



---

**1130 S. Hope Street**  
**AIR QUALITY IMPACT ANALYSIS**  
**CITY OF LOS ANGELES**

PREPARED BY:

Haseeb Qureshi  
hqureshi@urbanxroads.com

Alyssa Tamase  
atamase@urbanxroads.com

OCTOBER 19, 2020

*This page intentionally left blank*

## TABLE OF CONTENTS

<b>THIS PAGE INTENTIONALLY LEFT BLANK</b> .....	<b>II</b>
<b>TABLE OF CONTENTS</b> .....	<b>I</b>
<b>APPENDICES</b> .....	<b>I</b>
<b>LIST OF EXHIBITS</b> .....	<b>I</b>
<b>LIST OF TABLES</b> .....	<b>I</b>
<b>LIST OF ABBREVIATED TERMS</b> .....	<b>II</b>
<b>EXECUTIVE SUMMARY</b> .....	<b>1</b>
ES.1 Summary of Findings.....	1
ES.2 Standard Regulatory Requirements/Best Available Control Measures (BACMs) .....	1
ES.3 Construction and Operational-Source Emissions Mitigation .....	2
<b>1 INTRODUCTION</b> .....	<b>4</b>
1.1 Site Location.....	4
1.2 Project Description.....	4
<b>2 AIR QUALITY SETTING</b> .....	<b>8</b>
2.1 South Coast Air Basin .....	8
2.2 Regional Climate .....	8
2.3 Wind Patterns and Project Location .....	9
2.4 Criteria Pollutants .....	10
2.5 Existing Air Quality .....	17
2.6 Regional Air Quality .....	20
2.7 Local Air Quality .....	20
2.8 Regulatory Background.....	21
<b>3 PROJECT AIR QUALITY IMPACT</b> .....	<b>27</b>
3.1 Introduction .....	27
3.2 Standards of Significance .....	27
3.3 Models Employed To Analyze Air Quality.....	28
<b>3.4 CONSTRUCTION EMISSIONS</b> .....	<b>28</b>
<b>3.5 OPERATIONAL EMISSIONS</b> .....	<b>31</b>
<b>3.6 LOCALIZED SIGNIFICANCE</b> .....	<b>33</b>
3.7 Construction-Source Emissions LST Analysis .....	38
3.8 Operational-Source Emissions LST Analysis .....	39
<b>3.9 CO “HOT SPOT” ANALYSIS</b> .....	<b>39</b>
3.10 AQMP .....	41
3.11 Potential Impacts to Sensitive Receptors .....	43
3.12 Odors.....	45
3.13 Cumulative Impacts .....	45
<b>4 REFERENCES</b> .....	<b>48</b>
<b>5 CERTIFICATIONS</b> .....	<b>52</b>

## **APPENDICES**

APPENDIX 2.1: STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS	
APPENDIX 3.1: CALEEMOD CONSTRUCTION (UNMITIGATED) EMISSIONS MODEL OUTPUTS	
APPENDIX 3.2: CALEEMOD OPERATIONAL EMISSIONS MODEL OUTPUTS	
APPENDIX 3.3: 2017 EMFAC FACTORS	

## **LIST OF EXHIBITS**

EXHIBIT 1-A: LOCATION MAP .....	5
EXHIBIT 1-B: SITE PLAN .....	6
EXHIBIT 3-A: SENSITIVE RECEPTORS .....	37

## **LIST OF TABLES**

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS .....	1
TABLE 2-1: CRITERIA POLLUTANTS .....	10
TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2).....	18
TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2).....	19
TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB .....	20
TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2017-2019.....	21
TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS .....	27
TABLE 3-2: CONSTRUCTION DURATION.....	29
TABLE 3-3: CONSTRUCTION EQUIPMENT .....	30
TABLE 3-4: EMISSIONS SUMMARY OF OVERALL CONSTRUCTION – WITHOUT MITIGATION .....	31
TABLE 3-5: SUMMARY OF OPERATIONAL EMISSIONS – WITHOUT MITIGATION.....	33
TABLE 3-6: MAXIMUM DAILY LOCALIZED CONSTRUCTION EMISSIONS THRESHOLDS .....	38
TABLE 3-5: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION – WITHOUT MITIGATION .....	38
TABLE 3-6: CO MODEL RESULTS .....	39
TABLE 3-7: TRAFFIC VOLUMES .....	40
TABLE 3-8: PROJECT PEAK HOUR TRAFFIC VOLUMES .....	41

## **LIST OF ABBREVIATED TERMS**

(1)	Reference
$\mu\text{g}/\text{m}^3$	Microgram per Cubic Meter
AADT	Annual Average Daily Trips
AQ	Air Quality
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
BACM	Best Available Control Measures
BBAQMD	Bay Area Air Quality Management District
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
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
CFR	Code of Federal Regulations
CO	Carbon Monoxide
City	City of Los Angeles
CY	Cubic Yards
EIR	Environmental Impact Reports
EPA	Environmental Protection Agency
GHG	Greenhouse Gas
GHGA	Greenhouse Gas Analysis
I-10	Interstate 10
I-110	Interstate 110
LST	Localized Significance Threshold
LST Methodology	Final Localized Significance Threshold Methodology
MM	Mitigation Measures
AAQS	National Ambient Air Quality Standards
$\text{NO}_2$	Nitrogen Dioxide
$\text{NO}_x$	Nitrogen Oxides

O <sub>3</sub>	Ozone
Pb	Lead
PM <sub>10</sub>	Particulate Matter 10 microns in diameter or less
PM <sub>2.5</sub>	Particulate Matter 2.5 microns in diameter or less
PPM	Parts Per Million
Project	1130 S. Hope Street
RECLAIM	Regional Clean Air Incentives Market
ROG	Reactive Organic Gases
RTP/SCS	Regional Transportation Plan/ Sustainable Communities Strategy
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
SO <sub>2</sub>	Sulfur Dioxide
SP	Specific Plan
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIS	<i>1130 South Hope Street Traffic Impact Study</i>
TOG	Total Organic Gases
UFP	Ultra Fine Particles
URBEMIS	Urban Emissions
UTRs	Utility Tractors
VOC	Volatile Organic Compounds
VPH	Vehicles Per Hour

*This page intentionally left blank*

## EXECUTIVE SUMMARY

### ES.1 SUMMARY OF FINDINGS

The results of this *1130 S. Hope Street 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 (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA for the Project.

**TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS**

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

### ES.2 STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES (BACMs)

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 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). Project compliance with



these and other mandatory regulatory requirements were assumed in the analysis presented here.

**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 to be applied to earth moving and grading activities.

**SCAQMD RULE 1113**

This rule serves to limit the 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 MITIGATION**

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 mitigation is required.

*This page intentionally left blank*

# 1 INTRODUCTION

This report presents the results of the air quality impact analysis (AQIA) prepared by Urban Crossroads, Inc., for the proposed 1130 S. Hope Street project ("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 Project is located at 1130 S. Hope Street between 11<sup>th</sup> and 12<sup>th</sup> street, in the City of Los Angeles, as shown on Exhibit 1-A. The Project site is located 0.55 miles east of Interstate 110 (I-110), 0.54 miles north of Interstate 10 (I-10), and 2.44 miles west of Highway 101. Los Angeles International Airport is located 11.10 miles to the southwest.

## 1.2 PROJECT DESCRIPTION

The Project proposes to consist of a mixed-use hotel development, with 144 hotel rooms, 378 square feet (sf) of retail and an indoor parking garage, as shown on Exhibit 1-B. The Project is expected to be fully operational by 2023.

At the time this analysis was prepared, the future tenants of the proposed Project were unknown. Therefore, this analysis includes a conservative assumption of on-site Project-related emission sources for potential future tenants, including architectural coatings, consumer products, landscape maintenance equipment, emissions associated with natural gas and electricity, and mobile source emissions. This analysis is intended to describe air impacts associated with the expected operational activities at the Project site. To present a conservative approach, this report assumes the Project will operate 24-hours daily for seven days per week. To present a conservative approach, this report assumes the Project will operate 24-hours daily for seven days per week. Per the *1130 Hope Street Traffic Impact Study* (TIS) prepared by KOA Consultants, the Project is expected to generate 1,035 daily two-way trips (4).

## EXHIBIT 1-A: LOCATION MAP



## 6



*This page intentionally left blank*

## 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

The Project site is located in the South Coast Air Basin (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<sub>2</sub>) to sulfates (SO<sub>4</sub>) 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% 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 five to ten 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<sub>x</sub>) 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
CO	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 <sub>3</sub> ), 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 <sub>2</sub> ) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O <sub>2</sub> transport and competing with O <sub>2</sub> to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O <sub>2</sub> 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 <sub>2</sub> deficiency) as seen at high altitudes.

Criteria Pollutant	Description	Sources	Health Effects
SO <sub>2</sub>	SO <sub>2</sub> 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 <sub>2</sub> oxidizes in the atmosphere, it forms SO <sub>4</sub> . Collectively, these pollutants are referred to as sulfur oxides (SO <sub>x</sub> ).	Coal or oil burning power plants and industries, refineries, diesel engines	<p>A few minutes of exposure to low levels of SO<sub>2</sub> 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<sub>2</sub>. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO<sub>2</sub>.</p> <p>Animal studies suggest that despite SO<sub>2</sub> 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.</p> <p>Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO<sub>2</sub> levels. In these studies, efforts to separate the effects of SO<sub>2</sub> from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.</p>

Criteria Pollutant	Description	Sources	Health Effects
NO <sub>x</sub>	NO <sub>x</sub> consist of nitric oxide (NO), nitrogen dioxide (NO <sub>2</sub> ) and nitrous oxide (N <sub>2</sub> O) and are formed when nitrogen (N <sub>2</sub> ) combines with O <sub>2</sub> . Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO <sub>x</sub> is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO <sub>2</sub> 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 <sub>2</sub> is the most abundant in the atmosphere. As ambient concentrations of NO <sub>2</sub> are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO <sub>2</sub> than those indicated by regional monitoring station.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	<p>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 NO<sub>2</sub> 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 NO<sub>2</sub> 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.</p> <p>In animals, exposure to levels of NO<sub>2</sub> 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 O<sub>3</sub> exposure increases when animals are exposed to a combination of O<sub>3</sub> and NO<sub>2</sub>.</p>
O <sub>3</sub>	O <sub>3</sub> is a highly reactive and unstable gas that is formed when VOCs and NO <sub>x</sub> , both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O <sub>3</sub> concentrations are generally highest during the summer	Formed when reactive organic gases (ROG) and NO <sub>x</sub> 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 sub-groups for O <sub>3</sub> effects. Short-term exposure (lasting for a

Criteria Pollutant	Description	Sources	Health Effects
	months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.	that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.	<p>few hours) to O<sub>3</sub> at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated O<sub>3</sub> levels are associated with increased school absences. In recent years, a correlation between elevated ambient O<sub>3</sub> 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<sub>3</sub> levels.</p> <p>O<sub>3</sub> 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<sub>3</sub> may be more toxic than exposure to O<sub>3</sub> 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.</p>
Particulate Matter	PM <sub>10</sub> : A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light	Sources of PM <sub>10</sub> include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO <sub>x</sub> , SO <sub>x</sub> ,	A consistent correlation between elevated ambient fine particulate matter (PM <sub>10</sub> and PM <sub>2.5</sub> ) levels and an increase in mortality rates, respiratory infections, number and severity of

Criteria Pollutant	Description	Sources	Health Effects
	<p>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<sub>10</sub> is considered a criteria air pollutant.</p> <p>PM<sub>2.5</sub>: A similar air pollutant to PM<sub>10</sub> 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<sub>4</sub> formed from SO<sub>2</sub> release from power plants and industrial facilities and nitrates that are formed from NO<sub>x</sub> 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<sub>2.5</sub> is a criteria air pollutant.</p>	<p>organics). Incomplete combustion of any fuel.</p> <p>PM<sub>2.5</sub> comes from fuel combustion in motor vehicles, equipment and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO<sub>x</sub>, SO<sub>x</sub>, organics).</p>	<p>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.</p> <p>Daily fluctuations in PM<sub>2.5</sub> 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.</p> <p>The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM<sub>10</sub> and PM<sub>2.5</sub>.</p>
VOC	<p>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</p>	<p>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.</p>	<p>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.</p>

Criteria Pollutant	Description	Sources	Health Effects
	form O <sub>3</sub> 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 <sub>3</sub> , 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, ROG are also precursors in forming O <sub>3</sub> 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 <sub>x</sub> react in the presence of sunlight. ROG are a criteria pollutant since they are a precursor to O <sub>3</sub> , 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 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 O<sub>3</sub>, CO (except 8-hour Lake Tahoe), SO<sub>2</sub> (1 and 24 hour), NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> do not exceed standards. 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, CARB has implemented a State Implementation Plan (SIP). 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)

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

See footnotes on next page ...

See footnotes on next page ...

For more information please call ARB-PIO at (916) 322-2990

California Air Resources Board (5/4/16)

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

1. 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  $150 \mu\text{g}/\text{m}^3$  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  $25^\circ\text{C}$  and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of  $25^\circ\text{C}$  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 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.
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  $15 \mu\text{g}/\text{m}^3$  to  $12.0 \mu\text{g}/\text{m}^3$ . The existing national 24-hour PM2.5 standards (primary and secondary) were retained at  $35 \mu\text{g}/\text{m}^3$ , as was the annual secondary standard of  $15 \mu\text{g}/\text{m}^3$ . The existing 24-hour PM10 standards (primary and secondary) of  $150 \mu\text{g}/\text{m}^3$  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  $\text{SO}_2$  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  $\text{SO}_2$  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 ( $1.5 \mu\text{g}/\text{m}^3$  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.

