LDT1 70.39 64.70 tbl/ehicleEF LDT1 0.13 0.12 tbl/ehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	8.8850e-003	7.9080e-003
tblVehicleEF LDA 2.3970e-003 2.4920e-003 tblVehicleEF LDA 5.8500e-004 5.2700e-004 tblVehicleEF LDA 0.04 0.05 tblVehicleEF LDA 0.10 0.10 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.01 0.01 tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDTI 0.01 6.9370e-003 tblVehicleEF LDTI 0.02 0.08 tblVehicleEF LDTI 1.32 1.43 tblVehicleEF LDTI 3.05 2.34 tblVehicleEF LDTI 305.87 308.06 tblVehicleEF LDTI 70.39 64.70 tblVehicleEF LDTI 0.13 0.12 tblVehicleEF LDTI 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	0.04	0.23
tblVehicleEF LDA 5.8500e-004 5.2700e-004 tblVehicleEF LDA 0.04 0.05 tblVehicleEF LDA 0.10 0.10 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.01 0.01 tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDT1 0.01 6.9370e-003 tblVehicleEF LDT1 0.02 0.08 tblVehicleEF LDT1 1.32 1.43 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	0.07	0.21
tblVehicleEF LDA 0.04 0.05 tblVehicleEF LDA 0.10 0.10 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.01 0.01 tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDT1 0.01 6.9370e-003 tblVehicleEF LDT1 0.02 0.08 tblVehicleEF LDT1 1.32 1.43 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	2.3970e-003	2.4920e-003
tblVehicleEF LDA 0.10 0.10 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.01 0.01 tblVehicleEF LDA 0.04 0.23 tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDT1 0.01 6.9370e-003 tblVehicleEF LDT1 0.02 0.08 tblVehicleEF LDT1 1.32 1.43 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	5.8500e-004	5.2700e-004
tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.01 0.01 tblVehicleEF LDA 0.04 0.23 tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDT1 0.01 6.9370e-003 tblVehicleEF LDT1 0.02 0.08 tblVehicleEF LDT1 1.32 1.43 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	0.04	0.05
tblVehicleEF LDA 0.01 0.01 tblVehicleEF LDA 0.04 0.23 tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDT1 0.01 6.9370e-003 tblVehicleEF LDT1 0.02 0.08 tblVehicleEF LDT1 1.32 1.43 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	0.10	0.10
tblVehicleEF LDA 0.04 0.23 tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDT1 0.01 6.9370e-003 tblVehicleEF LDT1 0.02 0.08 tblVehicleEF LDT1 1.32 1.43 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	0.03	0.04
tblVehicleEF LDA 0.07 0.23 tblVehicleEF LDT1 0.01 6.9370e-003 tblVehicleEF LDT1 0.02 0.08 tblVehicleEF LDT1 1.32 1.43 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	0.01	0.01
tbl/ehicleEF LDT1 0.01 6.9370e-003 tbl/ehicleEF LDT1 0.02 0.08 tbl/ehicleEF LDT1 1.32 1.43 tbl/ehicleEF LDT1 3.05 2.34 tbl/ehicleEF LDT1 305.87 308.06 tbl/ehicleEF LDT1 70.39 64.70 tbl/ehicleEF LDT1 0.13 0.12 tbl/ehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	0.04	0.23
tblVehicleEF LDT1 0.02 0.08 tblVehicleEF LDT1 1.32 1.43 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDA	0.07	0.23
tblVehicleEF LDT1 1.32 1.43 tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDT1	0.01	6.9370e-003
tblVehicleEF LDT1 3.05 2.34 tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF LDT1 305.87 308.06 tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDT1	1.32	1.43
tblVehicleEF LDT1 70.39 64.70 tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDT1	3.05	2.34
tblVehicleEF LDT1 0.13 0.12 tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDT1	305.87	308.06
tblVehicleEF LDT1 2.3960e-003 2.0960e-003	tblVehicleEF	LDT1	70.39	64.70
L	tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF LDT1 3.5150e-003 2.7320e-003	tblVehicleEF	LDT1	2.3960e-003	2.0960e-003
	tblVehicleEF	LDT1	3.5150e-003	2.7320e-003
tblVehicleEF LDT1 2.2060e-003 1.9290e-003	tblVehicleEF	LDT1	2.2060e-003	1.9290e-003
tblVehicleEF LDT1 3.2320e-003 2.5120e-003	tblVehicleEF	LDT1	3.2320e-003	2.5120e-003
tblVehicleEF LDT1 0.20 0.21	tblVehicleEF	LDT1	0.20	0.21

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tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	3.0750e-003	3.0480e-003
tblVehicleEF	LDT1	7.5800e-004	6.4000e-004
tblVehicleEF	LDT1	0.20	0.21
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.43
tblVehicleEF	LDT1	0.01	7.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.74
tblVehicleEF	LDT1	2.68	2.07
tblVehicleEF	LDT1	332.27	332.04
tblVehicleEF	LDT1	70.39	64.11
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	2.3960e-003	2.0960e-003
tblVehicleEF	LDT1	3.5150e-003	2.7320e-003
tblVehicleEF	LDT1	2.2060e-003	1.9290e-003
tblVehicleEF	LDT1	3.2320e-003	2.5120e-003
tblVehicleEF	LDT1	0.38	0.40
tblVehicleEF	LDT1	0.40	0.31
tblVehicleEF	LDT1	0.25	0.27

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tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.18	0.34
tblVehicleEF	LDT1	3.3430e-003	3.2860e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.40
tblVehicleEF	LDT1	0.40	0.31
tblVehicleEF	LDT1	0.25	0.27
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.6720e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.34
tblVehicleEF	LDT1	3.11	2.39
tblVehicleEF	LDT1	298.00	300.78
tblVehicleEF	LDT1	70.39	64.83
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	2.3960e-003	2.0960e-003
tblVehicleEF	LDT1	3.5150e-003	2.7320e-003
tblVehicleEF	LDT1	2.2060e-003	1.9290e-003
tblVehicleEF	LDT1	3.2320e-003	2.5120e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
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tblVehicleEF tblVehicleEF tblVehicleEF	LDT1 LDT1	0.22	0.41
l	LDT1	0.0050 000	
thIVehicleFF	_	2.9950e-003	2.9760e-003
torvornolo21	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT2	5.1640e-003	3.7850e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.90
tblVehicleEF	LDT2	1.39	2.64
tblVehicleEF	LDT2	342.68	326.57
tblVehicleEF	LDT2	78.65	68.91
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6000e-003	1.4270e-003
tblVehicleEF	LDT2	2.3460e-003	1.8750e-003
tblVehicleEF	LDT2	1.4710e-003	1.3130e-003
tblVehicleEF	LDT2	2.1570e-003	1.7240e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.43
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.2310e-003

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tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.43
tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	5.8560e-003	4.3030e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.10
tblVehicleEF	LDT2	1.23	2.34
tblVehicleEF	LDT2	372.88	349.63
tblVehicleEF	LDT2	78.65	68.30
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	1.6000e-003	1.4270e-003
tblVehicleEF	LDT2	2.3460e-003	1.8750e-003
tblVehicleEF	LDT2	1.4710e-003	1.3130e-003
tblVehicleEF	LDT2	2.1570e-003	1.7240e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.10	0.16
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.43
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.4590e-003
tblVehicleEF	LDT2	8.0700e-004	6.7600e-004
tblVehicleEF	LDT2	0.13	0.21

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tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.10	0.16
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.43
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.6320e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.84
tblVehicleEF	LDT2	1.42	2.71
tblVehicleEF	LDT2	333.62	319.57
tblVehicleEF	LDT2	78.65	69.04
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6000e-003	1.4270e-003
tblVehicleEF	LDT2	2.3460e-003	1.8750e-003
tblVehicleEF	LDT2	1.4710e-003	1.3130e-003
tblVehicleEF	LDT2	2.1570e-003	1.7240e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1620e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
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Jefferson Avenue Apartment	(Unmitigated)	- Riverside-South Coast County, Summer

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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.7600e-003
tblVehicleEF	LHD1	9.5070e-003	4.8390e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.93
tblVehicleEF	LHD1	9.26	9.38
tblVehicleEF	LHD1	602.20	632.13
tblVehicleEF	LHD1	29.86	10.36
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.46
tblVehicleEF	LHD1	9.7000e-004	9.7900e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.2300e-004
tblVehicleEF	LHD1	9.2800e-004	9.3700e-004
tblVehicleEF	LHD1	2.5490e-003	2.5040e-003
tblVehicleEF	LHD1	0.01	9.9950e-003
tblVehicleEF	LHD1	7.6200e-004	2.0500e-004
tblVehicleEF	LHD1	3.7780e-003	3.0170e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.4960e-003
tblVehicleEF	LHD1	0.07	0.06

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tblVehicleEF	LHD1	0.31	0.47
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1480e-003
tblVehicleEF	LHD1	3.4200e-004	1.0300e-004
tblVehicleEF	LHD1	3.7780e-003	3.0170e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.4960e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.47
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.7720e-003
tblVehicleEF	LHD1	9.6980e-003	4.9170e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.88
tblVehicleEF	LHD1	9.26	9.38
tblVehicleEF	LHD1	602.20	632.14
tblVehicleEF	LHD1	29.86	10.28
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.37
tblVehicleEF	LHD1	9.7000e-004	9.7900e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.2300e-004

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tblVehicleEF	LHD1	9.2800e-004	9.3700e-004
tblVehicleEF	LHD1	2.5490e-003	2.5040e-003
tblVehicleEF	LHD1	0.01	9.9950e-003
			! •
tblVehicleEF	LHD1	7.6200e-004	2.0500e-004
tblVehicleEF	LHD1	7.0590e-003	5.6440e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.8600e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1480e-003
tblVehicleEF	LHD1	3.4000e-004	1.0200e-004
tblVehicleEF	LHD1	7.0590e-003	5.6440e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.8600e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.7590e-003
tblVehicleEF	LHD1	9.4900e-003	4.8280e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.93

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tblVehicleEF	LHD1	9.26	9.38
tblVehicleEF	LHD1	602.20	632.12
tblVehicleEF	LHD1	29.86	10.37
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.44
tblVehicleEF	LHD1	9.7000e-004	9.7900e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.2300e-004
tblVehicleEF	LHD1	9.2800e-004	9.3700e-004
tblVehicleEF	LHD1	2.5490e-003	2.5040e-003
tblVehicleEF	LHD1	0.01	9.9950e-003
tblVehicleEF	LHD1	7.6200e-004	2.0500e-004
tblVehicleEF	LHD1	3.3490e-003	2.6630e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3580e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1480e-003
tblVehicleEF	LHD1	3.4200e-004	1.0300e-004
tblVehicleEF	LHD1	3.3490e-003	2.6630e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3580e-003

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tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.51
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	3.0860e-003
tblVehicleEF	LHD2	4.0020e-003	3.5550e-003
tblVehicleEF	LHD2	7.4040e-003	8.4670e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.54
tblVehicleEF	LHD2	14.41	14.77
tblVehicleEF	LHD2	598.41	631.11
tblVehicleEF	LHD2	23.24	7.16
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	1.50	1.61
tblVehicleEF	LHD2	1.3120e-003	1.4480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.1000e-004
tblVehicleEF	LHD2	1.2550e-003	1.3860e-003
tblVehicleEF	LHD2	2.7000e-003	2.7130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	1.0100e-004
tblVehicleEF	LHD2	1.4050e-003	1.6110e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	8.1800e-004
tblVehicleEF	LHD2	0.05	0.06

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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tblVehicleEF	LHD2	0.08	0.23
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	5.8170e-003	6.0810e-003
tblVehicleEF	LHD2	2.5200e-004	7.1000e-005
tblVehicleEF	LHD2	1.4050e-003	1.6110e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	8.1800e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.23
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4600e-003	3.0930e-003
tblVehicleEF	LHD2	4.0450e-003	3.5800e-003
tblVehicleEF	LHD2	7.1500e-003	8.1830e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.49
tblVehicleEF	LHD2	1.04	0.51
tblVehicleEF	LHD2	14.41	14.77
tblVehicleEF	LHD2	598.41	631.12
tblVehicleEF	LHD2	23.24	7.12
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	1.41	1.52
tblVehicleEF	LHD2	1.3120e-003	1.4480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.1000e-004

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tblVehicleEF	LHD2	1.2550e-003	1.3860e-003
tblVehicleEF	LHD2	2.7000e-003	2.7130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	1.0100e-004
tblVehicleEF	LHD2	2.6530e-003	3.0380e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.5540e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.24
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	5.8170e-003	6.0810e-003
tblVehicleEF	LHD2	2.5100e-004	7.0000e-005
tblVehicleEF	LHD2	2.6530e-003	3.0380e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.5540e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.24
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	3.0850e-003
tblVehicleEF	LHD2	3.9920e-003	3.5470e-003
tblVehicleEF	LHD2	7.4470e-003	8.5290e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	. 0.54

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	LHD2	14.41	14.77
tblVehicleEF	LHD2	598.41	631.11
tblVehicleEF	LHD2	23.24	7.17
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	1.48	1.59
tblVehicleEF	LHD2	1.3120e-003	1.4480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.1000e-004
tblVehicleEF	LHD2	1.2550e-003	1.3860e-003
tblVehicleEF	LHD2	2.7000e-003	2.7130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	1.0100e-004
tblVehicleEF	LHD2	1.1040e-003	1.2560e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.8000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.25
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	5.8170e-003	6.0810e-003
tblVehicleEF	LHD2	2.5200e-004	7.1000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2560e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.8000e-004
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Sumr	ner

tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.25
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.26
tblVehicleEF	MCY	9.69	8.57
tblVehicleEF	MCY	166.26	208.19
tblVehicleEF	MCY	45.80	60.41
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8240e-003	1.8040e-003
tblVehicleEF	MCY	3.3680e-003	2.8470e-003
tblVehicleEF	MCY	1.7050e-003	1.6870e-003
tblVehicleEF	MCY	3.1720e-003	2.6790e-003
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.13	2.14
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.82
tblVehicleEF	MCY	2.0370e-003	2.0600e-003
tblVehicleEF	MCY	6.7700e-004	5.9800e-004
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.56	1.82

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	MCY	2.24	1.98
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	19.85	19.92
tblVehicleEF	MCY	9.10	8.00
tblVehicleEF	MCY	166.26	209.15
tblVehicleEF	MCY	45.80	58.86
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.8240e-003	1.8040e-003
tblVehicleEF	MCY	3.3680e-003	2.8470e-003
tblVehicleEF	MCY	1.7050e-003	1.6870e-003
tblVehicleEF	MCY	3.1720e-003	2.6790e-003
tblVehicleEF	MCY	3.36	3.29
tblVehicleEF	MCY	1.24	1.24
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	1.85	1.62
tblVehicleEF	MCY	2.0480e-003	2.0700e-003
tblVehicleEF	MCY	6.6100e-004	5.8200e-004
tblVehicleEF	MCY	3.36	3.29
tblVehicleEF	MCY	1.24	1.24
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.61	2.61
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.01	1.77
tblVehicleEF	MCY	0.42	0.32