For more information please call ARB-PIO at (916) 322-2990

California Air Resources Board (5/4/16)

## 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<sub>3</sub>, particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), NO<sub>2</sub>, and SO<sub>2</sub> 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 <sub>3</sub> – 1-hour standard	Nonattainment	--
O <sub>3</sub> – 8-hour standard	Nonattainment	Nonattainment
PM <sub>10</sub>	Nonattainment	Attainment
PM <sub>2.5</sub>	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO <sub>2</sub>	Attainment	Unclassifiable/Attainment
SO <sub>2</sub>	Unclassifiable/Attainment	Unclassifiable/Attainment
Pb <sup>1</sup>	Attainment	Unclassifiable/Attainment

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

-- = The national 1-hour O<sub>3</sub> standard was revoked effective June 15, 2005.

## 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 SRA 1 (12). Within SRA 1, the SCAQMD Central Los Angeles monitoring station is located approximately 2.8 miles northeast of the Project site and is the nearest long-term air quality monitoring site for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>.

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<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> for 2017 through 2019 was obtained from the SCAQMD Air Quality Data Tables (13). Additionally, data for SO<sub>2</sub> has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO<sub>2</sub> concentrations.

<sup>1</sup> The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

**TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2017-2019**

Pollutant	Standard	YEAR		
		2017	2018	2019
O <sub>3</sub>				
Maximum Federal 1-Hour Concentration (ppm)		0.116	0.098	0.085
Maximum Federal 8-Hour Concentration (ppm)		0.086	0.073	0.080
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	6	2	0
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	14	4	2
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	1.9	2.0	2.0
Maximum Federal 8-Hour Concentration	> 20 ppm	1.6	1.7	1.6
NO <sub>2</sub>				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.081	0.070	0.070
Annual Average		0.021	0.019	0.018
PM <sub>10</sub>				
Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> )	> 150 µg/m <sup>3</sup>	96	81	62
Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )		34.4	34.1	25.5
Number of Days Exceeding Federal 24-Hour Standard	> 150 µg/m <sup>3</sup>	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 µg/m <sup>3</sup>	41	31	3
PM <sub>2.5</sub>				
Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> )	> 35 µg/m <sup>3</sup>	49.20	43.80	43.50
Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )	> 12 µg/m <sup>3</sup>	11.94	12.58	10.85
Number of Days Exceeding Federal 24-Hour Standard	> 35 µg/m <sup>3</sup>	5	3	1

ppm = Parts Per Million

µg/m<sup>3</sup> = Microgram per Cubic MeterSource: Data for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> 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<sub>3</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and Pb (14). 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 (15). 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) (16) (17). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O<sub>3</sub>, NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>10</sub>, CO, PM<sub>2.5</sub>, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O<sub>3</sub> and to adopt a NAAQS for PM<sub>2.5</sub>. 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<sub>x</sub>. NO<sub>x</sub> is a collective term that includes all forms of NO<sub>x</sub> 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 SO<sub>4</sub>, visibility, hydrogen sulfide (H<sub>2</sub>S), and vinyl chloride (C<sub>2</sub>H<sub>3</sub>Cl). However, at this time, H<sub>2</sub>S and C<sub>2</sub>H<sub>3</sub>Cl 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 (18) (14).

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 ROG<sub>s</sub>, NO<sub>x</sub>, CO and PM<sub>10</sub>. 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 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, upright 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)
  - 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).
  - 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).

- 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 use 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 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 use 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 (19). AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.10.



*This page intentionally left blank*

### 3 PROJECT AIR QUALITY IMPACT

#### 3.1 INTRODUCTION

This study quantifies air quality emissions generated by construction and operation of the Project and addresses whether the Project conflicts with implementation of the SCAQMD's AQMP. The analysis of Project-generated air emissions determines whether the Project would result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is in non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine whether the Project would expose 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 (20):

- 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 (21). 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 <sub>x</sub>	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM <sub>10</sub>	150 lbs/day	150 lbs/day
PM <sub>2.5</sub>	55 lbs/day	55 lbs/day
SO <sub>x</sub>	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day

### 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, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from MMs (22). 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.

#### 3.3.2 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, 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 (23). 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 obtain CalEEMod vehicle emission factors for each emission type are detailed in CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (24). 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<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. 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, the Project is anticipated to require 6,233 cubic yards of export. For purposes of analysis, the CalEEMod default hauling trip length of 20 miles will be utilized.

## 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

For purposes of analysis, construction is expected to commence in May 2021 and last through October 2022. The construction schedule utilized in the analysis, shown in Table 3-3, 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<sup>2</sup>. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (20). The duration of construction activity was based on the information provided by the Project Applicant.

**TABLE 3-2: CONSTRUCTION DURATION**

Phase Name	Start Date	End Date	Days
Site Preparation	05/10/2021	05/21/2021	10
Grading	05/24/2021	08/06/2021	55
Building Construction	08/09/2021	08/09/2022	262
Architectural Coating	09/07/2022	09/15/2022	7
Paving	10/01/2022	10/06/2022	4

<sup>2</sup> 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.

### 3.4.3 CONSTRUCTION EQUIPMENT

The construction equipment fleet was based on information provided by the Project Applicant. A summary of construction equipment assumptions by phase is provided at Table 3-3. It should be noted that CalEEMod does not provide an extensive list of construction equipment, for purposes of analysis, CalEEMod equipment that most closely fit the equipment listed in Table 3-3 are reflected in these analyses.

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 3-3 will operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code.

**TABLE 3-3: CONSTRUCTION EQUIPMENT**

Phase Name	Equipment	Number	Hours Per Day
Site Preparation	Crawler Tractors	1	8
	Graders	1	8
Grading	Crawler Tractors	1	8
	Rubber Tired Dozers	1	8
Building Construction	Cranes	1	8
	Forklifts	2	8
	Tractors/Loaders/Backhoes	1	8
Architectural Coating	Air Compressors	1	8
Paving	Cement and Mortar Mixers	2	8
	Pavers	1	8
	Rollers	1	8
	Tractors/Loaders/Backhoes	1	8

### 3.4.4 REGIONAL CONSTRUCTION EMISSIONS SUMMARY

#### IMPACTS WITHOUT MITIGATION

CalEEMod calculates maximum daily emissions for summer and winter periods. As such, the estimated maximum daily construction emissions without mitigation for both summer and winter periods 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 would not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant.

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

Year	Emissions (pounds per day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
2021	1.37	16.68	8.03	0.02	3.73	2.02
2022	73.03	9.06	10.72	0.02	0.80	0.46
Winter						
2021	1.38	16.73	7.96	0.02	3.73	2.02
2022	73.03	9.07	10.66	0.02	0.80	0.46
<b>Maximum Daily Emissions</b>	<b>73.03</b>	<b>16.73</b>	<b>10.72</b>	<b>0.02</b>	<b>3.73</b>	<b>2.02</b>
SCAQMD Regional Threshold	75	100	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

### 3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. 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 buildings that are part of this Project will require maintenance and will therefore produce emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings. 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.

##### LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers,

shredders/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**

Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas.

When combustion of natural gas occurs within a building, the building is considered a direct emission source and CalEEMod will calculate emissions of all criteria pollutants (24). For purposes of analysis, the emissions associated with natural gas use were calculated using CalEEMod.

CalEEMod also calculates criteria pollutants from generation of electricity associated with a building. It should be noted that when electricity is used in buildings, the electricity generation typically takes place offsite (i.e. power plants). Because power plants are existing stationary sources, criteria pollutant emissions are generally associated with the power plants and not the individual buildings or electricity users (24). Since electricity will be provided to the Project by Los Angeles Department of Water and Power, Project-related electricity generation is considered to take place offsite and therefore criteria pollutant emissions are not accounted for.

#### **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 compared to the prior code (25). The CalEEMod defaults for Title 24 – Electricity and Lighting Energy were reduced by 30% in order to reflect consistency with the 2019 Title 24 standard.

### **3.5.3 MOBILE SOURCE EMISSIONS**

The Project related operational emissions derive primarily from vehicle trips generated by the Project. Trip characteristics available from the TIS report were utilized in this analysis. Per IS prepared by Urban Crossroads, Inc. the Project is expected to generate a total of approximately 1,035 two-way vehicular trips per day (4).

#### **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 utilizes summer and winter EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. The estimated operational-source emissions are summarized on Tables 3-5. Detailed operation model outputs for the Project are presented in Appendix 3.1. As shown on Table 3-5, the Project's daily regional emissions from on-going operations will not exceed any of the thresholds of significance.

**TABLE 3-5: SUMMARY OF OPERATIONAL EMISSIONS – WITHOUT MITIGATION**

Source	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
Area Source	1.38	1.90E-04	0.02	0.00	8.00E-05	8.00E-05
Energy Source	0.08	0.72	0.60	4.30E-03	0.05	0.05
Mobile Source	2.87	5.15	25.63	0.07	6.24	1.72
<b>Total Maximum Daily Emissions</b>	<b>4.33</b>	<b>5.87</b>	<b>26.25</b>	<b>0.07</b>	<b>6.29</b>	<b>1.77</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
Winter						
Area Source	1.38	1.90E-04	0.02	0.00	8.00E-05	8.00E-05
Energy Source	0.08	0.72	0.60	4.30E-03	0.05	0.05
Mobile Source	2.97	5.43	24.89	0.07	6.24	1.71
<b>Total Maximum Daily Emissions</b>	<b>4.43</b>	<b>6.14</b>	<b>25.51</b>	<b>0.07</b>	<b>6.29</b>	<b>1.77</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

### 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 CAAQS. Collectively, these are referred to as Localized Significance Thresholds (LSTs).



The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4<sup>3</sup>. 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 Central Los Angeles (SRA 1). LSTs apply to CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. 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:

- Identify the maximum daily on-site emissions that will occur during construction activity:
  - The maximum daily on-site emissions could be based on information provided by the Project Applicant; or
  - The SCAQMD's *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* and *CalEEMod User's Guide Appendix A: Calculation Details for CalEEMod* can be 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) (24).
- 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.
- If the total acreage disturbed is greater than 5 acres per day, then LST impacts may still be conservatively evaluated using the LST look-up tables for a 5-acre disturbance area. Use of the 5-acre disturbance area thresholds can be used to show that even if the daily emissions from all construction activity were emitted within a 5-acre area, and therefore concentrated over a smaller area which would result in greater site adjacent concentrations, the impacts would still be less than significant if the applicable 5-acre thresholds are utilized.
- 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

<sup>3</sup> The 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."

values given, or with receptors at distances between the given receptors, the methodology uses linear interpolation to determine the thresholds.

#### **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.

#### **MAXIMUM DAILY DISTURBED-ACREAGE**

For analytical purposes, it is assumed that 1 acre will be disturbed per day. For purposes of analysis, LSTs for a 1-acre site are used as a screening tool to determine if further detailed analysis is required<sup>4</sup>.

#### **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.

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 and individuals with pre-existing respiratory or cardiovascular illness. Structures that house these persons or places where they gather are defined as "sensitive receptors". These structures typically include uses such as residences, hotels, and hospitals 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 PM<sub>10</sub> and PM<sub>2.5</sub>, since PM<sub>10</sub> and PM<sub>2.5</sub> thresholds are based on a 24 hour averaging time.

LSTs apply, even for non-sensitive land uses, consistent with LST methodology and SCAQMD guidance. 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. However, *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO<sub>2</sub> 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).*" Therefore any adjacent land use where an individual could remain for 1 or 8-hours, that is located at a closer distance to the Project site than the nearest residential use, must be considered to determine construction and operational LST air impacts for emissions of NO<sub>2</sub> and CO since these pollutants have an averaging time of 1 and 8-hours.

<sup>4</sup> CalEEMod does not provide a "Total Acres Graded" field for Demolition, Building Construction, Paving, or Architectural Coating activities.

## PROJECT-RELATED RECEPTORS

Receptors in the Project study area are described below and shown on Exhibit 3-A. Localized air quality impacts were evaluated at receptor land uses nearest the Project site. Consistent with the *Residences at Newport Noise Impact Analysis*, prepared by Urban Crossroads, Inc., all distances are measured from the Project site boundary to the outdoor living areas (e.g., backyards) or at the building façade, whichever is closer to the Project site. The selection of receptor locations is based on Federal Highway Administration (FHWA) guidelines and is consistent with additional guidance provided by Caltrans and the Federal Transit Administration (FTA) (29):

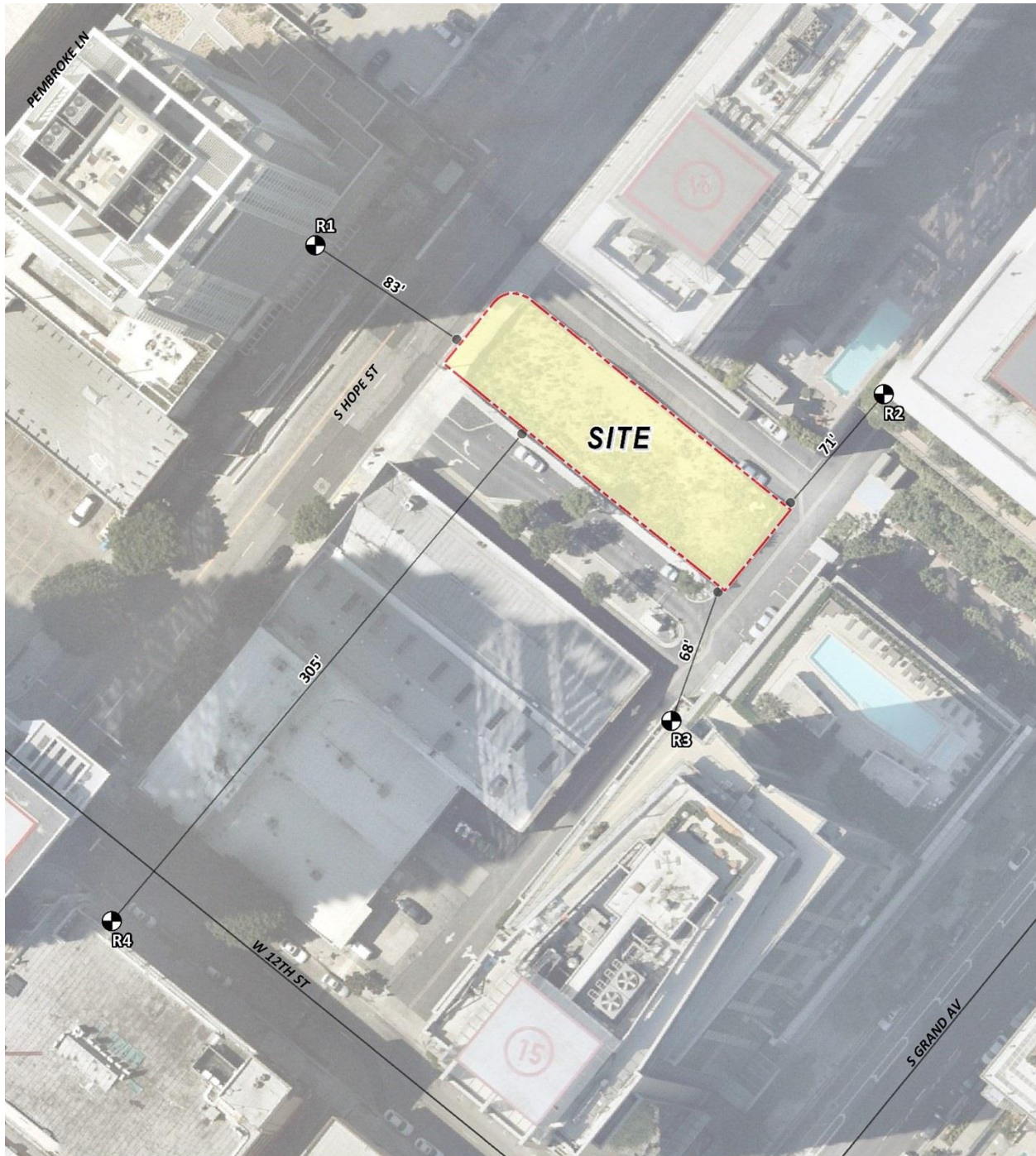
- R1: Location R1 represents the existing residence at 1133 South Hope Street, approximately 83 feet northwest of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R1 is placed at the residential building façade.
- R2: Location R2 represents the existing residence at 1111 South Grand Avenue, approximately 71 feet east of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R2 is placed at the residential building façade.
- R3: Location R3 represents the existing residence at 1155 South Grand Avenue, approximately 68 feet south of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R3 is placed at the residential building façade.
- R4: Location R4 represents Hudson Loft at 1200 South Hope Street, approximately 305 feet southwest of the Project site. R4 is placed at the building façade.




The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual a cumulatively significant impact. The nearest land use where an individual could remain for 24 hours to the Project site has been used to determine localized construction and operational air quality impacts for emissions of PM<sub>10</sub> and PM<sub>2.5</sub> (since PM<sub>10</sub> and PM<sub>2.5</sub> thresholds are based on a 24 hour averaging time). The nearest receptor used for evaluation of localized impacts of PM<sub>10</sub> and PM<sub>2.5</sub> is represented by location R3 which represents the existing residence at 1155 South Grand Avenue, 68 feet/21 meters from the Project site.

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<sub>x</sub> 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. It should be noted that the existing residence (R3) is located at a closer distance than the nearest industrial/commercial use. As such, same receptor will be used for evaluation of localized NO<sub>x</sub> and CO.

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 PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub>, and CO.

### EXHIBIT 3-A: SENSITIVE RECEPTORS



- LEGEND:**
-  N
  -  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

LSTs for a 1-acre was used as a screening tool to determine if further detailed analysis is required. As such, the construction threshold values presented in Table 3-6, are from the look-up tables at 1 acre and a 25-meter distance for localized PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, and CO evaluation.

**TABLE 3-6: MAXIMUM DAILY LOCALIZED CONSTRUCTION EMISSIONS THRESHOLDS**

Pollutant	Construction Localized Thresholds
NO <sub>x</sub>	74 lbs/day
CO	680 lbs/day
PM <sub>10</sub>	5 lbs/day
PM <sub>2.5</sub>	3 lbs/day

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

#### 3.7.2 CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

##### IMPACTS WITHOUT MITIGATION

Table 3-5 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Without mitigation, localized construction emissions would not exceed the applicable SCAQMD LSTs for emissions of any critical pollutant. Outputs from the model runs for unmitigated construction LSTs are provided in Appendix 3.1.

**TABLE 3-5: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION – WITHOUT MITIGATION**

On-Site Emissions	Emissions (lbs/day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Site Preparation				
Maximum Daily Emissions	12.89	4.20	0.86	0.46
SCAQMD Localized Threshold	74	680	5	3
Threshold Exceeded?	NO	NO	NO	NO
Grading				
Maximum Daily Emissions	12.87	6.30	3.41	1.93
SCAQMD Localized Threshold	74	680	5	3
Threshold Exceeded?	NO	NO	NO	NO

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

### 3.8 OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

The development of the proposed Project is located on 0.18 acres. As previously stated, the total development is proposed to consist of a mixed-use hotel development, with 144 hotel rooms, 378 sf of retail and an indoor parking garage. 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 *1993 CEQA Handbook*, the SCAB was designated nonattainment under the CAAQS and NAAQS for CO (30).

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 3-6.

**TABLE 3-6: CO MODEL RESULTS**

Intersection Location	CO Concentrations (ppm)		
	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

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

Based on the SCAQMD's 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 (31). 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 (32).

Traffic volumes generating the CO concentrations for the “hot spot” analysis is shown on Table 3-7. The busiest intersection evaluated for AM traffic volumes was at Wilshire Blvd. and Veteran Ave., which has an PM traffic volumes was at La Cienega Boulevard and Century Boulevard, which has a PM traffic volume of 8,674 vph (33). As shown on Table 3-8, the highest trips on a segment of road for the proposed Project is 1,583 vph on Hope Street and 11<sup>th</sup> Street. 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 3-7: TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	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



**TABLE 3-8: PROJECT PEAK HOUR TRAFFIC VOLUMES**

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Hope Street/11 <sup>th</sup> Street	396/357	245/525	0/0	283/701	924/1,583
Hope Street/Project Driveway	486/345	303/491	0/0	0/0	789/836
Hope Street/12 <sup>th</sup> Street	473/293	54/353	24/74	0/0	551/720

Source: 1130 S. Hope Street Traffic Impact Study (KOA Consultants, September 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 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 in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

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 and 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 (34). 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 CAA requirements (19). 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* (35). 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 would result.

#### ***Operational Impacts – Consistency Criterion 1***

As evaluated, and when taking into consideration existing emissions, the Project's operational emissions would not exceed the applicable regional significance thresholds and LST thresholds for operational activity. Therefore, the Project would not conflict with the AQMP according to this criterion.

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 build-out 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 Los Angeles 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. As such, when considering that no emissions thresholds will be exceeded, a less than significant impact would result.

#### ***Operational Impacts – Consistency Criterion 2***

The City of Los Angeles is currently in the processes of updating the General Plan. Based on the Draft Downtown Community Plan, the Project site is located within the South Park neighborhood of the Transit Core area. Transit Core areas provide a diverse mix of office, residential, retail, cultural, and entertainment uses. The South Park neighborhood is recognized to be a thriving residential mixed-use community, supported by commercial, office, and medical uses integrated into a walkable and transit accessible neighborhood. One of the goals of the South Park

neighborhood is to ensure an adequate supply of hotel rooms to improve Los Angeles' competitiveness and ability to capture convention business (36).

The Project proposes the development of a mixed-use hotel development, with 144 hotel rooms, 378 sf of retail and an indoor parking garage which is consistent with the goals outlined for projects located within the Transit Core area.

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 have the potential to result in or cause NAAQS or CAAQS violations. Additionally, Project construction and operational-source emissions would not exceed the regional or localized significance thresholds. 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. 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 pollutant concentrations during Project construction.

Additionally, 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.

#### **3.11.1 FRIANT RANCH CASE**

In December 2018, in the case of *Sierra Club v. County of Fresno* (2018) 6 Cal.5<sup>th</sup> 502, the California Supreme Court held that an Environmental Impact Report's (EIR) air quality analysis must meaningfully connect the identified air quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided.

As discussed in briefs filed in the Friant Ranch case, correlating a project's criteria air pollutant emissions to specific health impacts is challenging. The SCAQMD, which has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, and thus it is uniquely situated to express an opinion on how lead agencies should correlate air quality impacts with specific health outcomes (37) noted that it may be “difficult to quantify health impacts for criteria pollutants.” SCAQMD used O<sub>3</sub> as an example of why it is impracticable to determine specific health outcomes from criteria pollutants for all but very large, regional-scale projects. First, forming O<sub>3</sub> “takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources.” (SCAQMD, 2015a, p. 11) Second, “it takes a large amount of additional precursor emissions (NO<sub>x</sub> and VOCs) to cause a modeled increase in ambient ozone levels over an entire region,” with a 2012 study showing that “reducing NO<sub>x</sub> by 432 tons per day

(157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion." (SCAQMD, 2015a, pp. 12-14)

SCAQMD concluded that it "does not currently know of a way to accurately quantify ozone-related health impacts caused by NO<sub>x</sub> or VOC emissions from relatively small projects." (SCAQMD, 2015a, pp. 12-14) The San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) ties the difficulty of correlating the emission of criteria pollutants to health impacts to how ozone and particulate matter are formed, stating that "[b]ecause of the complexity of ozone formation, a specific tonnage amount of NO<sub>x</sub> or VOCs emitted in a particular area does not equate to a particular concentration of ozone in that area." (SJVUAPCD, 2015, p. 4) Similarly, the tonnage of PM "emitted does not always equate to the local PM concentration because it can be transported long distances by wind," and "[s]econdary PM, like ozone, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SO<sub>x</sub>) and NO<sub>x</sub>," meaning that "the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area." (SJVUAPCD, 2015, p. 5) The disconnect between the amount of precursor pollutants and the concentration of ozone or PM formed makes it difficult to determine potential health impacts, which are related to the concentration of ozone and PM experienced by the receptor rather than levels of NO<sub>x</sub>, SO<sub>x</sub>, and VOCs produced by a source.

Most local agencies, including the City of Los Angeles, lack the data to do their own assessment of potential health impacts from criteria air pollutant emissions, as would be required to establish customized, locally-specific thresholds of significance based on potential health impacts from an individual development project. The use of national or "generic" data to fill the gap of missing local data would not yield accurate results because such data does not capture local air patterns, local background conditions, or local population characteristics, all of which play a role in how a population experiences air pollution. Because it is impracticable to accurately isolate the exact cause of a human disease (for example, the role a particular air pollutant plays compared to the role of other allergens and genetics in cause asthma), the City has determined that existing scientific tools cannot accurately estimate health impacts of the Project's air emissions without undue speculation. Instead, readers are directed to the Project's air quality impact analysis above, which provides extensive information concerning the quantifiable and non-quantifiable health risks related to the Project's construction and long-term operation.

The LST analysis above determined that the project would not result in emissions exceeding SCAQMD's LSTs. Therefore, the proposed Project would not be expected to exceed the most stringent applicable federal or state ambient air quality standards for emissions of CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>.

As the Project's emissions will comply with federal, state, and local air quality standards, the proposed Project's emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a basin-wide level, and would not provide a reliable indicator of health effects if modeled.

### 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 (38).

### 3.13 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> while the NAAQS designates the Project site as nonattainment for O<sub>3</sub> and PM<sub>2.5</sub>.

The SCAQMD 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* (39). In this report the SCAQMD clearly states (Page D-3):

*"...the SCAQMD 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 (facility-wide) 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.

*This page intentionally left blank*

## 4 REFERENCES

1. **Association of Environmental Professionals.** 2018 CEQA California Environmental Quality Act. 2018.
2. **South Coast Air Quality Management District.** RULE 403. FUGITIVE DUST. [Online] <https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf?sfvrsn=4>.
3. —. RULE 1113. Architectural Coatings. [Online] <http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1113.pdf>.
4. **KOA Consultants.** 1130 Hope Street Traffic Impact Study. 2020.
5. **South Coast Air Quality Management District.** Southern California Air Basins. [Online] <https://www.arb.ca.gov/msprog/onroad/porttruck/maps/scabc7map.pdf>.
6. —. *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning.* 2005.
7. **St. Croix Sensory, Inc.** *The "Gray Line" Between Odor Nuisance and Health Effects.* 2000.
8. **California Air Resources Board.** Ambient Air Quality Standards (AAQS). [Online] 2016. <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>.
9. **United State Environmental Protection Agency.** Frequent Questions about General Conformity . EPA. [Online] <https://www.epa.gov/general-conformity/frequent-questions-about-general-conformity#8>.
10. **South Coast Air Quality Management District.** Annual Air Quality Monitoring Network Plan. [Online] July 2018. <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-monitoring-network-plan/annual-air-quality-monitoring-network-plan-v2.pdf?sfvrsn=2>.
11. **Air Resources Board.** State and National Ambient Air Quality Standards. [Online] [https://www.arb.ca.gov/regact/2019/stateareadesignations/appc.pdf?\\_ga=2.169398369.1537615702.1554741141-1192937971.1505156621](https://www.arb.ca.gov/regact/2019/stateareadesignations/appc.pdf?_ga=2.169398369.1537615702.1554741141-1192937971.1505156621).
12. **South Coast Air Quality Management District.** Map of Monitoring Areas. [Online] <http://www.aqmd.gov/docs/default-source/default-document-library/map-of-monitoring-areas.pdf>.
13. **District, South Coast Air Quality Management.** Air Quality Data Tables. [Online] <https://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year>.
14. **Environmental Protection Agency.** National Ambient Air Quality Standards (NAAQS). [Online] 1990. <https://www.epa.gov/environmental-topics/air-topics>.
15. —. Air Pollution and the Clean Air Act. [Online] <http://www.epa.gov/air/caa/>.
16. **United States Environmental Protection Agency.** 1990 Clean Air Act Amendment Summary: Title I. [Online] <https://www.epa.gov/clean-air-act-overview/1990-clean-air-act-amendment-summary-title-i>.
17. —. 1990 Clean Air Act Amendment Summary: Title II. [Online] <https://www.epa.gov/clean-air-act-overview/1990-clean-air-act-amendment-summary-title-ii>.
18. **Air Resources Board.** California Ambient Air Quality Standards (CAAQS). [Online] 2009. [Cited: April 16, 2018.] <http://www.arb.ca.gov/research/aaqs/caaqs/caaqs.htm>.
19. **Southern California Association of Governments.** 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy. [Online] April 2016. <http://scagrtpscscs.net/Documents/2016/final/f2016RTPSCS.pdf>.
20. **State of California.** 2019 CEQA California Environmental Quality Act. 2019.