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.80
tblVehicleEF	MCY	9.65	8.51
tblVehicleEF	MCY	166.26	207.43
tblVehicleEF	MCY	45.80	60.33
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8240e-003	1.8040e-003
tblVehicleEF	MCY	3.3680e-003	2.8470e-003
tblVehicleEF	MCY	1.7050e-003	1.6870e-003
tblVehicleEF	MCY	3.1720e-003	2.6790e-003
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.04	1.03
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.64	2.07
tblVehicleEF	MCY	2.07	1.82
tblVehicleEF	MCY	2.0300e-003	2.0530e-003
tblVehicleEF	MCY	6.7700e-004	5.9700e-004
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.04	1.03
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.62	2.63
tblVehicleEF	MCY	0.64	2.07
tblVehicleEF	MCY	2.26	1.98
tblVehicleEF	MDV	0.01	4.9040e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.05

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	MDV	2.88	3.10
tblVehicleEF	MDV	474.24	407.96
tblVehicleEF	MDV	107.24	85.75
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	1.6800e-003	1.4930e-003
tblVehicleEF	MDV	2.4130e-003	1.9530e-003
tblVehicleEF	MDV	1.5490e-003	1.3770e-003
tblVehicleEF	MDV	2.2190e-003	1.7960e-003
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0340e-003
tblVehicleEF	MDV	1.1230e-003	8.4900e-004
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.24	0.44
tblVehicleEF	MDV	0.01	5.5890e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.28
tblVehicleEF	MDV	2.54	2.73
tblVehicleEF	MDV	514.80	432.45

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Jefferson Avenue Apartment	(Unmitigated) -	Riverside-South (Coast County, Summer

tblVehicleEF	MDV	107.24	84.99
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	1.6800e-003	1.4930e-003
tblVehicleEF	MDV	2.4130e-003	1.9530e-003
tblVehicleEF	MDV	1.5490e-003	1.3770e-003
tblVehicleEF	MDV	2.2190e-003	1.7960e-003
tblVehicleEF	MDV	0.21	0.25
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.20
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2760e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.25
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.20
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.7070e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.18	0.98
tblVehicleEF	MDV	2.94	3.17
tblVehicleEF	MDV	462.11	400.61
tblVehicleEF	MDV	107.24	85.90
tblVehicleEF	MDV	0.14	0.10

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

			•
tblVehicleEF	MDV	1.6800e-003	1.4930e-003
tblVehicleEF	MDV	2.4130e-003	1.9530e-003
tblVehicleEF	MDV	1.5490e-003	1.3770e-003
tblVehicleEF	MDV	2.2190e-003	1.7960e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.55
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	4.6290e-003	3.9610e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.55
tblVehicleEF	MDV	0.25	0.46
tblVehicleEF	MH	0.03	3.2770e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.33
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	934.95
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.29
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8390e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.2770e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.33
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	934.95
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.05
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8390e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.2770e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.33
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	934.95
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.25
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8390e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.1970e-003	3.4150e-003
tblVehicleEF	MHD	0.05	8.4360e-003
tblVehicleEF	MHD	0.35	0.34
tblVehicleEF	MHD	0.24	0.36
tblVehicleEF	MHD	5.47	0.98
tblVehicleEF	MHD	152.51	72.73
tblVehicleEF	MHD	1,062.94	972.64
tblVehicleEF	MHD	54.61	8.27
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	MHD	0.61	0.57
tblVehicleEF	MHD	0.89	1.55
tblVehicleEF	MHD	9.8000e-004	1.4440e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	9.5000e-005
tblVehicleEF	MHD	9.3700e-004	1.3820e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	8.7000e-005
tblVehicleEF	MHD	1.6000e-003	6.7900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	3.4200e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.9000e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.4200e-004	8.2000e-005
tblVehicleEF	MHD	1.6000e-003	6.7900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	3.4200e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.36	0.05
tblVehicleEF	MHD	0.02	3.0150e-003
tblVehicleEF	MHD	3.2380e-003	3.4390e-003
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	MHD	0.05	8.1570e-003
tblVehicleEF	MHD	0.25	0.29
tblVehicleEF	MHD	0.25	0.36
tblVehicleEF	MHD	5.23	0.94
tblVehicleEF	MHD	161.54	73.65
tblVehicleEF	MHD	1,062.94	972.65
tblVehicleEF	MHD	54.61	8.20
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.46
tblVehicleEF	MHD	8.2600e-004	1.2200e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	9.5000e-005
tblVehicleEF	MHD	7.9000e-004	1.1680e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	8.7000e-005
tblVehicleEF	MHD	3.0890e-003	1.2990e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	6.6700e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.9800e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.3800e-004	8.1000e-005
tblVehicleEF	MHD	3.0890e-003	1.2990e-003
tblVehicleEF	MHD	0.05	0.02

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	6.6700e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.4030e-003
tblVehicleEF	MHD	3.1690e-003	3.3980e-003
tblVehicleEF	MHD	0.05	8.5100e-003
tblVehicleEF	MHD	0.48	0.42
tblVehicleEF	MHD	0.24	0.36
tblVehicleEF	MHD	5.56	0.99
tblVehicleEF	MHD	140.03	71.45
tblVehicleEF	MHD	1,062.94	972.64
tblVehicleEF	MHD	54.61	8.30
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.54
tblVehicleEF	MHD	1.1920e-003	1.7540e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	9.5000e-005
tblVehicleEF	MHD	1.1400e-003	1.6780e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	8.7000e-005
tblVehicleEF	MHD	1.1940e-003	5.2100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.7500e-004
tblVehicleEF	MHD	0.03	0.05

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Jefferson Avenue Apartment	(Unmitigated) -	Riverside-South (Coast County, Summer

tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.34	0.05
tblVehicleEF	MHD	1.3480e-003	6.7700e-004
tblVehicleEF	MHD	0.01	9.2610e-003
tblVehicleEF	MHD	6.4300e-004	8.2000e-005
tblVehicleEF	MHD	1.1940e-003	5.2100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.2900e-004	2.7500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	OBUS	0.01	8.6690e-003
tblVehicleEF	OBUS	6.8270e-003	6.2940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.49
tblVehicleEF	OBUS	0.46	0.72
tblVehicleEF	OBUS	5.79	2.51
tblVehicleEF	OBUS	74.97	71.08
tblVehicleEF	OBUS	1,092.94	1,371.04
tblVehicleEF	OBUS	69.71	20.56
tblVehicleEF	OBUS	0.31	0.33
tblVehicleEF	OBUS	0.97	1.20
tblVehicleEF	OBUS	6.8000e-005	5.9500e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	1.9400e-004
tblVehicleEF	OBUS	6.5000e-005	5.6900e-004

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Jefferson Avenue Apartment	(Unmitigated) -	Riverside-South (Coast County, Summer

tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.7800e-004
tblVehicleEF	OBUS	2.1110e-003	2.6170e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1260e-003
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.2800e-004	6.7800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.0300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6170e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1260e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	0.01	8.7200e-003
tblVehicleEF	OBUS	6.9570e-003	6.4100e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.46	0.73
tblVehicleEF	OBUS	5.41	2.35
tblVehicleEF	OBUS	78.41	70.99
tblVehicleEF	OBUS	1,092.94	1,371.06

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tblVehicleEF	OBUS	69.71	20.28
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.91	1.12
tblVehicleEF	OBUS	5.7000e-005	5.0500e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	1.9400e-004
tblVehicleEF	OBUS	5.4000e-005	4.8300e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.7800e-004
tblVehicleEF	OBUS	3.9250e-003	4.7670e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.1480e-003
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.7700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.0100e-004
tblVehicleEF	OBUS	3.9250e-003	4.7670e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.1480e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	0.01	8.6270e-003

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	OBUS	6.8060e-003	6.2600e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.50
tblVehicleEF	OBUS	0.46	0.72
tblVehicleEF	OBUS	5.84	2.54
tblVehicleEF	OBUS	70.22	71.20
tblVehicleEF	OBUS	1,092.94	1,371.03
tblVehicleEF	OBUS	69.71	20.60
tblVehicleEF	OBUS	0.29	0.33
tblVehicleEF	OBUS	0.97	1.20
tblVehicleEF	OBUS	8.2000e-005	7.1900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	1.9400e-004
tblVehicleEF	OBUS	7.9000e-005	6.8800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.7800e-004
tblVehicleEF	OBUS	1.8300e-003	2.3790e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.0720e-003
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	6.8200e-004	6.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.0400e-004
tblVehicleEF	OBUS	1.8300e-003	2.3790e-003

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.0720e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.82	0.08
tblVehicleEF	SBUS	0.01	6.3720e-003
tblVehicleEF	SBUS	0.06	7.0630e-003
tblVehicleEF	SBUS	7.82	3.08
tblVehicleEF	SBUS	0.60	0.51
tblVehicleEF	SBUS	6.53	0.94
tblVehicleEF	SBUS	1,137.52	365.13
tblVehicleEF	SBUS	1,098.11	1,104.50
tblVehicleEF	SBUS	54.55	6.09
tblVehicleEF	SBUS	9.42	3.47
tblVehicleEF	SBUS	4.31	4.62
tblVehicleEF	SBUS	9.5680e-003	3.7440e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.2000e-005
tblVehicleEF	SBUS	9.1540e-003	3.5820e-003
tblVehicleEF	SBUS	2.6910e-003	2.6500e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	3.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4040e-003
tblVehicleEF	SBUS	0.03	9.3180e-003
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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tblVehicleEF	SBUS	0.93	0.36
tblVehicleEF	SBUS	2.2980e-003	6.7500e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.04
tblVehicleEF	SBUS	0.01	3.4880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.0000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4040e-003
tblVehicleEF	SBUS	0.03	9.3180e-003
tblVehicleEF	SBUS	1.33	0.52
tblVehicleEF	SBUS	2.2980e-003	6.7500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.82	0.08
tblVehicleEF	SBUS	0.01	6.4450e-003
tblVehicleEF	SBUS	0.05	5.9200e-003
tblVehicleEF	SBUS	7.71	3.04
tblVehicleEF	SBUS	0.61	0.52
tblVehicleEF	SBUS	4.73	0.68
tblVehicleEF	SBUS	1,189.12	374.76
tblVehicleEF	SBUS	1,098.11	1,104.52
tblVehicleEF	SBUS	54.55	5.66
tblVehicleEF	SBUS	9.72	3.55
tblVehicleEF	SBUS	4.05	4.35
tblVehicleEF	SBUS	8.0660e-003	3.1630e-003

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

tblVehicleEF	SBUS	0.01	0.01			
tblVehicleEF	SBUS	0.02	0.03			
tblVehicleEF	SBUS	4.7600e-004	4.2000e-005			
tblVehicleEF	SBUS	7.7170e-003	3.0260e-003			
tblVehicleEF	SBUS	2.6910e-003	2.6500e-003			
tblVehicleEF	SBUS	0.02	0.03			
tblVehicleEF	SBUS	4.3700e-004	3.9000e-005			
tblVehicleEF	SBUS	8.7430e-003	2.5310e-003			
tbIVehicleEF	SBUS	0.03	9.8380e-003			
tbIVehicleEF	SBUS	0.92	0.36			
tbIVehicleEF	SBUS	4.2770e-003	1.2510e-003			
tblVehicleEF	SBUS	0.10	0.09			
tblVehicleEF	SBUS	0.01	0.05			
tblVehicleEF	SBUS	0.30	0.03			
tblVehicleEF	SBUS	0.01	3.5790e-003			
tblVehicleEF	SBUS	0.01	0.01			
tblVehicleEF	SBUS	6.2900e-004	5.6000e-005			
tblVehicleEF	SBUS	8.7430e-003	2.5310e-003			
tblVehicleEF	SBUS	0.03	9.8380e-003			
tblVehicleEF	SBUS	1.33	0.52			
tblVehicleEF	SBUS	4.2770e-003	1.2510e-003			
tblVehicleEF	SBUS	0.12	0.11			
tblVehicleEF	SBUS	0.01	0.05			
tblVehicleEF	SBUS	0.33	0.04			
tblVehicleEF	SBUS	0.82	0.08			
tblVehicleEF	SBUS	0.01	6.3640e-003			
tblVehicleEF	SBUS	0.06	7.3130e-003			

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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4.04.1==	00/10		·			
tblVehicleEF	SBUS	7.98	3.13			
tblVehicleEF	SBUS	0.60	0.51			
tblVehicleEF	SBUS	6.89	0.98			
tbIVehicleEF	SBUS	1,066.27	351.83			
tbIVehicleEF	SBUS	1,098.11	1,104.50			
tbIVehicleEF	SBUS	54.55	6.17			
tblVehicleEF	SBUS	9.00	3.35			
tblVehicleEF	SBUS	4.26	4.59			
tbIVehicleEF	SBUS	0.01	4.5460e-003			
tblVehicleEF	SBUS	0.01	0.01			
tblVehicleEF	SBUS	0.02	0.03			
tblVehicleEF	SBUS	4.7600e-004	4.2000e-005			
tblVehicleEF	SBUS	0.01	4.3490e-003			
tblVehicleEF	SBUS	2.6910e-003	2.6500e-003			
tblVehicleEF	SBUS	0.02	0.03			
tblVehicleEF	SBUS	4.3700e-004	3.9000e-005			
tblVehicleEF	SBUS	4.2260e-003	1.2200e-003			
tbIVehicleEF	SBUS	0.03	9.5110e-003			
tbIVehicleEF	SBUS	0.93	0.36			
tbIVehicleEF	SBUS	2.2070e-003	6.5000e-004			
tbIVehicleEF	SBUS	0.10	0.09			
tblVehicleEF	SBUS	0.02	0.07			
tblVehicleEF	SBUS	0.37	0.04			
tblVehicleEF	SBUS	0.01	3.3620e-003			
tblVehicleEF	SBUS	0.01	0.01			
tblVehicleEF	SBUS	6.6500e-004	6.1000e-005			
tblVehicleEF	SBUS	4.2260e-003	1.2200e-003			
			•			