21. **South Coast Air Quality Management District (SCAQMD).** SCAQMD Air Quality Significance Thresholds. [Online] <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>.
22. **California Air Pollution Control Officers Association (CAPCOA).** California Emissions Estimator Model (CalEEMod). [Online] September 2016. [www.caleemod.com](http://www.caleemod.com).
23. **California Department of Transportation.** EMFAC Software. [Online] <http://www.dot.ca.gov/hq/env/air/pages/emfac.htm>.
24. **California Air Pollution Control Officers Association (CAPCOA).** Appendix A: Calculation Details for CalEEMod. *CalEEMod*. [Online] October 2017. [http://www.aqmd.gov/docs/default-source/caleemod/02\\_appendix-a2016-3-2.pdf?sfvrsn=6](http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6).
25. **The California Energy Commission.** 2019 Building Energy Efficiency Standards . *California Energy Commission*. [Online] 2018. [https://www.energy.ca.gov/title24/2019standards/documents/2018\\_Title\\_24\\_2019\\_Building\\_Standards\\_FAQ.pdf](https://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf).
26. **South Coast Air Quality Management District.** *Localized Significance Thresholds Methodology*. s.l. : South Coast Air Quality Management District, 2003.
27. **Lake Environmental.** US EPA Models. *Lake Environmental*. [Online] [http://www.weblakes.com/download/us\\_epa.html](http://www.weblakes.com/download/us_epa.html).
28. **South Coast Air Quality Management District.** Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. [Online] <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf>.
29. **Urban Crossroads, Inc.** *1130 S. Hope Street Noise Impact Analysis*. 2020.
30. **South coast Air Quality Management District.** *CEQA Air Quality Handbook (1993)*. 1993.
31. **South Coast Air Quality Management District.** 2003 Air Quality Management Plan. [Online] 2003. <https://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp>.
32. **Bay Area Air Quality Management District.** California Environmental Quality Act Air Quality Guidelines. *Bay Area Air Quality Management District*. [Online] May 2010. [https://www.baaqmd.gov/~media/Files/Planning%20and%20Research/CEQA/Draft\\_BAAQMD\\_CEQ\\_A\\_Guidelines\\_May\\_2010\\_Final.ashx](https://www.baaqmd.gov/~media/Files/Planning%20and%20Research/CEQA/Draft_BAAQMD_CEQ_A_Guidelines_May_2010_Final.ashx).
33. **South Coast Air Quality Management District.** 2003 Air Quality Management Plan. [Online] 2003. <https://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp>.
34. —. Final 2016 Air Quality Management Plan (AQMP). [Online] March 2017. <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=11>.
35. **South coast Air Quality Management District.** *CEQA Air Quality Handbook (1993)*. 1993.
36. **City of Los Angeles.** Los Angeles City Planning Downtown Community Plan - Summer 2020 Draft. [Online] 2020. [https://planning.lacity.org/odocument/577e7045-8159-41ce-b85b-975df5d6c376/Downtown\\_Community\\_Plan\\_Text\\_Summer\\_2020.pdf](https://planning.lacity.org/odocument/577e7045-8159-41ce-b85b-975df5d6c376/Downtown_Community_Plan_Text_Summer_2020.pdf).
37. **South Coast Air Quality Management District.** Sierra Club, Revive the San Joaquin and League of Women Voters of Fresno, Plaintiffs and Appellants, v. County of Fresno, Defendant and Respondent and, Friant Ranchm L.P. Real Party in Interest and Respondent. [Online] 2015. <https://www.courts.ca.gov/documents/9-s219783-ac-south-coast-air-quality-mgt-dist-041315.pdf>.



38. —. RULE 402 NUISANCE. [Online] <http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-402.pdf>.
39. **Goss, Tracy A and Kroeger, Amy.** White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. [Online] South Coast Air Quality Management District, 2003. [http://www.aqmd.gov/rules/ciwig/final\\_white\\_paper.pdf](http://www.aqmd.gov/rules/ciwig/final_white_paper.pdf).

*This page intentionally left blank*

## 5 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed 1130 S. Hope Street Project. The information contained in this air quality impact report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at [hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com).

Haseeb Qureshi  
Senior Associate  
URBAN CROSSROADS, INC.  
[hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com)

### EDUCATION

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

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

### PROFESSIONAL AFFILIATIONS

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

### PROFESSIONAL CERTIFICATIONS

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

*This page intentionally left blank*

**APPENDIX 2.1:**

**STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS**

*This page intentionally left blank*

## **APPENDIX C**

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

*[This page intentionally left blank]*



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

See footnotes on next page ...

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM<sub>10</sub>, PM<sub>2.5</sub>, 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 PM<sub>10</sub>, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m<sup>3</sup> is equal to or less than one. For PM<sub>2.5</sub>, 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 PM<sub>2.5</sub> primary standard was lowered from 15 µg/m<sup>3</sup> to 12.0 µg/m<sup>3</sup>. The existing national 24-hour PM<sub>2.5</sub> standards (primary and secondary) were retained at 35 µg/m<sup>3</sup>, as was the annual secondary standard of 15 µg/m<sup>3</sup>. The existing 24-hour PM<sub>10</sub> standards (primary and secondary) of 150 µg/m<sup>3</sup> 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 SO<sub>2</sub> 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 SO<sub>2</sub> 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/m<sup>3</sup> 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.

*[This page intentionally left blank]*

### ***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.

**FIGURE 1**



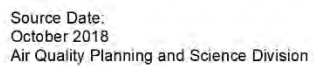
**TABLE 1**

**California Ambient Air Quality Standards  
Area Designations for Ozone <sup>(1)</sup>**

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

(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  
PM<sub>10</sub>**





**TABLE 2**

**California Ambient Air Quality Standards  
Area Designation for Suspended Particulate Matter (PM<sub>10</sub>)**

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

FIGURE 3



**TABLE 3**

**California Ambient Air Quality Standards  
Area Designations for Fine Particulate Matter (PM<sub>2.5</sub>)**

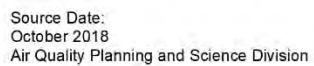
	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			X	Imperial County			
LAKE TAHOE AIR BASIN			X	- City of Calexico (3)	X		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			X
San Bernardino County				SAN DIEGO AIR BASIN	X		
- County portion of federal Southeast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

(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**



**TABLE 4**

**California Ambient Air Quality Standards  
Area Designation for Carbon Monoxide\***

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

\* The area designated for carbon monoxide is a county or portion of a county

FIGURE 5

**2018**  
**Area Designations for State**  
**Ambient Air Quality Standards**  
**NITROGEN DIOXIDE**



Source Date:  
 October 2018  
 Air Quality Planning and Science Division

**TABLE 5**

**California Ambient Air Quality Standards  
Area Designation for Nitrogen Dioxide**

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

FIGURE 6

**2018**  
**Area Designations for State**  
**Ambient Air Quality Standards**  
**SULFUR DIOXIDE**



Source Date:  
 October 2018  
 Air Quality Planning and Science Division



**TABLE 6****California Ambient Air Quality Standards  
Area Designation for Sulfur Dioxide\***

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

\* The area designated for sulfur dioxide is a county or portion of a county

FIGURE 7

**2018**  
**Area Designations for State**  
**Ambient Air Quality Standards**  
**SULFATES**



Source Date:  
 October 2018  
 Air Quality Planning and Science Division

**TABLE 7****California Ambient Air Quality Standards  
Area Designation for Sulfates**

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

FIGURE 8

**2018  
Area Designations for State  
Ambient Air Quality Standards  
LEAD**



Source Date:  
October 2018  
Air Quality Planning and Science Division

**TABLE 8**

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

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

\* 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.

FIGURE 9

**2018**  
**Area Designations for State**  
**Ambient Air Quality Standards**  
**HYDROGEN SULFIDE**



Source Date:  
 October 2018  
 Air Quality Planning and Science Division

**TABLE 9**

**California Ambient Air Quality Standards  
Area Designation for Hydrogen Sulfide\***

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

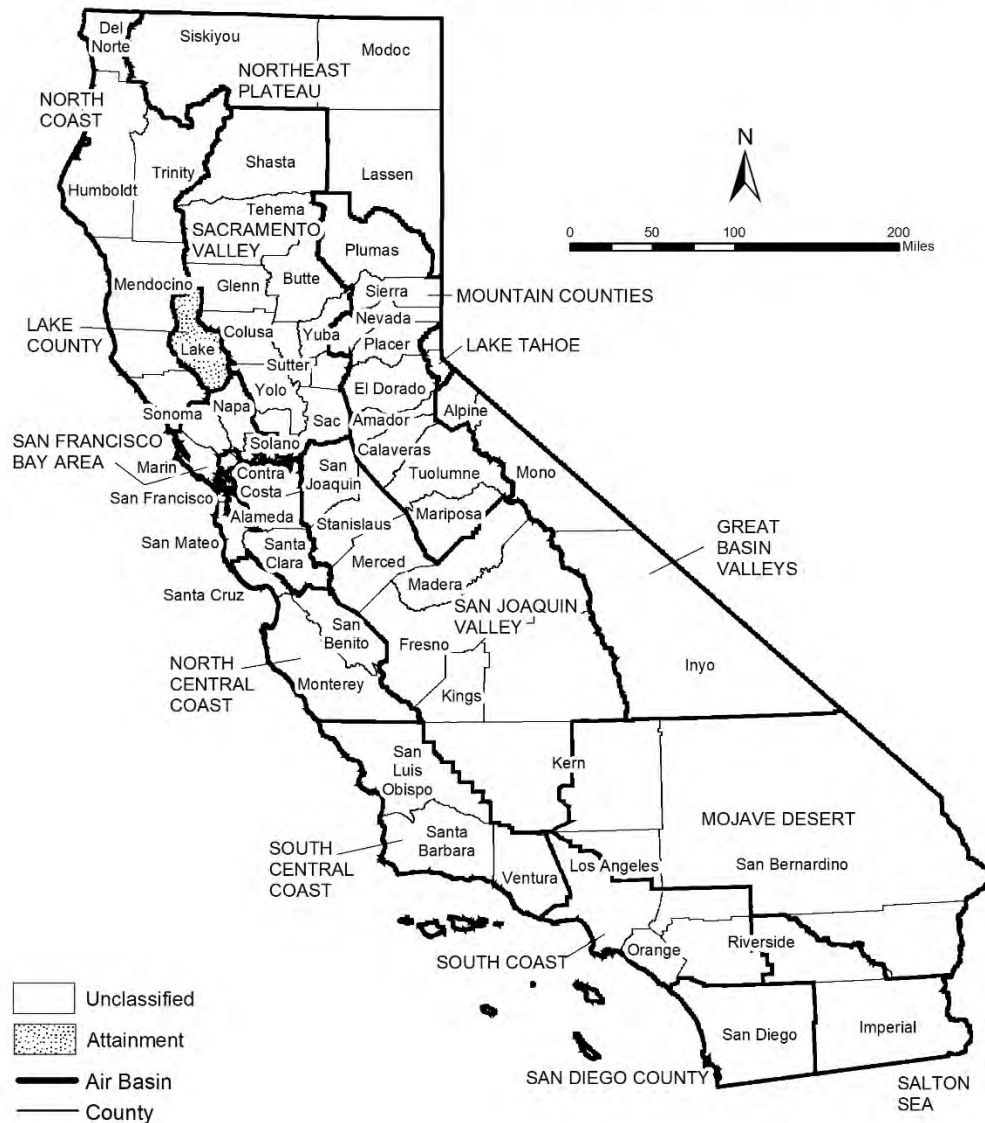
\* The area designated for hydrogen sulfide is a county or portion of a county

(1) 52 Federal Register 29384 (August 7, 1987)

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

FIGURE 10

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



Source Date:  
 October 2018  
 Air Quality Planning and Science Division



**TABLE 10**

**California Ambient Air Quality Standards  
Area Designation for Visibility Reducing Particles**

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

## ***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<sub>10</sub>)*. The U.S. EPA uses three categories to designate areas with respect to PM<sub>10</sub>:

- Attainment
- Nonattainment
- Unclassifiable

*Ozone, Fine Suspended Particulate Matter (PM<sub>2.5</sub>), Carbon Monoxide (CO), and Nitrogen Dioxide (NO<sub>2</sub>)*. 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<sub>2.5</sub> standard of 12.0 µg/m<sup>3</sup>. 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 µg/m<sup>3</sup> as well as the 24-hour standard of 35 µg/m<sup>3</sup>, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO<sub>2</sub> standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO<sub>2</sub> standard became effective on February 29, 2012. All areas of California meet this standard.

*Sulfur Dioxide (SO<sub>2</sub>)*. 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 SO<sub>2</sub> 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 SO<sub>2</sub> 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 µg/m<sup>3</sup>. 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](https://ecfr.io/Title-40/se40.20.81_1305)*

FIGURE 11



**TABLE 11**

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

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

\* 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.

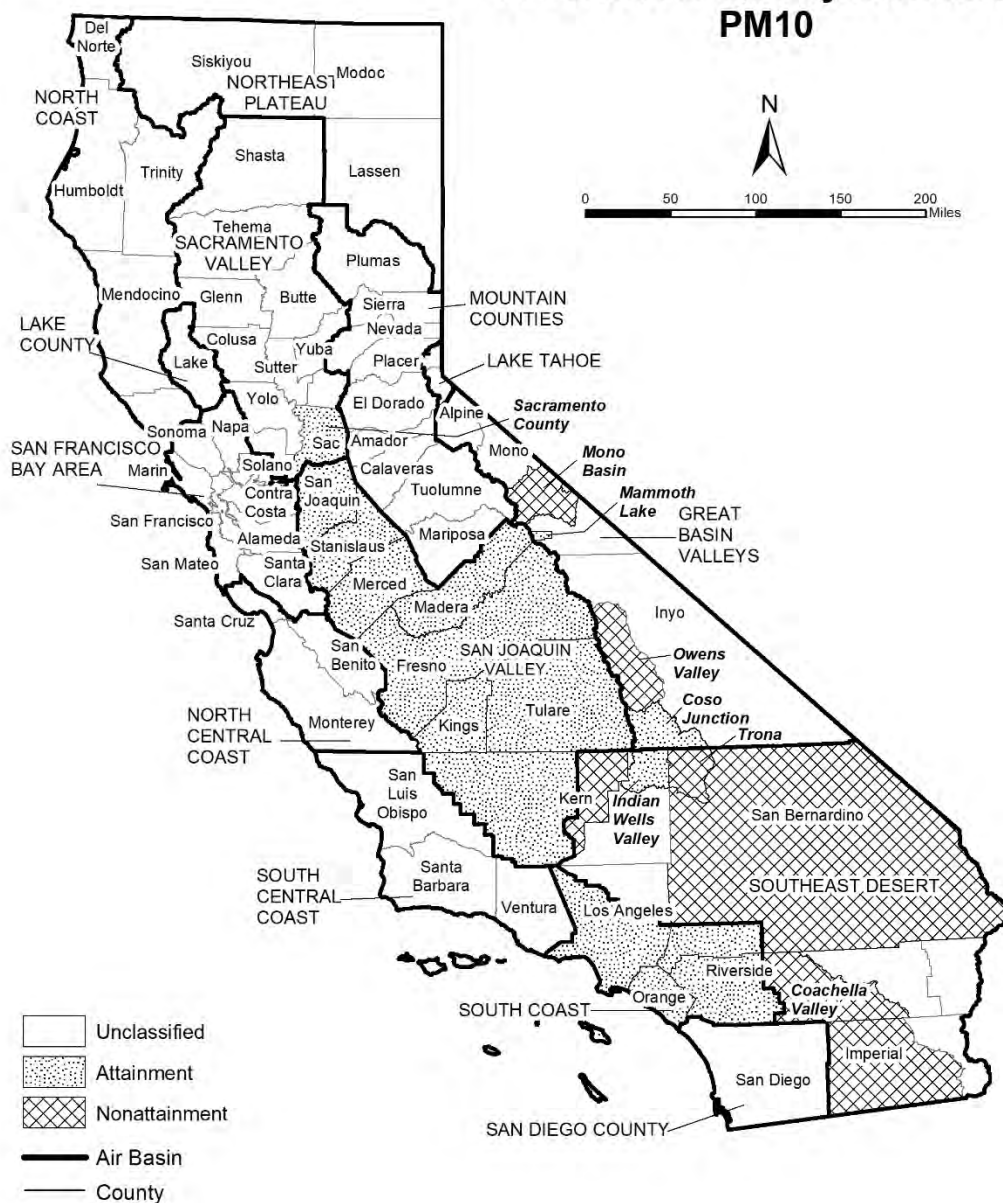
South Coast Air Basin:

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.

FIGURE 12

# Area Designations for National Ambient Air Quality Standards PM<sub>10</sub>



Source Date:  
October 2018  
Air Quality Planning and Science Division

**TABLE 12**

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

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

\* 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.

FIGURE 13

# Area Designations for National Ambient Air Quality Standards PM2.5





**TABLE 13**

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

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

\* 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.

**FIGURE 14**



**TABLE 14****National Ambient Air Quality Standards  
Area Designations for Carbon Monoxide\***

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

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

**FIGURE 15**



Source Date:  
October 2018  
Air Quality Planning and Science Division

**TABLE 15****National Ambient Air Quality Standards  
Area Designations for Nitrogen Dioxide\***

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

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

**FIGURE 16**



Source Date:  
October 2018  
Air Quality Planning and Science Division

**TABLE 16**

**National Ambient Air Quality Standards  
Area Designations for Sulfur Dioxide\***

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

\* 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<sub>2</sub> standard of 75 ppb.

(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.

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.

FIGURE 17

# Area Designations for National Ambient Air Quality Standards LEAD





**TABLE 17**

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

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

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

## **APPENDIX 3.1:**

### **CALEEMOD CONSTRUCTION (UNMITIGATED) EMISSIONS MODEL OUTPUTS**

*This page intentionally left blank*

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**1130 South Hope Street (Unmitigated)**  
**Los Angeles-South Coast County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	62.00	Space	0.00	5,479.00	0
Other Non-Asphalt Surfaces	2.35	1000sqft	0.05	2,350.00	0
Hotel	144.00	Room	0.13	61,304.00	0
Regional Shopping Center	0.38	1000sqft	0.00	378.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

### 1.3 User Entered Comments & Non-Default Data

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

## Project Characteristics -

Land Use - Total Project site is 0.18 acres.

Construction Phase - Construction Schedule based on consultation with the Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Grading - For purposes of analysis, it is assumed that 1 acre will be disturbed per day

Architectural Coating - Rule 1113

Vehicle Trips - Trip characteristics based on information provided in the 1130 South Hope Street Traffic Impact Study prepared by KOA

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential 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	1.00	10.00
tblConstructionPhase	NumDays	2.00	55.00
tblConstructionPhase	NumDays	100.00	262.00
tblConstructionPhase	NumDays	5.00	4.00
tblConstructionPhase	NumDays	5.00	7.00
tblEnergyUse	LightingElect	1.75	1.23
tblEnergyUse	LightingElect	5.44	3.81

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblEnergyUse	LightingElect	5.61	3.93
tblEnergyUse	T24E	3.92	2.74
tblEnergyUse	T24E	6.47	4.53
tblEnergyUse	T24E	4.58	3.21
tblEnergyUse	T24NG	55.15	38.61
tblEnergyUse	T24NG	1.92	1.34
tblGrading	AcresOfGrading	0.00	55.00
tblGrading	MaterialExported	0.00	6,233.00
tblLandUse	LandUseSquareFeet	24,800.00	5,479.00
tblLandUse	LandUseSquareFeet	209,088.00	61,304.00
tblLandUse	LandUseSquareFeet	380.00	378.00
tblLandUse	LotAcreage	0.56	0.00
tblLandUse	LotAcreage	4.80	0.13
tblLandUse	LotAcreage	0.01	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblOffRoadEquipment	UsageHours	7.00	8.00
tblVehicleEF	HHD	0.62	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	2.47	6.23
tblVehicleEF	HHD	1.15	0.58
tblVehicleEF	HHD	3.30	9.5390e-003
tblVehicleEF	HHD	4,690.45	1,172.50
tblVehicleEF	HHD	1,639.83	1,482.70
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	20.39	6.32
tblVehicleEF	HHD	3.81	3.60
tblVehicleEF	HHD	19.54	2.06
tblVehicleEF	HHD	0.01	3.9370e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.7670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.7700e-004
tblVehicleEF	HHD	0.62	0.45
tblVehicleEF	HHD	7.9000e-005	5.0000e-006

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.9500e-004	1.5080e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.7700e-004
tblVehicleEF	HHD	0.72	0.52
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.9500e-004	1.5080e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.80	6.09
tblVehicleEF	HHD	1.16	0.59
tblVehicleEF	HHD	3.13	9.0610e-003
tblVehicleEF	HHD	4,968.94	1,168.97
tblVehicleEF	HHD	1,639.83	1,482.70
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	21.04	6.13
tblVehicleEF	HHD	3.60	3.41
tblVehicleEF	HHD	19.53	2.06
tblVehicleEF	HHD	0.01	3.4420e-003
tblVehicleEF	HHD	0.06	0.06



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.2930e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.8200e-004
tblVehicleEF	HHD	0.58	0.47
tblVehicleEF	HHD	1.1400e-004	8.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.8400e-004	1.4870e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.5700e-004	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.8200e-004
tblVehicleEF	HHD	0.68	0.55
tblVehicleEF	HHD	1.1400e-004	8.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.8400e-004	1.4870e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.67	0.02
tblVehicleEF	HHD	0.09	3.6360e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	3.41	6.32
tblVehicleEF	HHD	1.15	0.38
tblVehicleEF	HHD	3.33	9.6340e-003
tblVehicleEF	HHD	4,305.87	1,158.96
tblVehicleEF	HHD	1,639.83	1,430.09
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	19.48	6.47
tblVehicleEF	HHD	3.75	3.49
tblVehicleEF	HHD	19.55	2.06
tblVehicleEF	HHD	0.02	4.3710e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.02	4.1820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.7580e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	8.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.1500e-004
tblVehicleEF	HHD	0.66	0.42
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.2900e-004	1.6010e-003
tblVehicleEF	HHD	0.08	3.0000e-006

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	8.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.1500e-004
tblVehicleEF	HHD	0.78	0.48
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.09
tblVehicleEF	HHD	4.2900e-004	1.6010e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	LDA	5.3420e-003	3.0240e-003
tblVehicleEF	LDA	5.4040e-003	0.05
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	1.15	2.10
tblVehicleEF	LDA	274.33	272.47
tblVehicleEF	LDA	57.08	53.62
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	2.7480e-003	2.6780e-003
tblVehicleEF	LDA	5.9000e-004	5.2700e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	5.6740e-003	3.2280e-003
tblVehicleEF	LDA	4.8010e-003	0.04
tblVehicleEF	LDA	0.72	0.79
tblVehicleEF	LDA	0.98	1.79
tblVehicleEF	LDA	287.10	284.40
tblVehicleEF	LDA	57.08	53.05
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDA	2.8760e-003	2.7950e-003
tblVehicleEF	LDA	5.8700e-004	5.2200e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.2330e-003	2.9600e-003
tblVehicleEF	LDA	5.5300e-003	0.05
tblVehicleEF	LDA	0.63	0.69
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	269.66	268.07
tblVehicleEF	LDA	57.08	53.75
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.7010e-003	2.6350e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDA	5.9100e-004	5.2800e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.02	7.7270e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.68	1.45
tblVehicleEF	LDT1	2.78	2.27
tblVehicleEF	LDT1	341.15	320.55
tblVehicleEF	LDT1	69.44	63.67
tblVehicleEF	LDT1	0.16	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.4330e-003	3.1520e-003
tblVehicleEF	LDT1	7.4300e-004	6.2600e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.02	8.1770e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.82	1.58
tblVehicleEF	LDT1	2.36	1.93
tblVehicleEF	LDT1	356.02	332.71
tblVehicleEF	LDT1	69.44	63.00
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.17	0.31
tblVehicleEF	LDT1	3.5840e-003	3.2710e-003
tblVehicleEF	LDT1	7.3600e-004	6.1900e-004
tblVehicleEF	LDT1	0.20	0.20

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.18	0.34
tblVehicleEF	LDT1	0.02	7.5820e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.63	1.41
tblVehicleEF	LDT1	2.87	2.35
tblVehicleEF	LDT1	335.69	316.06
tblVehicleEF	LDT1	69.44	63.82
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.22
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.82
tblVehicleEF	LDT1	0.20	0.36
tblVehicleEF	LDT1	3.3780e-003	3.1070e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.22



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.82
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9730e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	343.42
tblVehicleEF	LDT2	78.07	68.73
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3760e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.2910e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	355.31
tblVehicleEF	LDT2	78.07	67.99
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	3.9980e-003	3.4930e-003
tblVehicleEF	LDT2	8.0000e-004	6.6800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8730e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
tblVehicleEF	LDT2	1.39	2.74
tblVehicleEF	LDT2	375.62	339.02
tblVehicleEF	LDT2	78.07	68.90
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	3.7630e-003	3.3320e-003
tblVehicleEF	LDT2	8.0400e-004	6.7700e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.6110e-003
tblVehicleEF	LHD1	0.01	5.6770e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.04
tblVehicleEF	LHD1	33.34	12.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.63
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.1460e-003	2.5540e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5610e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.55

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5150e-003
tblVehicleEF	LHD1	3.8500e-004	1.2400e-004
tblVehicleEF	LHD1	3.1460e-003	2.5540e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5610e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.6230e-003
tblVehicleEF	LHD1	0.01	5.7930e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.66
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.06
tblVehicleEF	LHD1	33.34	12.39
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.89	0.59
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.7600e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.1600e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5150e-003
tblVehicleEF	LHD1	3.8300e-004	1.2300e-004
tblVehicleEF	LHD1	4.7100e-003	3.7600e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.1600e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.5970e-003	5.6090e-003
tblVehicleEF	LHD1	0.01	5.6460e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.64
tblVehicleEF	LHD1	2.81	1.15