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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tblVehicleEF	SBUS	0.03	9.5110e-003		
tblVehicleEF	SBUS	1.34	0.52		
tblVehicleEF	SBUS	2.2070e-003	6.5000e-004		
tblVehicleEF	SBUS	0.12	0.11		
tblVehicleEF	SBUS	0.02	0.07		
tblVehicleEF	SBUS	0.41	0.05		
tblVehicleEF	UBUS	1.44	3.35		
tblVehicleEF	UBUS	0.08	0.02		
tblVehicleEF	UBUS	7.89	26.06		
tblVehicleEF	UBUS	14.42	1.47		
tblVehicleEF	UBUS	1,799.80	1,617.41		
tblVehicleEF	UBUS	153.89	18.02		
tblVehicleEF	UBUS	4.15	0.32		
tblVehicleEF	UBUS	0.49	0.09		
tblVehicleEF	UBUS	0.01	0.02		
tblVehicleEF	UBUS	0.04	2.9840e-003		
tblVehicleEF	UBUS	1.4590e-003	1.6200e-004		
tblVehicleEF	UBUS	0.21	0.04		
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003		
tblVehicleEF	UBUS	0.04	2.8400e-003		
tblVehicleEF	UBUS	1.3420e-003	1.4900e-004		
tblVehicleEF	UBUS	9.4280e-003	1.8880e-003		
tblVehicleEF	UBUS	0.11	0.01		
tblVehicleEF	UBUS	4.6810e-003	8.4400e-004		
tblVehicleEF	UBUS	0.46	0.05		
tblVehicleEF	UBUS	0.02	0.06		
tblVehicleEF	UBUS	1.13	0.08		

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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tblVehicleEF	UBUS	9.6700e-003	4.8660e-003			
tblVehicleEF	UBUS	1.8000e-003	1.7800e-004			
tblVehicleEF	UBUS	9.4280e-003	1.8880e-003			
tblVehicleEF	UBUS	0.11	0.01			
tblVehicleEF	UBUS	4.6810e-003	8.4400e-004			
tblVehicleEF	UBUS	1.94	3.43			
tblVehicleEF	UBUS	0.02	0.06			
tblVehicleEF	UBUS	1.23	0.08			
tblVehicleEF	UBUS	1.44	3.35			
tblVehicleEF	UBUS	0.08	0.02			
tblVehicleEF	UBUS	7.95	26.06			
tblVehicleEF	UBUS	12.35	1.25			
tblVehicleEF	UBUS	1,799.80	1,617.41			
tblVehicleEF	UBUS	153.89	17.65			
tblVehicleEF	UBUS	3.87	0.31			
tblVehicleEF	UBUS	0.49	0.09			
tblVehicleEF	UBUS	0.01	0.02			
tblVehicleEF	UBUS	0.04	2.9840e-003			
tblVehicleEF	UBUS	1.4590e-003	1.6200e-004			
tblVehicleEF	UBUS	0.21	0.04			
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003			
tblVehicleEF	UBUS	0.04	2.8400e-003			
tblVehicleEF	UBUS	1.3420e-003	1.4900e-004			
tblVehicleEF	UBUS	0.02	3.3540e-003			
tblVehicleEF	UBUS	0.13	0.01			
tblVehicleEF	UBUS	9.3920e-003	1.6790e-003			
tblVehicleEF	UBUS	0.47	0.05			

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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tblVehicleEF	UBUS	0.02	0.06			
tbIVehicleEF	UBUS	1.03	0.07			
tblVehicleEF	UBUS	9.6710e-003	4.8660e-003			
tblVehicleEF	UBUS	1.7640e-003	1.7500e-004			
tblVehicleEF	UBUS	0.02	3.3540e-003			
tblVehicleEF	UBUS	0.13	0.01			
tblVehicleEF	UBUS	9.3920e-003	1.6790e-003			
tblVehicleEF	UBUS	1.95	3.43			
tblVehicleEF	UBUS	0.02	0.06			
tblVehicleEF	UBUS	1.12	0.08			
tblVehicleEF	UBUS	1.44	3.35			
tblVehicleEF	UBUS	0.08	0.02			
tblVehicleEF	UBUS	7.88	26.06			
tblVehicleEF	UBUS	14.60	1.46			
tblVehicleEF	UBUS	1,799.80	1,617.41			
tblVehicleEF	UBUS	153.89	18.00			
tblVehicleEF	UBUS	4.12	0.32			
tblVehicleEF	UBUS	0.49	0.09			
tblVehicleEF	UBUS	0.01	0.02			
tblVehicleEF	UBUS	0.04	2.9840e-003			
tblVehicleEF	UBUS	1.4590e-003	1.6200e-004			
tblVehicleEF	UBUS	0.21	0.04			
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003			
tblVehicleEF	UBUS	0.04	2.8400e-003			
tblVehicleEF	UBUS	1.3420e-003	1.4900e-004			
tblVehicleEF	UBUS	8.6090e-003	1.9290e-003			
tblVehicleEF	UBUS	0.13	0.01			

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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tblVehicleEF	UBUS	4.2750e-003	8.8500e-004
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.13	0.08
tblVehicleEF	UBUS	9.6700e-003	4.8660e-003
tblVehicleEF	UBUS	1.8030e-003	1.7800e-004
tblVehicleEF	UBUS	8.6090e-003	1.9290e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.2750e-003	8.8500e-004
tblVehicleEF	UBUS	1.94	3.43
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.24	0.08
tblVehicleTrips	ST_TR	6.39	8.14
tblVehicleTrips	SU_TR	5.86	6.28
tblVehicleTrips	WD_TR	6.65	7.33
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00

2.0 Emissions Summary

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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/d	day							lb/d	lay		
2021	5.4281	60.8347	26.6863	0.0832	23.5700	2.6472	26.2171	10.5566	2.4354	12.9920	0.0000	8,410.749 5	8,410.749 5	1.7910	0.0000	8,451.020 0
2022	59.1685	48.0307	44.4168	0.1103	3.2679	1.9758	5.2437	0.8744	1.8436	2.7180	0.0000	10,817.07 66	10,817.07 66	2.0116	0.0000	10,867.36 56
Maximum	59.1685	60.8347	44.4168	0.1103	23.5700	2.6472	26.2171	10.5566	2.4354	12.9920	0.0000	10,817.07 66	10,817.07 66	2.0116	0.0000	10,867.36 56

Mitigated Construction

	ROG	NOx	СО	SO2	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				
2021	5.4281	60.8347	26.6863	0.0832	9.3150	2.6472	11.9622	4.1496	2.4354	6.5850	0.0000	8,410.749 5	8,410.749 5	1.7910	0.0000	8,451.020 0
2022	59.1685	48.0307	44.4168	0.1103	3.2679	1.9758	5.2437	0.8744	1.8436	2.7180	0.0000	10,817.07 66	10,817.07 66	2.0116	0.0000	10,867.36 55
Maximum	59.1685	60.8347	44.4168	0.1103	9.3150	2.6472	11.9622	4.1496	2.4354	6.5850	0.0000	10,817.07 66	10,817.07 66	2.0116	0.0000	10,867.36 55
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.12	0.00	45.31	56.05	0.00	40.78	0.00	0.00	0.00	0.00	0.00	0.00

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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	Category Ib/day											lb/d	lay			
Area	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878	i i	0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6
Energy	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332	1 1 1	0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
Mobile	3.5186	14.1272	33.5963	0.1112	9.4792	0.1349	9.6141	2.5341	0.1276	2.6617		11,443.134 1	11,443.134 1	0.4028		11,453.203 4
Total	7.8157	17.3441	48.1576	0.1314	9.4792	0.4558	9.9350	2.5341	0.4485	2.9826	0.0000	15,378.63 32	15,378.63 32	0.5009	0.0717	15,412.52 68

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day				lb/d	lay					
Area	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878		0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6
Energy	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
Mobile	3.5186	14.1272	33.5963	0.1112	9.4792	0.1349	9.6141	2.5341	0.1276	2.6617		11,443.134 1	11,443.134 1	0.4028	 	11,453.203 4
Total	7.8157	17.3441	48.1576	0.1314	9.4792	0.4558	9.9350	2.5341	0.4485	2.9826	0.0000	15,378.63 32	15,378.63 32	0.5009	0.0717	15,412.52 68

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2021	5/14/2021	5	10	
2	Grading	Grading	5/15/2021	12/22/2021	5	158	
3	Building Construction	Building Construction	12/23/2021	8/31/2022	5	180	
4	Paving	Paving	8/4/2022	8/31/2022	5	20	
5	Architectural Coating	Architectural Coating	8/4/2022	8/31/2022	5	20	

Acres of Grading (Site Preparation Phase): 50

Acres of Grading (Grading Phase): 790

Acres of Paving: 4.97

Residential Indoor: 324,000; Residential Outdoor: 108,000; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

12,990 (Architectural Coating - sqft)

OffRoad Equipment

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	3	8.00	212	0.43
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	7,908.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	206.00	53.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					23.3688	0.0000	23.3688	10.5032	0.0000	10.5032			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460] 	2.4343	2.4343		5,523.504 7	5,523.504 7	1.7864	 	5,568.165 1
Total	5.3428	60.7861	21.8537	0.0570	23.3688	2.6460	26.0148	10.5032	2.4343	12.9376		5,523.504 7	5,523.504 7	1.7864		5,568.165 1

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.2 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	 	0.0000
Worker	0.0853	0.0486	0.6655	1.9200e- 003	0.2012	1.1900e- 003	0.2024	0.0534	1.0900e- 003	0.0545		191.6552	191.6552	4.5700e- 003	 	191.7694
Total	0.0853	0.0486	0.6655	1.9200e- 003	0.2012	1.1900e- 003	0.2024	0.0534	1.0900e- 003	0.0545		191.6552	191.6552	4.5700e- 003		191.7694

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Fugitive Dust	ii ii				9.1138	0.0000	9.1138	4.0963	0.0000	4.0963			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343	0.0000	5,523.504 7	5,523.504 7	1.7864		5,568.165 1
Total	5.3428	60.7861	21.8537	0.0570	9.1138	2.6460	11.7598	4.0963	2.4343	6.5306	0.0000	5,523.504 7	5,523.504 7	1.7864		5,568.165 1

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0853	0.0486	0.6655	1.9200e- 003	0.2012	1.1900e- 003	0.2024	0.0534	1.0900e- 003	0.0545		191.6552	191.6552	4.5700e- 003		191.7694
Total	0.0853	0.0486	0.6655	1.9200e- 003	0.2012	1.1900e- 003	0.2024	0.0534	1.0900e- 003	0.0545		191.6552	191.6552	4.5700e- 003		191.7694

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					11.3721	0.0000	11.3721	3.8900	0.0000	3.8900			0.0000			0.0000
Off-Road	3.3813	39.9534	16.3820	0.0439	 	1.6111	1.6111		1.4822	1.4822		4,250.314 4	4,250.314 4	1.3746	 	4,284.680 3
Total	3.3813	39.9534	16.3820	0.0439	11.3721	1.6111	12.9832	3.8900	1.4822	5.3722		4,250.314 4	4,250.314 4	1.3746		4,284.680 3

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.3 Grading - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.2436	10.8788	1.4306	0.0377	0.8755	0.0331	0.9086	0.2400	0.0317	0.2717		4,000.722 5	4,000.722 5	0.2324		4,006.531 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0711	0.0405	0.5546	1.6000e- 003	0.1677	9.9000e- 004	0.1687	0.0445	9.1000e- 004	0.0454		159.7126	159.7126	3.8100e- 003		159.8078
Total	0.3147	10.9193	1.9851	0.0393	1.0432	0.0341	1.0773	0.2845	0.0326	0.3171		4,160.435 1	4,160.435 1	0.2362		4,166.339 7

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					4.4351	0.0000	4.4351	1.5171	0.0000	1.5171			0.0000			0.0000
Off-Road	3.3813	39.9534	16.3820	0.0439		1.6111	1.6111		1.4822	1.4822	0.0000	4,250.314 4	4,250.314 4	1.3746		4,284.680 3
Total	3.3813	39.9534	16.3820	0.0439	4.4351	1.6111	6.0462	1.5171	1.4822	2.9993	0.0000	4,250.314 4	4,250.314 4	1.3746		4,284.680 3

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.3 Grading - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.2436	10.8788	1.4306	0.0377	0.8755	0.0331	0.9086	0.2400	0.0317	0.2717		4,000.722 5	4,000.722 5	0.2324		4,006.531 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0711	0.0405	0.5546	1.6000e- 003	0.1677	9.9000e- 004	0.1687	0.0445	9.1000e- 004	0.0454		159.7126	159.7126	3.8100e- 003		159.8078
Total	0.3147	10.9193	1.9851	0.0393	1.0432	0.0341	1.0773	0.2845	0.0326	0.3171		4,160.435 1	4,160.435 1	0.2362		4,166.339 7

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.4297	4,114.4297	1.1209		4,142.452 0
Total	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.429 7	4,114.429 7	1.1209		4,142.452 0

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.4 Building Construction - 2021 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1237	4.9046	0.8751	0.0137	0.3394	9.3300e- 003	0.3487	0.0977	8.9200e- 003	0.1066		1,448.230 4	1,448.230 4	0.1036	 	1,450.820 6
Worker	0.9766	0.5564	7.6161	0.0220	2.3026	0.0136	2.3162	0.6107	0.0125	0.6232		2,193.386 9	2,193.386 9	0.0523	 	2,194.694 4
Total	1.1004	5.4610	8.4911	0.0358	2.6420	0.0229	2.6649	0.7084	0.0214	0.7298		3,641.617 3	3,641.617 3	0.1559		3,645.515 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775	0.0000	4,114.4297	4,114.4297	1.1209		4,142.452 0
Total	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775	0.0000	4,114.429 7	4,114.429 7	1.1209		4,142.452 0

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.4 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1237	4.9046	0.8751	0.0137	0.3394	9.3300e- 003	0.3487	0.0977	8.9200e- 003	0.1066		1,448.230 4	1,448.230 4	0.1036		1,450.820 6
Worker	0.9766	0.5564	7.6161	0.0220	2.3026	0.0136	2.3162	0.6107	0.0125	0.6232		2,193.386 9	2,193.386 9	0.0523		2,194.694 4
Total	1.1004	5.4610	8.4911	0.0358	2.6420	0.0229	2.6649	0.7084	0.0214	0.7298		3,641.617 3	3,641.617 3	0.1559		3,645.515 0

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.5322	4,110.5322	1.1153		4,138.413 5
Total	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.532 2	4,110.532 2	1.1153		4,138.413 5

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.4 Building Construction - 2022 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1154	4.6273	0.8139	0.0136	0.3394	7.8400e- 003	0.3472	0.0977	7.5000e- 003	0.1052		1,435.903 5	1,435.903 5	0.0981		1,438.356 5
Worker	0.9135	0.5007	7.0248	0.0212	2.3026	0.0132	2.3158	0.6107	0.0122	0.6228		2,113.2428	2,113.2428	0.0470		2,114.4173
Total	1.0289	5.1280	7.8387	0.0348	2.6420	0.0211	2.6630	0.7084	0.0197	0.7280		3,549.146 3	3,549.146 3	0.1451		3,552.773 8

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.5322	4,110.5322	1.1153		4,138.413 5
Total	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.532 2	4,110.532 2	1.1153		4,138.413 5

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.4 Building Construction - 2022 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1154	4.6273	0.8139	0.0136	0.3394	7.8400e- 003	0.3472	0.0977	7.5000e- 003	0.1052		1,435.903 5	1,435.903 5	0.0981		1,438.356 5
Worker	0.9135	0.5007	7.0248	0.0212	2.3026	0.0132	2.3158	0.6107	0.0122	0.6228		2,113.2428	2,113.2428	0.0470		2,114.4173
Total	1.0289	5.1280	7.8387	0.0348	2.6420	0.0211	2.6630	0.7084	0.0197	0.7280		3,549.146 3	3,549.146 3	0.1451		3,552.773 8

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.6511				 	0.0000	0.0000	 	0.0000	0.0000		 	0.0000		 	0.0000
Total	1.7539	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660	0.7140		2,225.510 4

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.5 Paving - 2022

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0365	0.5115	1.5400e- 003	0.1677	9.6000e- 004	0.1686	0.0445	8.9000e- 004	0.0454		153.8769	153.8769	3.4200e- 003		153.9624
Total	0.0665	0.0365	0.5115	1.5400e- 003	0.1677	9.6000e- 004	0.1686	0.0445	8.9000e- 004	0.0454		153.8769	153.8769	3.4200e- 003		153.9624

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.6511					0.0000	0.0000	1 1 1	0.0000	0.0000			0.0000		i i i	0.0000
Total	1.7539	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660	0.7140		2,225.510 4

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0365	0.5115	1.5400e- 003	0.1677	9.6000e- 004	0.1686	0.0445	8.9000e- 004	0.0454		153.8769	153.8769	3.4200e- 003		153.9624
Total	0.0665	0.0365	0.5115	1.5400e- 003	0.1677	9.6000e- 004	0.1686	0.0445	8.9000e- 004	0.0454		153.8769	153.8769	3.4200e- 003		153.9624

3.6 Architectural Coating - 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/d	day							lb/c	day		
Archit. Coating	53.0684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e- 003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	53.3412	1.8780	2.4181	3.9600e- 003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.6 Architectural Coating - 2022 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1818	0.0997	1.3981	4.2200e- 003	0.4583	2.6300e- 003	0.4609	0.1215	2.4200e- 003	0.1240		420.5969	420.5969	9.3500e- 003		420.8306
Total	0.1818	0.0997	1.3981	4.2200e- 003	0.4583	2.6300e- 003	0.4609	0.1215	2.4200e- 003	0.1240		420.5969	420.5969	9.3500e- 003		420.8306

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d			lb/c	lay							
Archit. Coating	53.0684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e- 003		0.1090	0.1090	1 1 1 1 1	0.1090	0.1090	0.0000	375.2641	375.2641	0.0244	 	375.8749
Total	53.3412	1.8780	2.4181	3.9600e- 003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

3.6 Architectural Coating - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1818	0.0997	1.3981	4.2200e- 003	0.4583	2.6300e- 003	0.4609	0.1215	2.4200e- 003	0.1240		420.5969	420.5969	9.3500e- 003		420.8306
Total	0.1818	0.0997	1.3981	4.2200e- 003	0.4583	2.6300e- 003	0.4609	0.1215	2.4200e- 003	0.1240		420.5969	420.5969	9.3500e- 003		420.8306

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Mitigated	3.5186	14.1272	33.5963	0.1112	9.4792	0.1349	9.6141	2.5341	0.1276	2.6617		11,443.134 1	11,443.134 1	0.4028		11,453.203 4
Unmitigated	3.5186	14.1272	33.5963	0.1112	9.4792	0.1349	9.6141	2.5341	0.1276	2.6617		11,443.134 1	11,443.134 1	0.4028		11,453.203 4

4.2 Trip Summary Information

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,172.00	1,302.40	1004.80	3,986,938	3,986,938
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,172.00	1,302.40	1,004.80	3,986,938	3,986,938

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
Apartments Mid Rise	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
NaturalGas Mitigated	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s 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/d			lb/c	lay							
Apartments Mid Rise	4448.93	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332	i i i	0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	, 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	,	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138

Mitigated

	NaturalGa s Use	ROG	NOx	СО	SO2	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/d				lb/c	lay						
Apartments Mid Rise	4.44893	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000]	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138

6.0 Area Detail

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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/e	day							lb/c	lay		
Mitigated	4.2492	2.8069	14.3868	0.0176	 	0.2878	0.2878	 	0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6
Unmitigated	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878		0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

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/d	day							lb/d	day		
	0.2908					0.0000	0.0000	i i	0.0000	0.0000			0.0000		 	0.0000
Consumer Products	3.2447		i			0.0000	0.0000	i i	0.0000	0.0000			0.0000		 	0.0000
Hearth	0.3106	2.6541	1.1294	0.0169		0.2146	0.2146	i i	0.2146	0.2146	0.0000	3,388.235 3	3,388.235 3	0.0649	0.0621	3,408.369 9
Landscaping	0.4031	0.1528	13.2574	7.0000e- 004		0.0732	0.0732	1 1 1	0.0732	0.0732		23.8604	23.8604	0.0232		24.4397
Total	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878		0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
	0.2908					0.0000	0.0000	i i i	0.0000	0.0000			0.0000		i i i	0.0000
Consumer Products	3.2447					0.0000	0.0000	 	0.0000	0.0000			0.0000		 	0.0000
Hearth	0.3106	2.6541	1.1294	0.0169		0.2146	0.2146	 	0.2146	0.2146	0.0000	3,388.235 3	3,388.235 3	0.0649	0.0621	3,408.369 9
Landscaping	0.4031	0.1528	13.2574	7.0000e- 004		0.0732	0.0732	1 	0.0732	0.0732		23.8604	23.8604	0.0232		24.4397
Total	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878		0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Summer

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

Jefferson Avenue Apartment (Unmitigated)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	80.49	1000sqft	1.85	80,493.00	0
Parking Lot	340.00	Space	3.12	136,000.00	0
Apartments Mid Rise	160.00	Dwelling Unit	4.21	160,000.00	458

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Ediso	on			

 CO2 Intensity
 589.93
 CH4 Intensity
 0.029
 N20 Intensity
 0.006

 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)

1.3 User Entered Comments & Non-Default Data

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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Project Characteristics - The Projected 2022 RPS target is derived based on a linear trajectory to reach the 50% project RPS consistent with SB 32 and SB 350.

Land Use - Total Project Area is 9.18 acres.

Construction Phase - It is assumed that Paving and Architectural Coating will overlap with Building Construction activities

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

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

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

Off-road Equipment -

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

Trips and VMT - Based on information provided by the Project Applicant, haul trucks will have a 15 CY haul capacity

Grading - As a conservative measure, it is assumed that 5 acres will be disturbed per day during site preparation and grading activities

Architectural Coating - Rule 1113

Vehicle Trips - Trip characteristics based on information provided in the TIA.

Woodstoves - Rule 445

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 53% less energy for residential uses

Construction Off-road Equipment Mitigation - Rule 403

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value	
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00	
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00	
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tblConstructionPhase	NumDays	20.00	158.00	
tblEnergyUse	LightingElect	741.44	348.48	
tblEnergyUse	T24E	772.17	362.92	
tblEnergyUse	T24NG	8,764.08	4,119.12	

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblFireplaces	NumberWood	8.00	0.00
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tblGrading	AcresOfGrading	20.00	50.00
tblGrading	MaterialImported	0.00	59,300.00
tblLandUse	LotAcreage	3.06	3.12
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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			•

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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Jefferson Avenue Apartment	(Unmitigated) - Riverside-South	Coast County, Winter

tblVehicleEF	LDA	2.0690e-003	1.6880e-003
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	LDT1	0.32	0.25
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tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	3.0750e-003	3.0480e-003
tblVehicleEF	LDT1	7.5800e-004	6.4000e-004
tblVehicleEF	LDT1	0.20	0.21
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.43
tblVehicleEF	LDT1	0.01	7.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.74
tblVehicleEF	LDT1	2.68	2.07
tblVehicleEF	LDT1	332.27	332.04
tblVehicleEF	LDT1	70.39	64.11
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	2.3960e-003	2.0960e-003
tblVehicleEF	LDT1	3.5150e-003	2.7320e-003
tblVehicleEF	LDT1	2.2060e-003	1.9290e-003
tblVehicleEF	LDT1	3.2320e-003	2.5120e-003
tblVehicleEF	LDT1	0.38	0.40
tblVehicleEF	LDT1	0.40	0.31
tblVehicleEF	LDT1	0.25	0.27
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Jefferson Avenue Apartment	(Unmitigated) - Riverside-South	Coast County, Winter
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			•
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.18	0.34
tblVehicleEF	LDT1	3.3430e-003	3.2860e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.40
tblVehicleEF	LDT1	0.40	0.31
tblVehicleEF	LDT1	0.25	0.27
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.6720e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.34
tblVehicleEF	LDT1	3.11	2.39
tblVehicleEF	LDT1	298.00	300.78
tblVehicleEF	LDT1	70.39	64.83
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	2.3960e-003	2.0960e-003
tblVehicleEF	LDT1	3.5150e-003	2.7320e-003
tblVehicleEF	LDT1	2.2060e-003	1.9290e-003
tblVehicleEF	LDT1	3.2320e-003	2.5120e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9760e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT2	5.1640e-003	3.7850e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.90
tblVehicleEF	LDT2	1.39	2.64
tblVehicleEF	LDT2	342.68	326.57
tblVehicleEF	LDT2	78.65	68.91
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6000e-003	1.4270e-003
tblVehicleEF	LDT2	2.3460e-003	1.8750e-003
tblVehicleEF	LDT2	1.4710e-003	1.3130e-003
tblVehicleEF	LDT2	2.1570e-003	1.7240e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.43
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.2310e-003

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.43
tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	5.8560e-003	4.3030e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.10
tblVehicleEF	LDT2	1.23	2.34
tblVehicleEF	LDT2	372.88	349.63
tblVehicleEF	LDT2	78.65	68.30
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	1.6000e-003	1.4270e-003
tblVehicleEF	LDT2	2.3460e-003	1.8750e-003
tblVehicleEF	LDT2	1.4710e-003	1.3130e-003
tblVehicleEF	LDT2	2.1570e-003	1.7240e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.10	0.16
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.43
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.4590e-003
tblVehicleEF	LDT2	8.0700e-004	6.7600e-004
tblVehicleEF	LDT2	0.13	0.21

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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	•	(Unmitigated) - Riverside-South C	
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.10	0.16
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.43
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.6320e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.84
tblVehicleEF	LDT2	1.42	2.71
tblVehicleEF	LDT2	333.62	319.57
tblVehicleEF	LDT2	78.65	69.04
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6000e-003	1.4270e-003
tblVehicleEF	LDT2	2.3460e-003	1.8750e-003
tblVehicleEF	LDT2	1.4710e-003	1.3130e-003
tblVehicleEF	LDT2	2.1570e-003	1.7240e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1620e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07

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Jefferson Avenue Ap	partment (Unmitigated) - Riverside-South	Coast County, Winter
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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.7600e-003
tblVehicleEF	LHD1	9.5070e-003	4.8390e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.93
tblVehicleEF	LHD1	9.26	9.38
tblVehicleEF	LHD1	602.20	632.13
tblVehicleEF	LHD1	29.86	10.36
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.46
tblVehicleEF	LHD1	9.7000e-004	9.7900e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.2300e-004
tblVehicleEF	LHD1	9.2800e-004	9.3700e-004
tblVehicleEF	LHD1	2.5490e-003	2.5040e-003
tbIVehicleEF	LHD1	0.01	9.9950e-003
tblVehicleEF	LHD1	7.6200e-004	2.0500e-004
tblVehicleEF	LHD1	3.7780e-003	3.0170e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.4960e-003
tblVehicleEF	LHD1	0.07	0.06

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	LHD1	0.31	0.47
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1480e-003
tblVehicleEF	LHD1	3.4200e-004	1.0300e-004
tblVehicleEF	LHD1	3.7780e-003	3.0170e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.4960e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.47
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.7720e-003
tblVehicleEF	LHD1	9.6980e-003	4.9170e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.88
tblVehicleEF	LHD1	9.26	9.38
tblVehicleEF	LHD1	602.20	632.14
tblVehicleEF	LHD1	29.86	10.28
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.37
tblVehicleEF	LHD1	9.7000e-004	9.7900e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.2300e-004

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	LHD1	9.2800e-004	9.3700e-004
tblVehicleEF	LHD1	2.5490e-003	2.5040e-003
tblVehicleEF	LHD1	0.01	9.9950e-003
tblVehicleEF	LHD1	7.6200e-004	2.0500e-004
tblVehicleEF	LHD1	7.0590e-003	5.6440e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.8600e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1480e-003
tblVehicleEF	LHD1	3.4000e-004	1.0200e-004
tblVehicleEF	LHD1	7.0590e-003	5.6440e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.8600e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.7590e-003
tblVehicleEF	LHD1	9.4900e-003	4.8280e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.93

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	LHD1	9.26	9.38
tblVehicleEF	LHD1	602.20	632.12
tblVehicleEF	LHD1	29.86	10.37
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.44
tblVehicleEF	LHD1	9.7000e-004	9.7900e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.2300e-004
tblVehicleEF	LHD1	9.2800e-004	9.3700e-004
tblVehicleEF	LHD1	2.5490e-003	2.5040e-003
tblVehicleEF	LHD1	0.01	9.9950e-003
tblVehicleEF	LHD1	7.6200e-004	2.0500e-004
tblVehicleEF	LHD1	3.3490e-003	2.6630e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3580e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1480e-003
tblVehicleEF	LHD1	3.4200e-004	1.0300e-004
tblVehicleEF	LHD1	3.3490e-003	2.6630e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3580e-003