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.03
tblVehicleEF	LHD1	33.34	12.50
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.94	0.62
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.6900e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5400e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5150e-003
tblVehicleEF	LHD1	3.8600e-004	1.2400e-004
tblVehicleEF	LHD1	3.3080e-003	2.6900e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD1	1.8850e-003	1.5400e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9440e-003
tblVehicleEF	LHD2	4.2980e-003	3.9460e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.77
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.37
tblVehicleEF	LHD2	27.88	9.65
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.65	0.81
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.1380e-003	1.5770e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD2	7.4500e-004	9.7800e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5770e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7800e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9530e-003
tblVehicleEF	LHD2	4.3570e-003	3.9910e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.74
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.38
tblVehicleEF	LHD2	27.88	9.59
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.61	0.76
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.6960e-003	2.3210e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3550e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0300e-004	9.5000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3210e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3550e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9420e-003
tblVehicleEF	LHD2	4.2820e-003	3.9330e-003
tblVehicleEF	LHD2	8.5780e-003	0.01

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.43
tblVehicleEF	LHD2	1.38	0.78
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.37
tblVehicleEF	LHD2	27.88	9.66
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.64	0.80
tblVehicleEF	LHD2	0.56	0.24
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.1610e-003	1.6340e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	9.5000e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.39
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0400e-004	9.6000e-005

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD2	1.1610e-003	1.6340e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.5000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.39
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.94	19.11
tblVehicleEF	MCY	9.66	8.52
tblVehicleEF	MCY	188.92	223.68
tblVehicleEF	MCY	44.52	59.56
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.06	1.08
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	0.65	0.66
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.98
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.2780e-003	2.2130e-003
tblVehicleEF	MCY	6.6300e-004	5.8900e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MCY	1.06	1.08
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	0.65	0.66
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.60	1.98
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.37
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.28
tblVehicleEF	MCY	44.52	57.67
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.73	1.72
tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.86
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.2000e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.72

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.86
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.25
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.96
tblVehicleEF	MCY	44.52	59.94
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.84
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	0.69	2.28
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2160e-003
tblVehicleEF	MCY	6.6700e-004	5.9300e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.84

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.28
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5350e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.10
tblVehicleEF	MDV	512.22	421.49
tblVehicleEF	MDV	103.14	83.59
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.34
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1410e-003
tblVehicleEF	MDV	1.0750e-003	8.2200e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9310e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.32
tblVehicleEF	MDV	2.12	2.63
tblVehicleEF	MDV	534.67	433.96
tblVehicleEF	MDV	103.14	82.70
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	5.3570e-003	4.2630e-003
tblVehicleEF	MDV	1.0680e-003	8.1300e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.05	0.04



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4070e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	416.89
tblVehicleEF	MDV	103.14	83.79
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	5.0480e-003	4.0950e-003
tblVehicleEF	MDV	1.0760e-003	8.2400e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.24	0.27
tblVehicleEF	MH	5.78	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	1.08	3.43
tblVehicleEF	MH	0.80	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	7.0500e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.12	0.08

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.30	0.27
tblVehicleEF	MH	5.44	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	0.99	3.24
tblVehicleEF	MH	0.76	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	1.41	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.58	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	6.9900e-004	0.00
tblVehicleEF	MH	1.41	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.58	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.22	0.27
tblVehicleEF	MH	5.83	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	1.06	3.37
tblVehicleEF	MH	0.80	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	1.08	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.08	0.00
tblVehicleEF	MH	0.08	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	4.4240e-003
tblVehicleEF	MHD	4.8560e-003	4.6020e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.39
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.14	1.44
tblVehicleEF	MHD	132.92	67.32
tblVehicleEF	MHD	1,150.98	1,070.87
tblVehicleEF	MHD	63.58	12.17
tblVehicleEF	MHD	0.49	0.47
tblVehicleEF	MHD	1.14	1.63
tblVehicleEF	MHD	9.96	1.29
tblVehicleEF	MHD	2.4800e-004	1.0730e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004
tblVehicleEF	MHD	2.3800e-004	1.0270e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.1350e-003	6.6800e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.3000e-004
tblVehicleEF	MHD	0.05	0.06

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	MHD	1.2810e-003	6.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4300e-004	1.2000e-004
tblVehicleEF	MHD	1.1350e-003	6.6800e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.3000e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.1930e-003
tblVehicleEF	MHD	4.9280e-003	4.6540e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	0.38	0.48
tblVehicleEF	MHD	5.83	1.36
tblVehicleEF	MHD	140.78	68.14
tblVehicleEF	MHD	1,150.98	1,070.88
tblVehicleEF	MHD	63.58	12.05
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.28
tblVehicleEF	MHD	2.0900e-004	9.0700e-004
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MHD	2.0000e-004	8.6800e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3800e-004	1.1900e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07
tblVehicleEF	MHD	0.02	4.7550e-003
tblVehicleEF	MHD	4.8360e-003	4.5850e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.52	0.49
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.20	1.45
tblVehicleEF	MHD	122.05	66.18

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MHD	1,150.98	1,070.87
tblVehicleEF	MHD	63.58	12.19
tblVehicleEF	MHD	0.47	0.47
tblVehicleEF	MHD	1.12	1.60
tblVehicleEF	MHD	9.97	1.29
tblVehicleEF	MHD	3.0200e-004	1.3020e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004
tblVehicleEF	MHD	2.8900e-004	1.2460e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.1690e-003	6.9100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.2100e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4400e-004	1.2100e-004
tblVehicleEF	MHD	1.1690e-003	6.9100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.2100e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.16



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	OBUS	0.01	8.4750e-003
tblVehicleEF	OBUS	7.7220e-003	6.9630e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.60
tblVehicleEF	OBUS	0.53	0.78
tblVehicleEF	OBUS	5.41	2.39
tblVehicleEF	OBUS	112.13	94.21
tblVehicleEF	OBUS	1,260.49	1,391.50
tblVehicleEF	OBUS	67.92	19.24
tblVehicleEF	OBUS	0.51	0.46
tblVehicleEF	OBUS	1.55	1.57
tblVehicleEF	OBUS	2.60	0.75
tblVehicleEF	OBUS	1.1400e-004	7.8900e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4100e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	8.9600e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7400e-004	1.9000e-004
tblVehicleEF	OBUS	1.4340e-003	1.8390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.4100e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5340e-003
tblVehicleEF	OBUS	7.8490e-003	7.0850e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.58
tblVehicleEF	OBUS	0.54	0.80
tblVehicleEF	OBUS	5.11	2.26
tblVehicleEF	OBUS	117.81	94.08
tblVehicleEF	OBUS	1,260.49	1,391.52
tblVehicleEF	OBUS	67.92	19.02
tblVehicleEF	OBUS	0.53	0.45
tblVehicleEF	OBUS	1.46	1.48
tblVehicleEF	OBUS	2.57	0.74
tblVehicleEF	OBUS	9.6000e-005	6.7100e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	9.2000e-005	6.4200e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	OBUS	2.1010e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3070e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	1.1360e-003	8.9500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8800e-004
tblVehicleEF	OBUS	2.1010e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0830e-003	1.3070e-003
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4130e-003
tblVehicleEF	OBUS	7.6880e-003	6.9290e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.61
tblVehicleEF	OBUS	0.53	0.78
tblVehicleEF	OBUS	5.47	2.42
tblVehicleEF	OBUS	104.30	94.40
tblVehicleEF	OBUS	1,260.49	1,391.49
tblVehicleEF	OBUS	67.92	19.29
tblVehicleEF	OBUS	0.49	0.47

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	OBUS	1.52	1.55
tblVehicleEF	OBUS	2.61	0.76
tblVehicleEF	OBUS	1.3900e-004	9.5300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.3300e-004	9.1200e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9220e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2400e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	1.0070e-003	8.9800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9220e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.4700e-004	9.2400e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0600e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	0.06	6.7770e-003
tblVehicleEF	SBUS	8.15	2.99
tblVehicleEF	SBUS	0.72	0.60
tblVehicleEF	SBUS	7.31	0.93
tblVehicleEF	SBUS	1,121.00	354.63
tblVehicleEF	SBUS	1,079.30	1,100.97
tblVehicleEF	SBUS	55.06	5.73
tblVehicleEF	SBUS	9.20	3.14
tblVehicleEF	SBUS	4.17	4.65
tblVehicleEF	SBUS	12.12	0.90
tblVehicleEF	SBUS	9.3410e-003	3.9540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	8.9370e-003	3.7830e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	3.3650e-003	9.8900e-004
tblVehicleEF	SBUS	0.03	8.5880e-003
tblVehicleEF	SBUS	0.97	0.34
tblVehicleEF	SBUS	1.7650e-003	5.2700e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3860e-003
tblVehicleEF	SBUS	0.01	0.01

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	6.7700e-004	5.7000e-005
tblVehicleEF	SBUS	3.3650e-003	9.8900e-004
tblVehicleEF	SBUS	0.03	8.5880e-003
tblVehicleEF	SBUS	1.40	0.49
tblVehicleEF	SBUS	1.7650e-003	5.2700e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.1400e-003
tblVehicleEF	SBUS	0.06	6.0470e-003
tblVehicleEF	SBUS	8.04	2.95
tblVehicleEF	SBUS	0.73	0.61
tblVehicleEF	SBUS	5.94	0.76
tblVehicleEF	SBUS	1,171.46	362.29
tblVehicleEF	SBUS	1,079.30	1,100.99
tblVehicleEF	SBUS	55.06	5.44
tblVehicleEF	SBUS	9.50	3.21
tblVehicleEF	SBUS	3.93	4.39
tblVehicleEF	SBUS	12.09	0.90
tblVehicleEF	SBUS	7.8750e-003	3.3400e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	7.5340e-003	3.1960e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	4.9570e-003	1.4290e-003
tblVehicleEF	SBUS	0.03	8.7250e-003
tblVehicleEF	SBUS	0.97	0.34
tblVehicleEF	SBUS	2.5080e-003	7.3100e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.03
tblVehicleEF	SBUS	0.01	3.4580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5400e-004	5.4000e-005
tblVehicleEF	SBUS	4.9570e-003	1.4290e-003
tblVehicleEF	SBUS	0.03	8.7250e-003
tblVehicleEF	SBUS	1.40	0.49
tblVehicleEF	SBUS	2.5080e-003	7.3100e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0350e-003
tblVehicleEF	SBUS	0.07	6.9450e-003
tblVehicleEF	SBUS	8.31	3.04
tblVehicleEF	SBUS	0.72	0.60
tblVehicleEF	SBUS	7.56	0.96
tblVehicleEF	SBUS	1,051.30	344.05
tblVehicleEF	SBUS	1,079.30	1,100.97
tblVehicleEF	SBUS	55.06	5.78

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	8.80	3.05
tblVehicleEF	SBUS	4.10	4.57
tblVehicleEF	SBUS	12.13	0.90
tblVehicleEF	SBUS	0.01	4.8000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	0.01	4.5930e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	3.4320e-003	1.0030e-003
tblVehicleEF	SBUS	0.03	9.0230e-003
tblVehicleEF	SBUS	0.98	0.34
tblVehicleEF	SBUS	1.6940e-003	5.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8100e-004	5.7000e-005
tblVehicleEF	SBUS	3.4320e-003	1.0030e-003
tblVehicleEF	SBUS	0.03	9.0230e-003
tblVehicleEF	SBUS	1.41	0.49
tblVehicleEF	SBUS	1.6940e-003	5.0600e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.07



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	0.43	0.04
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.22	45.42
tblVehicleEF	UBUS	8.87	0.71
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.61
tblVehicleEF	UBUS	9.98	0.47
tblVehicleEF	UBUS	15.36	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	4.1440e-003	6.6500e-004
tblVehicleEF	UBUS	0.07	8.4730e-003
tblVehicleEF	UBUS	2.3870e-003	4.9100e-004
tblVehicleEF	UBUS	0.85	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.4410e-003
tblVehicleEF	UBUS	1.1250e-003	8.5000e-005
tblVehicleEF	UBUS	4.1440e-003	6.6500e-004
tblVehicleEF	UBUS	0.07	8.4730e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	UBUS	2.3870e-003	4.9100e-004
tblVehicleEF	UBUS	3.56	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.74	0.05
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.42
tblVehicleEF	UBUS	7.69	0.63
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.46
tblVehicleEF	UBUS	9.41	0.47
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	5.9080e-003	9.6200e-004
tblVehicleEF	UBUS	0.07	8.7330e-003
tblVehicleEF	UBUS	3.2830e-003	6.7600e-004
tblVehicleEF	UBUS	0.86	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.4410e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	UBUS	1.1050e-003	8.4000e-005
tblVehicleEF	UBUS	5.9080e-003	9.6200e-004
tblVehicleEF	UBUS	0.07	8.7330e-003
tblVehicleEF	UBUS	3.2830e-003	6.7600e-004
tblVehicleEF	UBUS	3.57	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.21	45.42
tblVehicleEF	UBUS	9.08	0.73
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.64
tblVehicleEF	UBUS	9.79	0.47
tblVehicleEF	UBUS	15.38	0.09
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	4.7000e-003	6.4800e-004
tblVehicleEF	UBUS	0.08	9.0360e-003
tblVehicleEF	UBUS	2.5010e-003	4.6600e-004
tblVehicleEF	UBUS	0.85	0.09

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.4410e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	6.4800e-004
tblVehicleEF	UBUS	0.08	9.0360e-003
tblVehicleEF	UBUS	2.5010e-003	4.6600e-004
tblVehicleEF	UBUS	3.55	5.97
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	ST_TR	49.97	46.12
tblVehicleTrips	SU_TR	25.24	21.10
tblVehicleTrips	WD_TR	8.17	8.36
tblVehicleTrips	WD_TR	42.70	37.04