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.51
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	3.0860e-003
tblVehicleEF	LHD2	4.0020e-003	3.5550e-003
tblVehicleEF	LHD2	7.4040e-003	8.4670e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.54
tblVehicleEF	LHD2	14.41	14.77
tblVehicleEF	LHD2	598.41	631.11
tblVehicleEF	LHD2	23.24	7.16
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	1.50	1.61
tblVehicleEF	LHD2	1.3120e-003	1.4480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.1000e-004
tblVehicleEF	LHD2	1.2550e-003	1.3860e-003
tblVehicleEF	LHD2	2.7000e-003	2.7130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	1.0100e-004
tblVehicleEF	LHD2	1.4050e-003	1.6110e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	8.1800e-004
tblVehicleEF	LHD2	0.05	0.06
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	LHD2	0.08	0.23
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	5.8170e-003	6.0810e-003
tblVehicleEF	LHD2	2.5200e-004	7.1000e-005
tblVehicleEF	LHD2	1.4050e-003	1.6110e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	8.1800e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.23
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4600e-003	3.0930e-003
tblVehicleEF	LHD2	4.0450e-003	3.5800e-003
tblVehicleEF	LHD2	7.1500e-003	8.1830e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.49
tblVehicleEF	LHD2	1.04	0.51
tblVehicleEF	LHD2	14.41	14.77
tblVehicleEF	LHD2	598.41	631.12
tblVehicleEF	LHD2	23.24	7.12
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	1.41	1.52
tblVehicleEF	LHD2	1.3120e-003	1.4480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.1000e-004
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	LHD2	1.2550e-003	1.3860e-003
tblVehicleEF	LHD2	2.7000e-003	2.7130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	1.0100e-004
tblVehicleEF	LHD2	2.6530e-003	3.0380e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.5540e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.24
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	5.8170e-003	6.0810e-003
tblVehicleEF	LHD2	2.5100e-004	7.0000e-005
tblVehicleEF	LHD2	2.6530e-003	3.0380e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.5540e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.24
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	3.0850e-003
tblVehicleEF	LHD2	3.9920e-003	3.5470e-003
tblVehicleEF	LHD2	7.4470e-003	8.5290e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.54

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	LHD2	14.41	14.77
tblVehicleEF	LHD2	598.41	631.11
tblVehicleEF	LHD2	23.24	7.17
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	1.48	1.59
tblVehicleEF	LHD2	1.3120e-003	1.4480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.1000e-004
tblVehicleEF	LHD2	1.2550e-003	1.3860e-003
tblVehicleEF	LHD2	2.7000e-003	2.7130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	1.0100e-004
tblVehicleEF	LHD2	1.1040e-003	1.2560e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.8000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.25
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	5.8170e-003	6.0810e-003
tblVehicleEF	LHD2	2.5200e-004	7.1000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2560e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.8000e-004

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.25
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.26
tblVehicleEF	MCY	9.69	8.57
tblVehicleEF	MCY	166.26	208.19
tblVehicleEF	MCY	45.80	60.41
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8240e-003	1.8040e-003
tblVehicleEF	MCY	3.3680e-003	2.8470e-003
tblVehicleEF	MCY	1.7050e-003	1.6870e-003
tblVehicleEF	MCY	3.1720e-003	2.6790e-003
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.13	2.14
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.82
tblVehicleEF	MCY	2.0370e-003	2.0600e-003
tblVehicleEF	MCY	6.7700e-004	5.9800e-004
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.56	1.82
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	MCY	2.24	1.98
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	19.85	19.92
tblVehicleEF	MCY	9.10	8.00
tblVehicleEF	MCY	166.26	209.15
tblVehicleEF	MCY	45.80	58.86
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.8240e-003	1.8040e-003
tblVehicleEF	MCY	3.3680e-003	2.8470e-003
tblVehicleEF	MCY	1.7050e-003	1.6870e-003
tblVehicleEF	MCY	3.1720e-003	2.6790e-003
tblVehicleEF	MCY	3.36	3.29
tblVehicleEF	MCY	1.24	1.24
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	1.85	1.62
tblVehicleEF	MCY	2.0480e-003	2.0700e-003
tblVehicleEF	MCY	6.6100e-004	5.8200e-004
tblVehicleEF	MCY	3.36	3.29
tblVehicleEF	MCY	1.24	1.24
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.61	2.61
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.01	1.77
tblVehicleEF	MCY	0.42	0.32

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.80
tblVehicleEF	MCY	9.65	8.51
tblVehicleEF	MCY	166.26	207.43
tblVehicleEF	MCY	45.80	60.33
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8240e-003	1.8040e-003
tblVehicleEF	MCY	3.3680e-003	2.8470e-003
tblVehicleEF	MCY	1.7050e-003	1.6870e-003
tblVehicleEF	MCY	3.1720e-003	2.6790e-003
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.04	1.03
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.64	2.07
tblVehicleEF	MCY	2.07	1.82
tblVehicleEF	MCY	2.0300e-003	2.0530e-003
tblVehicleEF	MCY	6.7700e-004	5.9700e-004
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.04	1.03
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.62	2.63
tblVehicleEF	MCY	0.64	2.07
tblVehicleEF	MCY	2.26	1.98
tblVehicleEF	MDV	0.01	4.9040e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.05
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	MDV	2.88	3.10
tblVehicleEF	MDV	474.24	407.96
tblVehicleEF	MDV	107.24	85.75
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	1.6800e-003	1.4930e-003
tblVehicleEF	MDV	2.4130e-003	1.9530e-003
tblVehicleEF	MDV	1.5490e-003	1.3770e-003
tblVehicleEF	MDV	2.2190e-003	1.7960e-003
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0340e-003
tblVehicleEF	MDV	1.1230e-003	8.4900e-004
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.24	0.44
tblVehicleEF	MDV	0.01	5.5890e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.28
tblVehicleEF	MDV	2.54	2.73
tblVehicleEF	MDV	514.80	432.45

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	MDV	107.24	84.99
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	1.6800e-003	1.4930e-003
tblVehicleEF	MDV	2.4130e-003	1.9530e-003
tblVehicleEF	MDV	1.5490e-003	1.3770e-003
tblVehicleEF	MDV	2.2190e-003	1.7960e-003
tblVehicleEF	MDV	0.21	0.25
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.20
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2760e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.25
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.20
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.7070e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.18	0.98
tblVehicleEF	MDV	2.94	3.17
tblVehicleEF	MDV	462.11	400.61
tblVehicleEF	MDV	107.24	85.90
tblVehicleEF	MDV	0.14	0.10

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	MDV	1.6800e-003	1.4930e-003
tblVehicleEF	MDV	2.4130e-003	1.9530e-003
tblVehicleEF	MDV	1.5490e-003	1.3770e-003
tblVehicleEF	MDV	2.2190e-003	1.7960e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.55
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	4.6290e-003	3.9610e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.55
tblVehicleEF	MDV	0.25	0.46
tblVehicleEF	MH	0.03	3.2770e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.33
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	934.95
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.29
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	МН	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8390e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.2770e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.33
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	934.95
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.05
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	МН	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8390e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.2770e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.33
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	934.95
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.25
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

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tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8390e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.1970e-003	3.4150e-003
tblVehicleEF	MHD	0.05	8.4360e-003
tblVehicleEF	MHD	0.35	0.34
tblVehicleEF	MHD	0.24	0.36
tblVehicleEF	MHD	5.47	0.98
tblVehicleEF	MHD	152.51	72.73
tblVehicleEF	MHD	1,062.94	972.64
tblVehicleEF	MHD	54.61	8.27

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	MHD	0.61	0.57
tblVehicleEF	MHD	0.89	1.55
tblVehicleEF	MHD	9.8000e-004	1.4440e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	9.5000e-005
tblVehicleEF	MHD	9.3700e-004	1.3820e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	8.7000e-005
tblVehicleEF	MHD	1.6000e-003	6.7900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	3.4200e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.9000e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.4200e-004	8.2000e-005
tblVehicleEF	MHD	1.6000e-003	6.7900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	3.4200e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.36	0.05
tblVehicleEF	MHD	0.02	3.0150e-003
tblVehicleEF	MHD	3.2380e-003	3.4390e-003
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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	MHD	0.05	8.1570e-003
tblVehicleEF	MHD	0.25	0.29
tblVehicleEF	MHD	0.25	0.36
tblVehicleEF	MHD	5.23	0.94
tblVehicleEF	MHD	161.54	73.65
tblVehicleEF	MHD	1,062.94	972.65
tblVehicleEF	MHD	54.61	8.20
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.46
tblVehicleEF	MHD	8.2600e-004	1.2200e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	9.5000e-005
tblVehicleEF	MHD	7.9000e-004	1.1680e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	8.7000e-005
tblVehicleEF	MHD	3.0890e-003	1.2990e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	6.6700e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.9800e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.3800e-004	8.1000e-005
tblVehicleEF	MHD	3.0890e-003	1.2990e-003
tblVehicleEF	MHD	0.05	0.02

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	6.6700e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.4030e-003
tblVehicleEF	MHD	3.1690e-003	3.3980e-003
tblVehicleEF	MHD	0.05	8.5100e-003
tblVehicleEF	MHD	0.48	0.42
tblVehicleEF	MHD	0.24	0.36
tblVehicleEF	MHD	5.56	0.99
tblVehicleEF	MHD	140.03	71.45
tblVehicleEF	MHD	1,062.94	972.64
tblVehicleEF	MHD	54.61	8.30
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.54
tblVehicleEF	MHD	1.1920e-003	1.7540e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	9.5000e-005
tblVehicleEF	MHD	1.1400e-003	1.6780e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	8.7000e-005
tblVehicleEF	MHD	1.1940e-003	5.2100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.7500e-004
tblVehicleEF	MHD	0.03	0.05
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Jefferson Avenue Apa	artment (Unmitigated)	- Riverside-South	Coast County, Winter

tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.34	0.05
tblVehicleEF	MHD	1.3480e-003	6.7700e-004
tblVehicleEF	MHD	0.01	9.2610e-003
tblVehicleEF	MHD	6.4300e-004	8.2000e-005
tblVehicleEF	MHD	1.1940e-003	5.2100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.2900e-004	2.7500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	OBUS	0.01	8.6690e-003
tblVehicleEF	OBUS	6.8270e-003	6.2940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.49
tblVehicleEF	OBUS	0.46	0.72
tblVehicleEF	OBUS	5.79	2.51
tblVehicleEF	OBUS	74.97	71.08
tblVehicleEF	OBUS	1,092.94	1,371.04
tblVehicleEF	OBUS	69.71	20.56
tblVehicleEF	OBUS	0.31	0.33
tblVehicleEF	OBUS	0.97	1.20
tblVehicleEF	OBUS	6.8000e-005	5.9500e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	1.9400e-004
tblVehicleEF	OBUS	6.5000e-005	5.6900e-004

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.7800e-004
tblVehicleEF	OBUS	2.1110e-003	2.6170e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1260e-003
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.2800e-004	6.7800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.0300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6170e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1260e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	0.01	8.7200e-003
tblVehicleEF	OBUS	6.9570e-003	6.4100e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.46	0.73
tblVehicleEF	OBUS	5.41	2.35
tblVehicleEF	OBUS	78.41	70.99
tblVehicleEF	OBUS	1,092.94	1,371.06

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Jefferson Avenue Apa	artment (Unmitigated)	- Riverside-South	Coast County, Winter

tblVehicleEF	OBUS	69.71	20.28
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.91	1.12
tblVehicleEF	OBUS	5.7000e-005	5.0500e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	1.9400e-004
tblVehicleEF	OBUS	5.4000e-005	4.8300e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.7800e-004
tblVehicleEF	OBUS	3.9250e-003	4.7670e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.1480e-003
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.7700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.0100e-004
tblVehicleEF	OBUS	3.9250e-003	4.7670e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.1480e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	0.01	8.6270e-003

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	OBUS	6.8060e-003	6.2600e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.50
tblVehicleEF	OBUS	0.46	0.72
tblVehicleEF	OBUS	5.84	2.54
tblVehicleEF	OBUS	70.22	71.20
tblVehicleEF	OBUS	1,092.94	1,371.03
tblVehicleEF	OBUS	69.71	20.60
tblVehicleEF	OBUS	0.29	0.33
tblVehicleEF	OBUS	0.97	1.20
tblVehicleEF	OBUS	8.2000e-005	7.1900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	1.9400e-004
tblVehicleEF	OBUS	7.9000e-005	6.8800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.7800e-004
tblVehicleEF	OBUS	1.8300e-003	2.3790e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.0720e-003
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	6.8200e-004	6.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.0400e-004
tblVehicleEF	OBUS	1.8300e-003	2.3790e-003

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.0720e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.82	0.08
tblVehicleEF	SBUS	0.01	6.3720e-003
tblVehicleEF	SBUS	0.06	7.0630e-003
tblVehicleEF	SBUS	7.82	3.08
tblVehicleEF	SBUS	0.60	0.51
tblVehicleEF	SBUS	6.53	0.94
tblVehicleEF	SBUS	1,137.52	365.13
tblVehicleEF	SBUS	1,098.11	1,104.50
tblVehicleEF	SBUS	54.55	6.09
tblVehicleEF	SBUS	9.42	3.47
tblVehicleEF	SBUS	4.31	4.62
tblVehicleEF	SBUS	9.5680e-003	3.7440e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.2000e-005
tblVehicleEF	SBUS	9.1540e-003	3.5820e-003
tblVehicleEF	SBUS	2.6910e-003	2.6500e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	3.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4040e-003
tblVehicleEF	SBUS	0.03	9.3180e-003

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	SBUS	0.93	0.36
tblVehicleEF	SBUS	2.2980e-003	6.7500e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.04
tblVehicleEF	SBUS	0.01	3.4880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.0000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4040e-003
tblVehicleEF	SBUS	0.03	9.3180e-003
tblVehicleEF	SBUS	1.33	0.52
tblVehicleEF	SBUS	2.2980e-003	6.7500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.82	0.08
tblVehicleEF	SBUS	0.01	6.4450e-003
tblVehicleEF	SBUS	0.05	5.9200e-003
tblVehicleEF	SBUS	7.71	3.04
tblVehicleEF	SBUS	0.61	0.52
tblVehicleEF	SBUS	4.73	0.68
tblVehicleEF	SBUS	1,189.12	374.76
tblVehicleEF	SBUS	1,098.11	1,104.52
tblVehicleEF	SBUS	54.55	5.66
tblVehicleEF	SBUS	9.72	3.55
tblVehicleEF	SBUS	4.05	4.35
tblVehicleEF	SBUS	8.0660e-003	3.1630e-003

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.2000e-005
tblVehicleEF	SBUS	7.7170e-003	3.0260e-003
tblVehicleEF	SBUS	2.6910e-003	2.6500e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	3.9000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5310e-003
tblVehicleEF	SBUS	0.03	9.8380e-003
tblVehicleEF	SBUS	0.92	0.36
tblVehicleEF	SBUS	4.2770e-003	1.2510e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.01	3.5790e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	5.6000e-005
tbIVehicleEF	SBUS	8.7430e-003	2.5310e-003
tbIVehicleEF	SBUS	0.03	9.8380e-003
tbIVehicleEF	SBUS	1.33	0.52
tblVehicleEF	SBUS	4.2770e-003	1.2510e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.08
tblVehicleEF	SBUS	0.01	6.3640e-003
tblVehicleEF	SBUS	0.06	7.3130e-003

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	SBUS	7.98	3.13
tblVehicleEF	SBUS	0.60	0.51
tblVehicleEF	SBUS	6.89	0.98
tblVehicleEF	SBUS	1,066.27	351.83
tblVehicleEF	SBUS	1,098.11	1,104.50
tblVehicleEF	SBUS	54.55	6.17
tblVehicleEF	SBUS	9.00	3.35
tblVehicleEF	SBUS	4.26	4.59
tblVehicleEF	SBUS	0.01	4.5460e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.2000e-005
tblVehicleEF	SBUS	0.01	4.3490e-003
tblVehicleEF	SBUS	2.6910e-003	2.6500e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	3.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.2200e-003
tblVehicleEF	SBUS	0.03	9.5110e-003
tblVehicleEF	SBUS	0.93	0.36
tblVehicleEF	SBUS	2.2070e-003	6.5000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.01	3.3620e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.1000e-005
tblVehicleEF	SBUS	4.2260e-003	1.2200e-003

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

tblVehicleEF	SBUS	0.03	9.5110e-003
tblVehicleEF	SBUS	1.34	0.52
tblVehicleEF	SBUS	2.2070e-003	6.5000e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.35
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.89	26.06
tblVehicleEF	UBUS	14.42	1.47
tblVehicleEF	UBUS	1,799.80	1,617.41
tblVehicleEF	UBUS	153.89	18.02
tblVehicleEF	UBUS	4.15	0.32
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.9840e-003
tblVehicleEF	UBUS	1.4590e-003	1.6200e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.8400e-003
tblVehicleEF	UBUS	1.3420e-003	1.4900e-004
tblVehicleEF	UBUS	9.4280e-003	1.8880e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	4.6810e-003	8.4400e-004
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.13	0.08

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Jefferson Avenue Apartment	(Unmitigated) -	 Riverside-South 	Coast County, Winter

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tblVehicleEF	UBUS	9.6700e-003	4.8660e-003			
tblVehicleEF	UBUS	1.8000e-003	1.7800e-004			
tblVehicleEF	UBUS	9.4280e-003	1.8880e-003			
tblVehicleEF	UBUS	0.11	0.01			
tblVehicleEF	UBUS	4.6810e-003	8.4400e-004			
tblVehicleEF	UBUS	1.94	3.43			
tblVehicleEF	UBUS	0.02	0.06			
tblVehicleEF	UBUS	1.23	0.08			
tblVehicleEF	UBUS	1.44	3.35			
tblVehicleEF	UBUS	0.08	0.02			
tblVehicleEF	UBUS	7.95	26.06			
tblVehicleEF	UBUS	12.35	1.25			
tblVehicleEF	UBUS	1,799.80	1,617.41			
tblVehicleEF	UBUS	153.89	17.65			
tblVehicleEF	UBUS	3.87	0.31			
tblVehicleEF	UBUS	0.49	0.09			
tblVehicleEF	UBUS	0.01	0.02			
tblVehicleEF	UBUS	0.04	2.9840e-003			
tblVehicleEF	UBUS	1.4590e-003	1.6200e-004			
tblVehicleEF	UBUS	0.21	0.04			
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003			
tblVehicleEF	UBUS	0.04	2.8400e-003			
tblVehicleEF	UBUS	1.3420e-003	1.4900e-004			
tblVehicleEF	UBUS	0.02	3.3540e-003			
tblVehicleEF	UBUS	0.13	0.01			
tblVehicleEF	UBUS	9.3920e-003	1.6790e-003			
tblVehicleEF	UBUS	0.47	0.05			
			1			

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	UBUS	0.02	0.06		
tblVehicleEF	UBUS	1.03	0.07		
tblVehicleEF	UBUS	9.6710e-003	4.8660e-003		
tblVehicleEF	UBUS	1.7640e-003	1.7500e-004		
tblVehicleEF	UBUS	0.02	3.3540e-003		
tblVehicleEF	UBUS	0.13	0.01		
tblVehicleEF	UBUS	9.3920e-003	1.6790e-003		
tblVehicleEF	UBUS	1.95	3.43		
tblVehicleEF	UBUS	0.02	0.06		
tblVehicleEF	UBUS	1.12	0.08		
tblVehicleEF	UBUS	1.44	3.35		
tblVehicleEF	UBUS	0.08	0.02		
tblVehicleEF	UBUS	7.88	26.06		
tblVehicleEF	UBUS	14.60	1.46		
tblVehicleEF	UBUS	1,799.80	1,617.41		
tblVehicleEF	UBUS	153.89	18.00		
tblVehicleEF	UBUS	4.12	0.32		
tblVehicleEF	UBUS	0.49	0.09		
tblVehicleEF	UBUS	0.01	0.02		
tblVehicleEF	UBUS	0.04	2.9840e-003		
tblVehicleEF	UBUS	1.4590e-003	1.6200e-004		
tblVehicleEF	UBUS	0.21	0.04		
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003		
tblVehicleEF	UBUS	0.04	2.8400e-003		
tblVehicleEF	UBUS	1.3420e-003	1.4900e-004		
tblVehicleEF	UBUS	8.6090e-003	1.9290e-003		
tblVehicleEF	UBUS	0.13	0.01		

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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tblVehicleEF	UBUS	4.2750e-003	8.8500e-004
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.13	0.08
tblVehicleEF	UBUS	9.6700e-003	4.8660e-003
tblVehicleEF	UBUS	1.8030e-003	1.7800e-004
tblVehicleEF	UBUS	8.6090e-003	1.9290e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.2750e-003	8.8500e-004
tblVehicleEF	UBUS	1.94	3.43
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.24	0.08
tblVehicleTrips	ST_TR	6.39	8.14
tblVehicleTrips	SU_TR	5.86	6.28
tblVehicleTrips	WD_TR	6.65	7.33
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00

2.0 Emissions Summary

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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/d	day							lb/d	lay		
2021	5.4265	60.8364	25.3780	0.0821	23.5700	2.6472	26.2171	10.5566	2.4354	12.9920	0.0000	8,293.799 1	8,293.799 1	1.7904	0.0000	8,334.603 3
2022	59.1575	48.0058	42.8356	0.1070	3.2679	1.9761	5.2440	0.8744	1.8439	2.7182	0.0000	10,486.33 33	10,486.33 33	2.0151	0.0000	10,536.711 6
Maximum	59.1575	60.8364	42.8356	0.1070	23.5700	2.6472	26.2171	10.5566	2.4354	12.9920	0.0000	10,486.33 33	10,486.33 33	2.0151	0.0000	10,536.71 16

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Tota	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/	'day							lb/	'day		
2021	5.4265	60.8364	25.3780	0.0821	9.3150	2.6472	11.9622	4.1496	2.4354	6.5850	0.0000	8,293.799 1	8,293.799 1	1.7904	0.0000	8,334.603 3
2022	59.1575	48.0058	42.8356	0.1070	3.2679	1.9761	5.2440	0.8744	1.8439	2.7182	0.0000	10,486.33 33	10,486.33 33	2.0151	0.0000	10,536.71 16
Maximum	59.1575	60.8364	42.8356	0.1070	9.3150	2.6472	11.9622	4.1496	2.4354	6.5850	0.0000	10,486.33 33	10,486.33 33	2.0151	0.0000	10,536.71 16
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.12	0.00	45.31	56.05	0.00	40.78	0.00	0.00	0.00	0.00	0.00	0.00

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Area	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878		0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6
Energy	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
Mobile	3.1636	14.6358	29.0403	0.1043	9.4786	0.1350	9.6136	2.5339	0.1278	2.6617		10,724.90 31	10,724.90 31	0.3819		10,734.45 00
Total	7.4607	17.8527	43.6016	0.1245	9.4786	0.4559	9.9345	2.5339	0.4487	2.9826	0.0000	14,660.40 23	14,660.40 23	0.4800	0.0717	14,693.77 34

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day				lb/d	lay					
Area	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878		0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6
Energy	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
Mobile	3.1636	14.6358	29.0403	0.1043	9.4786	0.1350	9.6136	2.5339	0.1278	2.6617		10,724.90 31	10,724.90 31	0.3819		10,734.45 00
Total	7.4607	17.8527	43.6016	0.1245	9.4786	0.4559	9.9345	2.5339	0.4487	2.9826	0.0000	14,660.40 23	14,660.40 23	0.4800	0.0717	14,693.77 34

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2021	5/14/2021	5	10	
2	Grading	Grading	5/15/2021	12/22/2021	5	158	
3	Building Construction	Building Construction	12/23/2021	8/31/2022	5	180	
4	Paving	Paving	8/4/2022	8/31/2022	5	20	
5	Architectural Coating	Architectural Coating	8/4/2022	8/31/2022	5	20	

Acres of Grading (Site Preparation Phase): 50

Acres of Grading (Grading Phase): 790

Acres of Paving: 4.97

Residential Indoor: 324,000; Residential Outdoor: 108,000; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 12,990 (Architectural Coating – sqft)

OffRoad Equipment

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	3	8.00	212	0.43
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	7,908.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	206.00	53.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					23.3688	0.0000	23.3688	10.5032	0.0000	10.5032			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343		5,523.504 7	5,523.504 7	1.7864		5,568.165 1
Total	5.3428	60.7861	21.8537	0.0570	23.3688	2.6460	26.0148	10.5032	2.4343	12.9376		5,523.504 7	5,523.504 7	1.7864		5,568.165 1

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.2 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0838	0.0503	0.5372	1.7200e- 003	0.2012	1.1900e- 003	0.2024	0.0534	1.0900e- 003	0.0545		171.9348	171.9348	3.9700e- 003		172.0342
Total	0.0838	0.0503	0.5372	1.7200e- 003	0.2012	1.1900e- 003	0.2024	0.0534	1.0900e- 003	0.0545		171.9348	171.9348	3.9700e- 003		172.0342

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					9.1138	0.0000	9.1138	4.0963	0.0000	4.0963			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460	 	2.4343	2.4343	0.0000	5,523.504 7	5,523.504 7	1.7864		5,568.165 1
Total	5.3428	60.7861	21.8537	0.0570	9.1138	2.6460	11.7598	4.0963	2.4343	6.5306	0.0000	5,523.504 7	5,523.504 7	1.7864		5,568.165 1

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0838	0.0503	0.5372	1.7200e- 003	0.2012	1.1900e- 003	0.2024	0.0534	1.0900e- 003	0.0545		171.9348	171.9348	3.9700e- 003		172.0342
Total	0.0838	0.0503	0.5372	1.7200e- 003	0.2012	1.1900e- 003	0.2024	0.0534	1.0900e- 003	0.0545		171.9348	171.9348	3.9700e- 003		172.0342

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Fugitive Dust					11.3721	0.0000	11.3721	3.8900	0.0000	3.8900			0.0000			0.0000
Off-Road	3.3813	39.9534	16.3820	0.0439	 	1.6111	1.6111		1.4822	1.4822		4,250.314 4	4,250.314 4	1.3746	 	4,284.680 3
Total	3.3813	39.9534	16.3820	0.0439	11.3721	1.6111	12.9832	3.8900	1.4822	5.3722		4,250.314 4	4,250.314 4	1.3746		4,284.680 3

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.3 Grading - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.2564	10.9525	1.6688	0.0367	0.8755	0.0336	0.9091	0.2400	0.0322	0.2722		3,900.205 7	3,900.205 7	0.2542		3,906.561 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0419	0.4476	1.4400e- 003	0.1677	9.9000e- 004	0.1687	0.0445	9.1000e- 004	0.0454		143.2790	143.2790	3.3100e- 003		143.3618
Total	0.3262	10.9944	2.1164	0.0382	1.0432	0.0346	1.0778	0.2845	0.0331	0.3175		4,043.484 7	4,043.484 7	0.2575		4,049.923 0

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Fugitive Dust					4.4351	0.0000	4.4351	1.5171	0.0000	1.5171			0.0000			0.0000
Off-Road	3.3813	39.9534	16.3820	0.0439		1.6111	1.6111		1.4822	1.4822	0.0000	4,250.314 4	4,250.314 4	1.3746		4,284.680 3
Total	3.3813	39.9534	16.3820	0.0439	4.4351	1.6111	6.0462	1.5171	1.4822	2.9993	0.0000	4,250.314 4	4,250.314 4	1.3746		4,284.680 3

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.3 Grading - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.2564	10.9525	1.6688	0.0367	0.8755	0.0336	0.9091	0.2400	0.0322	0.2722		3,900.205 7	3,900.205 7	0.2542		3,906.561 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0419	0.4476	1.4400e- 003	0.1677	9.9000e- 004	0.1687	0.0445	9.1000e- 004	0.0454		143.2790	143.2790	3.3100e- 003		143.3618
Total	0.3262	10.9944	2.1164	0.0382	1.0432	0.0346	1.0778	0.2845	0.0331	0.3175		4,043.484 7	4,043.484 7	0.2575		4,049.923 0

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.4297	4,114.4297	1.1209		4,142.452 0
Total	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.429 7	4,114.429 7	1.1209		4,142.452 0

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.4 Building Construction - 2021 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1314	4.8623	1.0352	0.0132	0.3394	9.6100e- 003	0.3490	0.0977	9.1900e- 003	0.1069		1,393.758 1	1,393.758 1	0.1154	 	1,396.644 2
Worker	0.9584	0.5754	6.1477	0.0197	2.3026	0.0136	2.3162	0.6107	0.0125	0.6232		1,967.698 7	1,967.698 7	0.0455	 	1,968.835 5
Total	1.0898	5.4377	7.1828	0.0330	2.6420	0.0232	2.6652	0.7084	0.0217	0.7301		3,361.456 8	3,361.456 8	0.1609		3,365.479 6

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775	0.0000	4,114.4297	4,114.4297	1.1209		4,142.452 0
Total	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775	0.0000	4,114.429 7	4,114.429 7	1.1209		4,142.452 0

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.4 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1314	4.8623	1.0352	0.0132	0.3394	9.6100e- 003	0.3490	0.0977	9.1900e- 003	0.1069		1,393.758 1	1,393.758 1	0.1154	 	1,396.644 2
Worker	0.9584	0.5754	6.1477	0.0197	2.3026	0.0136	2.3162	0.6107	0.0125	0.6232		1,967.698 7	1,967.698 7	0.0455	 	1,968.835 5
Total	1.0898	5.4377	7.1828	0.0330	2.6420	0.0232	2.6652	0.7084	0.0217	0.7301		3,361.456 8	3,361.456 8	0.1609		3,365.479 6