## 2.0 Emissions Summary

---

## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
2021	1.3732	16.6811	8.0260	0.0233	7.3990	0.6563	8.0553	3.5094	0.6043	4.1137	0.0000	2,384.0665	2,384.0665	0.4551	0.0000	2,395.2649
2022	73.0230	9.0625	10.7233	0.0179	0.3946	0.4285	0.8026	0.1063	0.4053	0.4817	0.0000	1,774.4920	1,774.4920	0.3999	0.0000	1,784.4898
Maximum	73.0230	16.6811	10.7233	0.0233	7.3990	0.6563	8.0553	3.5094	0.6043	4.1137	0.0000	2,384.0665	2,384.0665	0.4551	0.0000	2,395.2649

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.3732	16.6811	8.0260	0.0233	3.0708	0.6563	3.7271	1.4191	0.6043	2.0234	0.0000	2,384.0665	2,384.0665	0.4551	0.0000	2,395.2649
2022	73.0230	9.0625	10.7233	0.0179	0.3946	0.4285	0.8026	0.1063	0.4053	0.4817	0.0000	1,774.4920	1,774.4920	0.3999	0.0000	1,784.4898
Maximum	73.0230	16.6811	10.7233	0.0233	3.0708	0.6563	3.7271	1.4191	0.6043	2.0234	0.0000	2,384.0665	2,384.0665	0.4551	0.0000	2,395.2649

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	55.54	0.00	48.86	57.81	0.00	45.49	0.00	0.00	0.00	0.00	0.00	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-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	lb/day										lb/day					
Area	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Energy	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
Mobile	2.8715	5.1531	25.6302	0.0682	6.1697	0.0680	6.2377	1.6477	0.0638	1.7115		7,084.5364	7,084.5364	0.5187		7,097.5047
<b>Total</b>	<b>4.3336</b>	<b>5.8692</b>	<b>26.2529</b>	<b>0.0725</b>	<b>6.1697</b>	<b>0.1225</b>	<b>6.2922</b>	<b>1.6477</b>	<b>0.1183</b>	<b>1.7660</b>		<b>7,943.7295</b>	<b>7,943.7295</b>	<b>0.5353</b>	<b>0.0158</b>	<b>7,961.8063</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Energy	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
Mobile	2.8715	5.1531	25.6302	0.0682	6.1697	0.0680	6.2377	1.6477	0.0638	1.7115		7,084.5364	7,084.5364	0.5187		7,097.5047
<b>Total</b>	<b>4.3336</b>	<b>5.8692</b>	<b>26.2529</b>	<b>0.0725</b>	<b>6.1697</b>	<b>0.1225</b>	<b>6.2922</b>	<b>1.6477</b>	<b>0.1183</b>	<b>1.7660</b>		<b>7,943.7295</b>	<b>7,943.7295</b>	<b>0.5353</b>	<b>0.0158</b>	<b>7,961.8063</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-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
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	5/10/2021	5/21/2021	5	10	
2	Grading	Grading	5/22/2021	8/6/2021	5	55	
3	Building Construction	Building Construction	8/7/2021	8/9/2022	5	262	
4	Architectural Coating	Architectural Coating	8/19/2022	10/6/2022	5	4	
5	Paving	Paving	9/7/2022	9/15/2022	5	7	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 55

Acres of Paving: 0.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 92,523; Non-Residential Outdoor: 30,841; Striped Parking Area: 470 (Architectural Coating – sqft)

#### OffRoad Equipment

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	1	8.00	212	0.43
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	779.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	29.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**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/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.0039	12.8926	4.2023	0.0145		0.4499	0.4499		0.4139	0.4139		1,402.046 2	1,402.046 2	0.4535		1,413.382 4
<b>Total</b>	<b>1.0039</b>	<b>12.8926</b>	<b>4.2023</b>	<b>0.0145</b>	<b>1.0605</b>	<b>0.4499</b>	<b>1.5104</b>	<b>0.1145</b>	<b>0.4139</b>	<b>0.5284</b>		<b>1,402.046 2</b>	<b>1,402.046 2</b>	<b>0.4535</b>		<b>1,413.382 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.0214</b>	<b>0.0147</b>	<b>0.2014</b>	<b>5.7000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>56.9385</b>	<b>56.9385</b>	<b>1.6800e-003</b>		<b>56.9804</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.2 Site Preparation - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	1.0039	12.8926	4.2023	0.0145		0.4499	0.4499		0.4139	0.4139	0.0000	1,402.046 2	1,402.046 2	0.4535		1,413.382 4
<b>Total</b>	<b>1.0039</b>	<b>12.8926</b>	<b>4.2023</b>	<b>0.0145</b>	<b>0.4136</b>	<b>0.4499</b>	<b>0.8635</b>	<b>0.0447</b>	<b>0.4139</b>	<b>0.4585</b>	<b>0.0000</b>	<b>1,402.046 2</b>	<b>1,402.046 2</b>	<b>0.4535</b>		<b>1,413.382 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.0214</b>	<b>0.0147</b>	<b>0.2014</b>	<b>5.7000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>56.9385</b>	<b>56.9385</b>	<b>1.6800e-003</b>		<b>56.9804</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**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/day										lb/day					
Fugitive Dust					7.0954	0.0000	7.0954	3.4267	0.0000	3.4267			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
<b>Total</b>	<b>1.2336</b>	<b>12.8671</b>	<b>6.2980</b>	<b>0.0116</b>	<b>7.0954</b>	<b>0.6442</b>	<b>7.7396</b>	<b>3.4267</b>	<b>0.5927</b>	<b>4.0194</b>		<b>1,128.2523</b>	<b>1,128.2523</b>	<b>0.3649</b>		<b>1,137.3748</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1181	3.7993	0.8908	0.0111	0.2477	0.0117	0.2593	0.0679	0.0112	0.0790		1,198.8757	1,198.8757	0.0814		1,200.9097
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	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.1395</b>	<b>3.8140</b>	<b>1.0922</b>	<b>0.0116</b>	<b>0.3036</b>	<b>0.0121</b>	<b>0.3157</b>	<b>0.0827</b>	<b>0.0116</b>	<b>0.0943</b>		<b>1,255.8142</b>	<b>1,255.8142</b>	<b>0.0830</b>		<b>1,257.8902</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.3 Grading - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7672	0.0000	2.7672	1.3364	0.0000	1.3364			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.252 3	1,128.252 3	0.3649		1,137.374 8
<b>Total</b>	<b>1.2336</b>	<b>12.8671</b>	<b>6.2980</b>	<b>0.0116</b>	<b>2.7672</b>	<b>0.6442</b>	<b>3.4114</b>	<b>1.3364</b>	<b>0.5927</b>	<b>1.9291</b>	<b>0.0000</b>	<b>1,128.252 3</b>	<b>1,128.252 3</b>	<b>0.3649</b>		<b>1,137.374 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1181	3.7993	0.8908	0.0111	0.2477	0.0117	0.2593	0.0679	0.0112	0.0790		1,198.875 7	1,198.875 7	0.0814		1,200.909 7
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	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.1395</b>	<b>3.8140</b>	<b>1.0922</b>	<b>0.0116</b>	<b>0.3036</b>	<b>0.0121</b>	<b>0.3157</b>	<b>0.0827</b>	<b>0.0116</b>	<b>0.0943</b>		<b>1,255.814 2</b>	<b>1,255.814 2</b>	<b>0.0830</b>		<b>1,257.890 2</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.4 Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.1034	6.5788	0.0119		0.4761	0.4761		0.4380	0.4380		1,155.7005	1,155.7005	0.3738		1,165.0449
<b>Total</b>	<b>0.8588</b>	<b>9.1034</b>	<b>6.5788</b>	<b>0.0119</b>		<b>0.4761</b>	<b>0.4761</b>		<b>0.4380</b>	<b>0.4380</b>		<b>1,155.7005</b>	<b>1,155.7005</b>	<b>0.3738</b>		<b>1,165.0449</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0334	1.0680	0.2792	2.8300e-003	0.0704	2.1800e-003	0.0726	0.0203	2.0900e-003	0.0224		302.3687	302.3687	0.0178		302.8140
Worker	0.1243	0.0854	1.1680	3.3200e-003	0.3242	2.6200e-003	0.3268	0.0860	2.4100e-003	0.0884		330.2433	330.2433	9.7300e-003		330.4865
<b>Total</b>	<b>0.1578</b>	<b>1.1534</b>	<b>1.4472</b>	<b>6.1500e-003</b>	<b>0.3946</b>	<b>4.8000e-003</b>	<b>0.3994</b>	<b>0.1063</b>	<b>4.5000e-003</b>	<b>0.1107</b>		<b>632.6120</b>	<b>632.6120</b>	<b>0.0275</b>		<b>633.3006</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.4 Building Construction - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.1034	6.5788	0.0119		0.4761	0.4761		0.4380	0.4380	0.0000	1,155.7005	1,155.7005	0.3738		1,165.0449
<b>Total</b>	<b>0.8588</b>	<b>9.1034</b>	<b>6.5788</b>	<b>0.0119</b>		<b>0.4761</b>	<b>0.4761</b>		<b>0.4380</b>	<b>0.4380</b>	<b>0.0000</b>	<b>1,155.7005</b>	<b>1,155.7005</b>	<b>0.3738</b>		<b>1,165.0449</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0334	1.0680	0.2792	2.8300e-003	0.0704	2.1800e-003	0.0726	0.0203	2.0900e-003	0.0224		302.3687	302.3687	0.0178		302.8140
Worker	0.1243	0.0854	1.1680	3.3200e-003	0.3242	2.6200e-003	0.3268	0.0860	2.4100e-003	0.0884		330.2433	330.2433	9.7300e-003		330.4865
<b>Total</b>	<b>0.1578</b>	<b>1.1534</b>	<b>1.4472</b>	<b>6.1500e-003</b>	<b>0.3946</b>	<b>4.8000e-003</b>	<b>0.3994</b>	<b>0.1063</b>	<b>4.5000e-003</b>	<b>0.1107</b>		<b>632.6120</b>	<b>632.6120</b>	<b>0.0275</b>		<b>633.3006</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**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/day										lb/day					
Off-Road	0.7649	7.9697	6.4378	0.0119		0.4036	0.4036		0.3713	0.3713		1,156.1310	1,156.1310	0.3739		1,165.4789
<b>Total</b>	<b>0.7649</b>	<b>7.9697</b>	<b>6.4378</b>	<b>0.0119</b>		<b>0.4036</b>	<b>0.4036</b>		<b>0.3713</b>	<b>0.3713</b>		<b>1,156.1310</b>	<b>1,156.1310</b>	<b>0.3739</b>		<b>1,165.4789</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0314	1.0156	0.2642	2.8000e-003	0.0704	1.9100e-003	0.0723	0.0203	1.8300e-003	0.0221		299.7345	299.7345	0.0172		300.1645
Worker	0.1164	0.0772	1.0777	3.2000e-003	0.3242	2.5400e-003	0.3267	0.0860	2.3400e-003	0.0883		318.6266	318.6266	8.7900e-003		318.8464
<b>Total</b>	<b>0.1478</b>	<b>1.0928</b>	<b>1.3418</b>	<b>6.0000e-003</b>	<b>0.3946</b>	<b>4.4500e-003</b>	<b>0.3990</b>	<b>0.1063</b>	<b>4.1700e-003</b>	<b>0.1104</b>		<b>618.3611</b>	<b>618.3611</b>	<b>0.0260</b>		<b>619.0109</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.4 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7649	7.9697	6.4378	0.0119		0.4036	0.4036		0.3713	0.3713	0.0000	1,156.1310	1,156.1310	0.3739		1,165.4789
<b>Total</b>	<b>0.7649</b>	<b>7.9697</b>	<b>6.4378</b>	<b>0.0119</b>		<b>0.4036</b>	<b>0.4036</b>		<b>0.3713</b>	<b>0.3713</b>	<b>0.0000</b>	<b>1,156.1310</b>	<b>1,156.1310</b>	<b>0.3739</b>		<b>1,165.4789</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0314	1.0156	0.2642	2.8000e-003	0.0704	1.9100e-003	0.0723	0.0203	1.8300e-003	0.0221		299.7345	299.7345	0.0172		300.1645
Worker	0.1164	0.0772	1.0777	3.2000e-003	0.3242	2.5400e-003	0.3267	0.0860	2.3400e-003	0.0883		318.6266	318.6266	8.7900e-003		318.8464
<b>Total</b>	<b>0.1478</b>	<b>1.0928</b>	<b>1.3418</b>	<b>6.0000e-003</b>	<b>0.3946</b>	<b>4.4500e-003</b>	<b>0.3990</b>	<b>0.1063</b>	<b>4.1700e-003</b>	<b>0.1104</b>		<b>618.3611</b>	<b>618.3611</b>	<b>0.0260</b>		<b>619.0109</b>