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.5322	4,110.5322	1.1153		4,138.413 5
Total	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.532 2	4,110.532 2	1.1153		4,138.413 5

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.4 Building Construction - 2022 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1227	4.5810	0.9663	0.0131	0.3394	8.1000e- 003	0.3475	0.0977	7.7400e- 003	0.1055		1,381.588 8	1,381.588 8	0.1095	 	1,384.325 0
Worker	0.8991	0.5176	5.6618	0.0190	2.3026	0.0132	2.3158	0.6107	0.0122	0.6228		1,895.898 1	1,895.898 1	0.0409	 	1,896.920 3
Total	1.0218	5.0986	6.6281	0.0321	2.6420	0.0213	2.6633	0.7084	0.0199	0.7283		3,277.486 9	3,277.486 9	0.1503		3,281.245 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.5322	4,110.5322	1.1153		4,138.413 5
Total	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.532 2	4,110.532 2	1.1153		4,138.413 5

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.4 Building Construction - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1227	4.5810	0.9663	0.0131	0.3394	8.1000e- 003	0.3475	0.0977	7.7400e- 003	0.1055		1,381.588 8	1,381.588 8	0.1095	 	1,384.325 0
Worker	0.8991	0.5176	5.6618	0.0190	2.3026	0.0132	2.3158	0.6107	0.0122	0.6228		1,895.898 1	1,895.898 1	0.0409	 	1,896.920 3
Total	1.0218	5.0986	6.6281	0.0321	2.6420	0.0213	2.6633	0.7084	0.0199	0.7283		3,277.486 9	3,277.486 9	0.1503		3,281.245 3

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.6511				 	0.0000	0.0000	 	0.0000	0.0000		1	0.0000		 	0.0000
Total	1.7539	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.5 Paving - 2022

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0377	0.4123	1.3800e- 003	0.1677	9.6000e- 004	0.1686	0.0445	8.9000e- 004	0.0454		138.0508	138.0508	2.9800e- 003		138.1253
Total	0.0655	0.0377	0.4123	1.3800e- 003	0.1677	9.6000e- 004	0.1686	0.0445	8.9000e- 004	0.0454		138.0508	138.0508	2.9800e- 003		138.1253

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.1028	11.1249	14.5805	0.0228	! !	0.5679	0.5679	i i	0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.6511	 	 		 	0.0000	0.0000	i i	0.0000	0.0000		i i	0.0000			0.0000
Total	1.7539	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660	0.7140		2,225.510 4

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.5 Paving - 2022 <u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0377	0.4123	1.3800e- 003	0.1677	9.6000e- 004	0.1686	0.0445	8.9000e- 004	0.0454		138.0508	138.0508	2.9800e- 003		138.1253
Total	0.0655	0.0377	0.4123	1.3800e- 003	0.1677	9.6000e- 004	0.1686	0.0445	8.9000e- 004	0.0454		138.0508	138.0508	2.9800e- 003		138.1253

3.6 Architectural Coating - 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/d	day							lb/c	lay		
Archit. Coating	53.0684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e- 003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244	 	375.8749
Total	53.3412	1.8780	2.4181	3.9600e- 003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.6 Architectural Coating - 2022 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	 	0.0000
Worker	0.1790	0.1030	1.1269	3.7800e- 003	0.4583	2.6300e- 003	0.4609	0.1215	2.4200e- 003	0.1240		377.3389	377.3389	8.1400e- 003	 	377.5424
Total	0.1790	0.1030	1.1269	3.7800e- 003	0.4583	2.6300e- 003	0.4609	0.1215	2.4200e- 003	0.1240		377.3389	377.3389	8.1400e- 003		377.5424

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	53.0684		1 1 1			0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e- 003	 	0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	53.3412	1.8780	2.4181	3.9600e- 003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

3.6 Architectural Coating - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	 	0.0000
Worker	0.1790	0.1030	1.1269	3.7800e- 003	0.4583	2.6300e- 003	0.4609	0.1215	2.4200e- 003	0.1240		377.3389	377.3389	8.1400e- 003	 	377.5424
Total	0.1790	0.1030	1.1269	3.7800e- 003	0.4583	2.6300e- 003	0.4609	0.1215	2.4200e- 003	0.1240		377.3389	377.3389	8.1400e- 003		377.5424

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Mitigated	3.1636	14.6358	29.0403	0.1043	9.4786	0.1350	9.6136	2.5339	0.1278	2.6617		10,724.90 31	10,724.90 31	0.3819		10,734.45 00
Unmitigated	3.1636	14.6358	29.0403	0.1043	9.4786	0.1350	9.6136	2.5339	0.1278	2.6617		10,724.90 31	10,724.90 31	0.3819		10,734.45 00

4.2 Trip Summary Information

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,172.00	1,302.40	1004.80	3,986,938	3,986,938
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,172.00	1,302.40	1,004.80	3,986,938	3,986,938

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

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/d	day							lb/d	day		
NaturalGas Mitigated	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
NaturalGas Unmitigated	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332	i i	0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s 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/d	day							lb/c	lay		
Apartments Mid Rise	4448.93	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138

Mitigated

	NaturalGa s 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/d	day							lb/c	lay		
Apartments Mid Rise	4.44893	0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000]	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0480	0.4100	0.1745	2.6200e- 003		0.0332	0.0332		0.0332	0.0332		523.4035	523.4035	0.0100	9.6000e- 003	526.5138

6.0 Area Detail

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

6.1 Mitigation Measures Area

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Mitigated	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878	i i i	0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6
Unmitigated	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878	i i	0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

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/d	day							lb/d	day		
Architectural Coating	0.2908					0.0000	0.0000	i i i	0.0000	0.0000			0.0000		 	0.0000
Consumer Products	3.2447		 	 		0.0000	0.0000	 	0.0000	0.0000			0.0000	 	 	0.0000
Hearth	0.3106	2.6541	1.1294	0.0169		0.2146	0.2146	 	0.2146	0.2146	0.0000	3,388.235 3	3,388.235 3	0.0649	0.0621	3,408.369 9
Landscaping	0.4031	0.1528	13.2574	7.0000e- 004		0.0732	0.0732		0.0732	0.0732		23.8604	23.8604	0.0232	 	24.4397
Total	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878		0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6

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Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	lay		
Architectural Coating	0.2908					0.0000	0.0000	i i i	0.0000	0.0000			0.0000		i i i	0.0000
Consumer Products	3.2447		 	 		0.0000	0.0000	 	0.0000	0.0000			0.0000		 	0.0000
Hearth	0.3106	2.6541	1.1294	0.0169		0.2146	0.2146	 	0.2146	0.2146	0.0000	3,388.235 3	3,388.235 3	0.0649	0.0621	3,408.369 9
Landscaping	0.4031	0.1528	13.2574	7.0000e- 004		0.0732	0.0732	1 	0.0732	0.0732		23.8604	23.8604	0.0232		24.4397
Total	4.2492	2.8069	14.3868	0.0176		0.2878	0.2878		0.2878	0.2878	0.0000	3,412.095 7	3,412.095 7	0.0881	0.0621	3,432.809 6

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
1-1 - 71 -			, , , , , , , , , , , , , , , , , , , ,			71 -

10.0 Stationary Equipment

Jefferson Avenue Apartment (Unmitigated) - Riverside-South Coast County, Winter

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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APPENDIX 3.2:

EMFAC 2017



Season	Pollutant	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	мн
Annual	CH4_IDLEX	0	0	0	0	0.00476	0.003086172	0.003174177	0.02768546	0.0086691	0	0	0.0782841	0
Annual	CH4_RUNEX	0.0021672	0.0069373	0.0037846	0.0049044	0.0048385	0.003554572	0.003414852	0.017275139	0.0062937	3.3501486	0.3170324		0.0032766
Annual	CH4_STREX	0.0476739	0.0784826	0.0668887	0.08326	0.0145321	0.008467146	0.008435748	1.51789E-07	0.0235136	0.0194891	0.2408356	0.0070631	0
Annual Annual	CO_IDLEX CO_RUNEX	0 0.6127146	0 1.4345993	0 0.9006216	0 1.0486613	0.170737 0.6565262	0.132367715 0.484534557	0.344728135 0.36085593	7.943012069 0.252949708	0.4906788 0.7194796	26.057861	0 19.260278	3.0779477 0.5118083	0 0 3312428
Annual	CO_STREX	2.065549	2.3364452	2.6410671	3.1034102	0.9280929	0.538036666	0.980965828	0.002730737	2.5089396		8.5696296	0.935813	0
Annual	CO2_NBIO_IDLEX	0	0	0	0	9.3776146	14.76607318	72.72760877	1427.187872	71.079491	0	0	365.12708	0
Annual	CO2_NBIO_RUNEX	258.04994	308.05569	326.5706	407.96475	632.12681	631.1137815	972.6434572	1313.576376	1371.0406		208.18642		
Annual	CO2_NBIO_STREX	53.139161	64.702294	68.910244 0	85.751017 0	10.362455	7.159053861	8.274617751	0.022047416	20.559852	18.022878	60.410771	6.0896268	0
Annual Annual	NOX_IDLEX NOX_RUNEX	0 0.0350077	0 0.1243465	0.0776735	0.1027168	0.0819015 1.4552093	0.119466641 1.608191746	0.567155137 1.550250158	7.335263156 2.566194348	0.3253739	0.3184419	0 1.124255	3.4688385 4.6230458	4.292811
Annual	NOX_STREX ³	0.1764012	0.2804168	0.2796034	0.3577834	0.2983964	0.184277782	1.379935146	2.168587756	0.6632343		0.2613388	0.7523934	0
Annual	PM10 IDLEX	0	0	0	0	0.0009791	0.001448469	0.001444286	0.003444697	0.0005949	0	0	0.0037437	0
Annual	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061034025	0.13034	0.0878825	0.01176	0.7448002	0.13034
Annual	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100156	0.010851997	0.012000003	0.035585639		0.0219127	0.004	0.0106008	0.016
Annual	PM10_RUNEX	0.0013737 0.0018359	0.0020964	0.0014268	0.0014933 0.0019526	0.0104672	0.013547787	0.045037982	0.033346635	0.0172326 0.0001937	0.0029836 0.0001617	0.0018042	0.0272604	
Annual Annual	PM10_STREX PM25_IDLEX	0.0018359	0.002732 0	0.0018753 0	0.0019526	0.0002227 0.0009367	0.000109708 0.001385809	9.51357E-05 0.001381807	3.07502E-07 0.003295681	0.0001937	0.0001617	0.0028472	4.196E-05 0.0035817	0
Annual	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026157439	0.05586	-	0.00504	0.3192001	0.05586
Annual	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025039	0.002712999	0.003000001	0.00889641	0.003	0.0054782	0.001	0.0026502	0.004
Annual	PM25_RUNEX	0.0012655	0.0019294	0.0013133	0.0013773	0.0099949	0.012952022	0.043086186	0.031904068	0.0164734		0.001687	0.0260711	
Annual	PM25_STREX	0.0016881	0.0025121	0.0017244	0.0017956	0.0002048	0.000100873	8.74738E-05	2.82737E-07	0.0001781		0.0026792	3.858E-05	0
Annual Annual	ROG_DIURN	0.0654434 0.0965137	0.2074459 0.2519363	0.1065577 0.133428	0.1287369 0.1641941	0.0030174 0.0765635	0.001611018 0.041007681	0.000679383 0.019892065	1.71295E-06 6.0205E-05	0.0026173 0.0239176	0.001888 0.0118984	1.6649874 0.8398377	0.0014042 0.0093177	0
Annual	ROG_HTSK ROG_IDLEX	0.0303137	0.2313303	0.133428	0.1041541	0.0203483	0.015826332	0.013632003	0.569395343	0.0233170	0.0118384	0.8338377	0.3625318	0
Annual	ROG_RESTL	0.0502801	0.1409889	0.0861787	0.1095131	0.0014956	0.000817601	0.000341601	1.03138E-06	0.0011263	0.0008437	0.9038479	0.0006746	0
Annual	ROG_RUNEX	0.0081892	0.030384	0.0152412	0.0204125	0.0565146	0.057381188	0.053525912	0.041578666	0.0493867	0.0536618	2.1366098	0.0919902	0.0705425
Annual	ROG_RUNLS	0.204645	0.801424	0.4267449	0.4869566	0.4743267	0.234310538	0.098964045	0.000274816	0.2625007	0.0587151	1.8216391	0.0571636	0
Annual	ROG_STREX	0.2075385 0	0.3946608	0.3058225	0.4061617 0	0.0719497	0.041414067	0.044917328 0.000689683	7.78525E-07	0.1215682 0.0006781	0.0759277	1.819356	0.040709	0
Annual Annual	SO2_IDLEX SO2_RUNEX	0.0025528	0.0030484	0.0032309	0.0040335	9.063E-05 0.0061483	0.000140979 0.006080701	0.000689683	0.013447842 0.012309997		0.0048656	0.0020602	0.0034877 0.0105737	
Annual	SO2_ROTEX	0.0005259	0.0006403	0.0006819	0.0008486	0.0001105	7.08446E-05	8.18841E-05	2.18177E-07	0.0002035	0.0001784	0.0005978	6.026E-05	0
Annual	TOG_DIURN	0.065463	0.2075081	0.1065897	0.1287755	0.0030174	0.001611018	0.000679383	1.71295E-06	0.0026173	0.001888	1.6649874	0.0014042	0
Annual	TOG_HTSK	0.0965426	0.2520118	0.133468	0.1642433	0.0765635	0.041007681	0.019892065	6.0205E-05	0.0239176	0.0118984	0.8398377	0.0093177	0
Annual	TOG_IDLEX	0	0	0	0	0.0284265	0.021226928	0.024617086	0.649459458	0.0646332	0	0	0.5223562	0
Annual Annual	TOG_RESTL TOG_RUNEX	0.0502952 0.0119104	0.1410312 0.0443102	0.0862045 0.0222085	0.109546 0.0296613	0.0014956 0.0686199	0.000817601 0.066865959	0.000341601 0.062759275	1.03138E-06 0.062792049	0.0011263 0.0639259		0.9038479 2.6360456	0.0006746 0.1089679	0 0.0803079
Annual	TOG_RUNLS	0.2047064	0.8016644	0.4268729	0.4871027	0.4743267	0.234310538	0.002753275	0.002732043		0.0587151	1.8216391	0.0571636	0.0803079
Annual	TOG_STREX	0.2273185	0.432275	0.3349703	0.4448692	0.0787759	0.045343191	0.049178821	8.52387E-07	0.1331018		1.97991	0.0445712	0
Summer	CH4_IDLEX	0	0	0	0	0.0047722	0.003093494	0.003015407	0.029066631	0.0087199	0	0	0.0783785	0
Summer	CH4_RUNEX	0.0024688	0.0078397	0.0043031	0.0055887	0.0049165	0.003580253	0.003439025	0.017275414		3.3501828	0.3151479	0.0064447	
Summer Summer	CH4_STREX	0.0419923	0.068759 0	0.0589332	0.0732324	0.0140227 0.170737	0.008182907 0.132367715	0.008156718 0.289552963	1.45574E-07 7.793578643	0.022517	0.0177218	0.2159857	0.00592 3.0396373	0
Summer	CO_IDLEX CO_RUNEX		1.7391064	1.1022984	1.2798628	0.170737	0.132367715	0.289552963	0.253042874		26.059528	19.917961	0.5196525	
Summer	CO_STREX	1.8228671	2.0681284	2.3374451	2.7304481	0.884658	0.514099752	0.93553678	0.002585476	2.3452643	1.2497059	8.0012706	0.6770521	0
Summer	CO2_NBIO_IDLEX	0	0	0	0	9.3776146	14.76607318	73.64661467	1418.265925	70.991999	0	0	374.7585	0
Summer	CO2_NBIO_RUNEX		332.03628	349.63134	432.45324	632.14294	631.118682	972.6484749	1313.576531		1617.4114	209.15451	1104.5176	
Summer	CO2_NBIO_STREX	52.666978	64.107443	68.300845	84.987903	10.284432	7.116057415	8.197097626	0.021817066		17.650976	58.855399	5.657149	0
Summer Summer	NOX_IDLEX NOX_RUNEX	0 0.032638	0 0.1156128	0 0.0727819	0 0.0959636	0.0819015 1.3700514	0.119466641 1.518145094	0.569484751 1.460166463	7.066284455 2.422658244	0.3186574 1.1238924	0 0.311698	0 0.9768901	3.5541825 4.3483712	0 4.0509449
Summer	NOX_STREX ³	0.1696841	0.2700173	0.2699484	0.3444272	0.2880039	0.178221077	1.377187762	2.168583479	0.654024		0.2473827	0.7476747	0
Summer	PM10_IDLEX	0	0	0	0	0.0009791	0.001448469	0.001220348	0.003068269	0.0005052	0	0.2173027	0.0031629	0
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061034025	0.13034	0.0878825	0.01176	0.7448002	0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100156	0.010851997	0.012000003	0.035585639		0.0219127	0.004	0.0106008	0.016
Summer	PM10_RUNEX	0.0013737 0.0018359	0.0020964	0.0014268	0.0014933	0.0104672	0.013547787	0.045037982	0.033346635		0.0029836	0.0018042	0.0272604	
Summer Summer	PM10_STREX PM25_IDLEX	0.0018359	0.002732 0	0.0018753	0.0019526	0.0002227 0.0009367	0.000109708 0.001385809	9.51357E-05 0.001167557	3.07502E-07 0.002935537	0.0001937 0.0004834	0.0001617	0.0028472	4.196E-05 0.0030261	0
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026157439		0.0376639	0.00504	0.3192001	0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025039	0.002712999	0.003000001	0.00889641		0.0054782	0.001		0.004
Summer	PM25_RUNEX	0.0012655	0.0019294	0.0013133	0.0013773	0.0099949	0.012952022	0.043086186	0.031904068	0.0164734		0.001687	0.0260711	0.1331376
Summer	PM25_STREX	0.0016881	0.0025121		0.0017956	0.0002048	0.000100873	8.74738E-05	2.82737E-07	0.0001781		0.0026792	3.858E-05	0
Summer Summer	ROG_DIURN ROG_HTSK	0.1267051 0.1127669	0.4031201 0.3100492	0.2066161 0.1573323	0.2484257 0.1890667	0.0056443 0.089847	0.00303834 0.048775819	0.001298832 0.023889516	3.2594E-06 6.68663E-05	0.0047669	0.0033544	3.2944125 1.238049	0.0025313 0.0098383	0
Summer	ROG_IDLEX	0.1127669	0.3100492	0.15/3323	0.1890667	0.089847	0.048775819	0.023889516	0.598069265	0.0263607	0.0139052	1.238049	0.0098383	0
Summer	ROG_RESTL			0.1596087	0.2005778	0.0028599	0.001554352	0.00066673	2.13978E-06		0.0016794	2.0495237	0.0012509	0
Summer	ROG_RUNEX	0.0092541	0.0343054	0.0172568	0.0231734	0.0569157	0.057492004	0.053637767	0.041580244	0.0499346	0.0537583	2.1151759	0.0923442	0.0705425
Summer	ROG_RUNLS	0.2042959	0.8044012	0.4280749	0.4882358	0.4793	0.237665599	0.101096731	0.000278959	0.2637751		1.8183574	0.0527779	0
Summer	ROG_STREX	0.1813054	0.3439704	0.2674473	0.3546891	0.0692162	0.039908173	0.043275287	7.48643E-07		0.0689344	1.6224376	0.0340588	0
Summer Summer	SO2_IDLEX SO2_RUNEX	0 0027758	0 0.0032857	0 0.0034591	0 0.0042758	9.063E-05 0.0061485	0.000140979 0.00608075	0.000698475 0.009261583	0.013363706 0.012309999	0.0006773	0.0048656	0 0.0020698	0.0035786 0.0105738	0 0088386
Summer	SO2_KONEX SO2_STREX	0.0027738	0.0032837	0.0034331	0.00042738	0.0001483	7.04192E-05	8.11169E-05	2.15898E-07		0.0048030	0.0020038	5.598E-05	0.0086380
Summer	TOG_DIURN	0.126743	0.403241	0.206678	0.2485002	0.0056443	0.00303834	0.001298832	3.2594E-06		0.0033544	3.2944125	0.0025313	0
Summer	TOG_HTSK		0.3101422	0.1573795	0.1891234	0.089847	0.048775819	0.023889516	6.68663E-05		0.0139052	1.238049	0.0098383	0
Summer	TOG_IDLEX	0	0	0	0	0.0284265	0.021226928	0.023639496	0.682152031	0.0653224	0		0.5219759	0
Summer	TOG_RESTL			0.1596565	0.200638	0.0028599	0.001554352	0.00066673	2.13978E-06		0.0016794	2.0495237	0.0012509	0 0902070
Summer Summer	TOG_RUNEX TOG_RUNLS		0.0500283 0.8046425	0.0251482 0.4282033	0.0336776 0.4883822	0.0692052 0.4793	0.067027662 0.237665599	0.062922493 0.101096731	0.062794352 0.000278959		3.4256581 0.0569044	2.6110591 1.8183574	0.1094844 0.0527779	0.0803079
Summer	TOG_STREX		0.3767534		0.3884911	0.4793		0.101030731	8.1967E-07			1.7656611		0
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Winter	CH4_IDLEX	0	0	0	0	0.0047593	0.003084658	0.003403239	0.024605361	0.008627	0	0	0.07828	0
Winter	CH4_RUNEX	0.0020915	0.0066724	0.0036323	0.0047073	0.0048278	0.003547465	0.003397793	0.001906046	0.0062595	3.3501517	0.3163156	0.0063643	0.0032766
Winter	CH4_STREX	0.0487824	0.0805792	0.0687218	0.0853755	0.0145567	0.008528518	0.00851031	1.52512E-07	0.0236848	0.0193934	0.2415612	0.0073135	0
Winter	CO_IDLEX	0	0	0	0	0.170737	0.132367715	0.421718191	8.127235494	0.5043123	0	0	3.1308526	0
Winter	CO_RUNEX	0.5747453	1.3424474	0.8396113	0.9795091	0.6553122	0.483748656	0.358914553	0.207284137	0.7158608	26.058007	18.797255	0.5112608	0.3312428
Winter	CO_STREX	2.1061362	2.392733	2.7076271	3.1738768	0.9302569	0.542835086	0.994190522	0.002719541	2.5350771	1.4569531	8.513581	0.9814253	0
Winter	CO2_NBIO_IDLEX	0	0	0	0	9.3776146	14.76607318	71.45386491	1435.726389	71.200313	0	0	351.82656	0
Winter	CO2_NBIO_RUNEX	251.86213	300.77659	319.56537	400.61488	632.12463	631.1123978	972.6400467	1302.973393	1371.0342	1617.4086	207.43365	1104.5027	934.95081
Winter	CO2_NBIO_STREX	53.221057	64.826424	69.044789	85.898116	10.366261	7.16774278	8.297203395	0.022029682	20.604013	18.001613	60.333867	6.166576	0
Winter	NOX_IDLEX	0	0	0	0	0.0819015	0.119466641	0.563937411	7.684374897	0.3346491	0	0	3.3509826	0
Winter	NOX_RUNEX	0.0336961	0.1205696	0.075195	0.0993228	1.4383317	1.592011933	1.536288298	2.541683794	1.1975503	0.3169249	1.1177884	4.5868991	4.2490061
Winter	NOX_STREX ³	0.1766698	0.2812641	0.2804573	0.3585435	0.2973477	0.184841124	1.380490767	2.168589738	0.6629623	0.179725	0.2619826	0.7532786	0
Winter	PM10_IDLEX	0	0	0	0	0.0009791	0.001448469	0.001753533	0.00392244	0.0007188	0	0	0.0045457	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060831034	0.13034	0.0878825	0.01176	0.7448002	0.13034
Winter	PM10 PMTW	0.008	0.008	0.008	0.008	0.0100156	0.010851997	0.012000003	0.035467277	0.012	0.0219127	0.004	0.0106008	0.016
Winter	PM10_RUNEX	0.0013737	0.0020964	0.0014268	0.0014933	0.0104672	0.013547787	0.045037982	0.033329147	0.0172326	0.0029836	0.0018042	0.0272604	0.1391575
Winter	PM10_STREX	0.0018359	0.002732	0.0018753	0.0019526	0.0002227	0.000109708	9.51357E-05	3.07502E-07	0.0001937	0.0001617	0.0028472	4.196E-05	0
Winter	PM25_IDLEX	0	0	0	0	0.0009367	0.001385809	0.001677676	0.003752757	0.0006877	0	0	0.004349	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026070443	0.05586	0.0376639	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025039	0.002712999	0.003000001	0.008866819	0.003	0.0054782	0.001	0.0026502	0.004
Winter	PM25_RUNEX	0.0012655	0.0019294	0.0013133	0.0013773	0.0099949	0.012952022	0.043086186	0.031887336	0.0164734	0.0028395	0.001687	0.0260711	0.1331376
Winter	PM25_STREX	0.0016881	0.0025121	0.0017244	0.0017956	0.0002048	0.000100873	8.74738E-05	2.82737E-07	0.0001781	0.0001487	0.0026792	3.858E-05	0
Winter	ROG_DIURN	0.0529162	0.1738684	0.0835297	0.1001343	0.0026632	0.001255809	0.000520787	1.66009E-06	0.0023786	0.0019295	1.5903864	0.0012196	0
Winter	ROG_HTSK	0.102621	0.2771126	0.1420345	0.1731745	0.0865167	0.044392712	0.02075017	6.68739E-05	0.0252386	0.0133762	1.03287	0.0095108	0
Winter	ROG_IDLEX	0	0	0	0	0.0203483	0.015826332	0.019557898	0.529746686	0.0477574	0	0	0.3629932	0
Winter	ROG_RESTL	0.0424847	0.118153	0.0723596	0.0934929	0.001358	0.000680064	0.000274554	1.0549E-06	0.0010721	0.000885	0.7327931	0.0006497	0
Winter	ROG_RUNEX	0.0079078	0.0292057	0.0146301	0.0195868	0.0564549	0.057349211	0.053448632	0.040800662	0.0492296	0.0536711	2.1314623	0.0919629	0.0705425
Winter	ROG_RUNLS	0.2297926	0.927046	0.4890313	0.5547477	0.5082916	0.251435543	0.106705347	0.000291515	0.2788683	0.0689118	2.0706985	0.0694502	0
Winter	ROG_STREX	0.2127976	0.4050984	0.3145188	0.416756	0.0720615	0.041736737	0.045401006	7.81824E-07	0.1223817	0.0755289	1.8229159	0.0420944	0
Winter	SO2_IDLEX	0	0	0	0	9.063E-05	0.000140979	0.000677497	0.013564031	0.0006793	0	0	0.003362	0
Winter	SO2_RUNEX	0.0024915	0.0029764	0.0031616	0.0039608	0.0061483	0.006080687	0.0092615	0.012309997	0.0133293	0.0048656	0.0020527	0.0105737	0.0088386
Winter	SO2_STREX	0.0005267	0.0006415	0.0006833	0.00085	0.0001026	7.09306E-05	8.21076E-05	2.18002E-07	0.0002039	0.0001781	0.0005971	6.102E-05	0
Winter	TOG_DIURN	0.052932	0.1739205	0.0835548	0.1001643	0.0026632	0.001255809	0.000520787	1.66009E-06	0.0023786	0.0019295	1.5903864	0.0012196	0
Winter	TOG_HTSK	0.1026517	0.2771958	0.1420771	0.1732265	0.0865167	0.044392712	0.02075017	6.68739E-05	0.0252386	0.0133762	1.03287	0.0095108	0
Winter	TOG_IDLEX	0	0	0	0	0.0284265	0.021226928	0.025984929	0.603076277	0.0636815	0	0	0.5228815	0
Winter	TOG_RESTL	0.0424975	0.1181884	0.0723813	0.0935209	0.001358	0.000680064	0.000274554	1.0549E-06	0.0010721	0.000885	0.7327931	0.0006497	0
Winter	TOG_RUNEX	0.0115	0.0425922	0.0213174	0.0284611	0.0685328	0.066819299	0.062646508	0.046470476	0.0636966	3.4255307	2.6297037	0.1089281	0.0803079
Winter	TOG_RUNLS	0.2298616	0.9273241	0.489178	0.5549142	0.5082916	0.251435543	0.106705347	0.000291515	0.2788683	0.0689118	2.0706985	0.0694502	0
Winter	TOG_STREX	0.2330789	0.4437074	0.3444955	0.4564732	0.0788983	0.045696473	0.049708387	8.55999E-07	0.1339925	0.0826946	1.9838052	0.0460881	0

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

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

3 Because EMFAC2017 provides vehicle trips data for MHDT and HHDT diesel trucks, the formula provided in Appendix A of the CalEEMod User's Guide in calculating the NO x STREX emission rates

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