1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.5 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/day										lb/day					
Archit. Coating	72.0186					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
<b>Total</b>	<b>72.2914</b>	<b>1.8780</b>	<b>2.4181</b>	<b>3.9600e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0244</b>		<b>375.8749</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0241	0.0160	0.2230	6.6000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		65.9227	65.9227	1.8200e-003		65.9682
<b>Total</b>	<b>0.0241</b>	<b>0.0160</b>	<b>0.2230</b>	<b>6.6000e-004</b>	<b>0.0671</b>	<b>5.2000e-004</b>	<b>0.0676</b>	<b>0.0178</b>	<b>4.8000e-004</b>	<b>0.0183</b>		<b>65.9227</b>	<b>65.9227</b>	<b>1.8200e-003</b>		<b>65.9682</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.5 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.0186					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
<b>Total</b>	<b>72.2914</b>	<b>1.8780</b>	<b>2.4181</b>	<b>3.9600e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0244</b>		<b>375.8749</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0241	0.0160	0.2230	6.6000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		65.9227	65.9227	1.8200e-003		65.9682
<b>Total</b>	<b>0.0241</b>	<b>0.0160</b>	<b>0.2230</b>	<b>6.6000e-004</b>	<b>0.0671</b>	<b>5.2000e-004</b>	<b>0.0676</b>	<b>0.0178</b>	<b>4.8000e-004</b>	<b>0.0183</b>		<b>65.9227</b>	<b>65.9227</b>	<b>1.8200e-003</b>		<b>65.9682</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6554	6.2368	7.5991	0.0119		0.3179	0.3179		0.2948	0.2948		1,111.6333	1,111.6333	0.3373		1,120.0668
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6554</b>	<b>6.2368</b>	<b>7.5991</b>	<b>0.0119</b>		<b>0.3179</b>	<b>0.3179</b>		<b>0.2948</b>	<b>0.2948</b>		<b>1,111.6333</b>	<b>1,111.6333</b>	<b>0.3373</b>		<b>1,120.0668</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0522	0.0346	0.4831	1.4300e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		142.8326	142.8326	3.9400e-003		142.9312
<b>Total</b>	<b>0.0522</b>	<b>0.0346</b>	<b>0.4831</b>	<b>1.4300e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>		<b>142.8326</b>	<b>142.8326</b>	<b>3.9400e-003</b>		<b>142.9312</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6554	6.2368	7.5991	0.0119		0.3179	0.3179		0.2948	0.2948	0.0000	1,111.6333	1,111.6333	0.3373		1,120.0668
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6554</b>	<b>6.2368</b>	<b>7.5991</b>	<b>0.0119</b>		<b>0.3179</b>	<b>0.3179</b>		<b>0.2948</b>	<b>0.2948</b>	<b>0.0000</b>	<b>1,111.6333</b>	<b>1,111.6333</b>	<b>0.3373</b>		<b>1,120.0668</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0522	0.0346	0.4831	1.4300e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		142.8326	142.8326	3.9400e-003		142.9312
<b>Total</b>	<b>0.0522</b>	<b>0.0346</b>	<b>0.4831</b>	<b>1.4300e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>		<b>142.8326</b>	<b>142.8326</b>	<b>3.9400e-003</b>		<b>142.9312</b>

**4.0 Operational Detail - Mobile**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8715	5.1531	25.6302	0.0682	6.1697	0.0680	6.2377	1.6477	0.0638	1.7115		7,084.5364	7,084.5364	0.5187		7,097.5047
Unmitigated	2.8715	5.1531	25.6302	0.0682	6.1697	0.0680	6.2377	1.6477	0.0638	1.7115		7,084.5364	7,084.5364	0.5187		7,097.5047

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,204.00	1,179.36	856.80	2,746,194	2,746,194
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	14.07	17.53	8.02	29,635	29,635
Total	1,218.07	1,196.89	864.82	2,775,829	2,775,829

**4.3 Trip Type Information**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Hotel	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Regional Shopping Center	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
NaturalGas Mitigated	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
NaturalGas Unmitigated	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529

## 5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7301.05	0.0787	0.7158	0.6013	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.9476	858.9476	0.0165	0.0158	864.0519
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.69841	2.0000e-005	1.7000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.1998	0.1998	0.0000	0.0000	0.2010
<b>Total</b>		<b>0.0788</b>	<b>0.7160</b>	<b>0.6014</b>	<b>4.2900e-003</b>		<b>0.0544</b>	<b>0.0544</b>		<b>0.0544</b>	<b>0.0544</b>		<b>859.1474</b>	<b>859.1474</b>	<b>0.0165</b>	<b>0.0158</b>	<b>864.2529</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.30105	0.0787	0.7158	0.6013	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.9476	858.9476	0.0165	0.0158	864.0519
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.00169841	2.0000e-005	1.7000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.1998	0.1998	0.0000	0.0000	0.2010
<b>Total</b>		<b>0.0788</b>	<b>0.7160</b>	<b>0.6014</b>	<b>4.2900e-003</b>		<b>0.0544</b>	<b>0.0544</b>		<b>0.0544</b>	<b>0.0544</b>		<b>859.1474</b>	<b>859.1474</b>	<b>0.0165</b>	<b>0.0158</b>	<b>864.2529</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**



## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
Mitigated	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Unmitigated	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
<b>Total</b>	<b>1.3833</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0457</b>	<b>0.0457</b>	<b>1.2000e-004</b>		<b>0.0487</b>

1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
Architectural Coating	0.1573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
<b>Total</b>	<b>1.3833</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0457</b>	<b>0.0457</b>	<b>1.2000e-004</b>		<b>0.0487</b>

**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****Fire Pumps and Emergency Generators**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

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**

---

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**1130 South Hope Street (Unmitigated)**  
**Los Angeles-South Coast County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	62.00	Space	0.00	5,479.00	0
Other Non-Asphalt Surfaces	2.35	1000sqft	0.05	2,350.00	0
Hotel	144.00	Room	0.13	61,304.00	0
Regional Shopping Center	0.38	1000sqft	0.00	378.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

### 1.3 User Entered Comments & Non-Default Data

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

## Project Characteristics -

Land Use - Total Project site is 0.18 acres.

Construction Phase - Construction Schedule based on consultation with the Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Grading - For purposes of analysis, it is assumed that 1 acre will be disturbed per day

Architectural Coating - Rule 1113

Vehicle Trips - Trip characteristics based on information provided in the 1130 South Hope Street Traffic Impact Study prepared by KOA

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential 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	1.00	10.00
tblConstructionPhase	NumDays	2.00	55.00
tblConstructionPhase	NumDays	100.00	262.00
tblConstructionPhase	NumDays	5.00	4.00
tblConstructionPhase	NumDays	5.00	7.00
tblEnergyUse	LightingElect	1.75	1.23
tblEnergyUse	LightingElect	5.44	3.81

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblEnergyUse	LightingElect	5.61	3.93
tblEnergyUse	T24E	3.92	2.74
tblEnergyUse	T24E	6.47	4.53
tblEnergyUse	T24E	4.58	3.21
tblEnergyUse	T24NG	55.15	38.61
tblEnergyUse	T24NG	1.92	1.34
tblGrading	AcresOfGrading	0.00	55.00
tblGrading	MaterialExported	0.00	6,233.00
tblLandUse	LandUseSquareFeet	24,800.00	5,479.00
tblLandUse	LandUseSquareFeet	209,088.00	61,304.00
tblLandUse	LandUseSquareFeet	380.00	378.00
tblLandUse	LotAcreage	0.56	0.00
tblLandUse	LotAcreage	4.80	0.13
tblLandUse	LotAcreage	0.01	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblOffRoadEquipment	UsageHours	7.00	8.00
tblVehicleEF	HHD	0.62	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	2.47	6.23
tblVehicleEF	HHD	1.15	0.58
tblVehicleEF	HHD	3.30	9.5390e-003
tblVehicleEF	HHD	4,690.45	1,172.50
tblVehicleEF	HHD	1,639.83	1,482.70
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	20.39	6.32
tblVehicleEF	HHD	3.81	3.60
tblVehicleEF	HHD	19.54	2.06
tblVehicleEF	HHD	0.01	3.9370e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.7670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.7700e-004
tblVehicleEF	HHD	0.62	0.45
tblVehicleEF	HHD	7.9000e-005	5.0000e-006

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.9500e-004	1.5080e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.7700e-004
tblVehicleEF	HHD	0.72	0.52
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.9500e-004	1.5080e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.80	6.09
tblVehicleEF	HHD	1.16	0.59
tblVehicleEF	HHD	3.13	9.0610e-003
tblVehicleEF	HHD	4,968.94	1,168.97
tblVehicleEF	HHD	1,639.83	1,482.70
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	21.04	6.13
tblVehicleEF	HHD	3.60	3.41
tblVehicleEF	HHD	19.53	2.06
tblVehicleEF	HHD	0.01	3.4420e-003
tblVehicleEF	HHD	0.06	0.06



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.2930e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.8200e-004
tblVehicleEF	HHD	0.58	0.47
tblVehicleEF	HHD	1.1400e-004	8.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.8400e-004	1.4870e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.5700e-004	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.8200e-004
tblVehicleEF	HHD	0.68	0.55
tblVehicleEF	HHD	1.1400e-004	8.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.8400e-004	1.4870e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.67	0.02
tblVehicleEF	HHD	0.09	3.6360e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	3.41	6.32
tblVehicleEF	HHD	1.15	0.38
tblVehicleEF	HHD	3.33	9.6340e-003
tblVehicleEF	HHD	4,305.87	1,158.96
tblVehicleEF	HHD	1,639.83	1,430.09
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	19.48	6.47
tblVehicleEF	HHD	3.75	3.49
tblVehicleEF	HHD	19.55	2.06
tblVehicleEF	HHD	0.02	4.3710e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.02	4.1820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.7580e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	8.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.1500e-004
tblVehicleEF	HHD	0.66	0.42
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.2900e-004	1.6010e-003
tblVehicleEF	HHD	0.08	3.0000e-006

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	8.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.1500e-004
tblVehicleEF	HHD	0.78	0.48
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.09
tblVehicleEF	HHD	4.2900e-004	1.6010e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	LDA	5.3420e-003	3.0240e-003
tblVehicleEF	LDA	5.4040e-003	0.05
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	1.15	2.10
tblVehicleEF	LDA	274.33	272.47
tblVehicleEF	LDA	57.08	53.62
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	2.7480e-003	2.6780e-003
tblVehicleEF	LDA	5.9000e-004	5.2700e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	5.6740e-003	3.2280e-003
tblVehicleEF	LDA	4.8010e-003	0.04
tblVehicleEF	LDA	0.72	0.79
tblVehicleEF	LDA	0.98	1.79
tblVehicleEF	LDA	287.10	284.40
tblVehicleEF	LDA	57.08	53.05
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDA	2.8760e-003	2.7950e-003
tblVehicleEF	LDA	5.8700e-004	5.2200e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.2330e-003	2.9600e-003
tblVehicleEF	LDA	5.5300e-003	0.05
tblVehicleEF	LDA	0.63	0.69
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	269.66	268.07
tblVehicleEF	LDA	57.08	53.75
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.7010e-003	2.6350e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDA	5.9100e-004	5.2800e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.02	7.7270e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.68	1.45
tblVehicleEF	LDT1	2.78	2.27
tblVehicleEF	LDT1	341.15	320.55
tblVehicleEF	LDT1	69.44	63.67
tblVehicleEF	LDT1	0.16	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.4330e-003	3.1520e-003
tblVehicleEF	LDT1	7.4300e-004	6.2600e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.02	8.1770e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.82	1.58
tblVehicleEF	LDT1	2.36	1.93
tblVehicleEF	LDT1	356.02	332.71
tblVehicleEF	LDT1	69.44	63.00
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.17	0.31
tblVehicleEF	LDT1	3.5840e-003	3.2710e-003
tblVehicleEF	LDT1	7.3600e-004	6.1900e-004
tblVehicleEF	LDT1	0.20	0.20

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.18	0.34
tblVehicleEF	LDT1	0.02	7.5820e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.63	1.41
tblVehicleEF	LDT1	2.87	2.35
tblVehicleEF	LDT1	335.69	316.06
tblVehicleEF	LDT1	69.44	63.82
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.22
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.82
tblVehicleEF	LDT1	0.20	0.36
tblVehicleEF	LDT1	3.3780e-003	3.1070e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.22



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.82
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9730e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	343.42
tblVehicleEF	LDT2	78.07	68.73
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3760e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.2910e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	355.31
tblVehicleEF	LDT2	78.07	67.99
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	3.9980e-003	3.4930e-003
tblVehicleEF	LDT2	8.0000e-004	6.6800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8730e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
tblVehicleEF	LDT2	1.39	2.74
tblVehicleEF	LDT2	375.62	339.02
tblVehicleEF	LDT2	78.07	68.90
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	3.7630e-003	3.3320e-003
tblVehicleEF	LDT2	8.0400e-004	6.7700e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.6110e-003
tblVehicleEF	LHD1	0.01	5.6770e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.04
tblVehicleEF	LHD1	33.34	12.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.63
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.1460e-003	2.5540e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5610e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.55

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5150e-003
tblVehicleEF	LHD1	3.8500e-004	1.2400e-004
tblVehicleEF	LHD1	3.1460e-003	2.5540e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5610e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.6230e-003
tblVehicleEF	LHD1	0.01	5.7930e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.66
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.06
tblVehicleEF	LHD1	33.34	12.39
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.89	0.59
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.7600e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.1600e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5150e-003
tblVehicleEF	LHD1	3.8300e-004	1.2300e-004
tblVehicleEF	LHD1	4.7100e-003	3.7600e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.1600e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.5970e-003	5.6090e-003
tblVehicleEF	LHD1	0.01	5.6460e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.64
tblVehicleEF	LHD1	2.81	1.15

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.03
tblVehicleEF	LHD1	33.34	12.50
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.94	0.62
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.6900e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5400e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5150e-003
tblVehicleEF	LHD1	3.8600e-004	1.2400e-004
tblVehicleEF	LHD1	3.3080e-003	2.6900e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD1	1.8850e-003	1.5400e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9440e-003
tblVehicleEF	LHD2	4.2980e-003	3.9460e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.77
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.37
tblVehicleEF	LHD2	27.88	9.65
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.65	0.81
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.1380e-003	1.5770e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD2	7.4500e-004	9.7800e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5770e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7800e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9530e-003
tblVehicleEF	LHD2	4.3570e-003	3.9910e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.74
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.38
tblVehicleEF	LHD2	27.88	9.59
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.61	0.76
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.6960e-003	2.3210e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3550e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0300e-004	9.5000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3210e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3550e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9420e-003
tblVehicleEF	LHD2	4.2820e-003	3.9330e-003
tblVehicleEF	LHD2	8.5780e-003	0.01

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.43
tblVehicleEF	LHD2	1.38	0.78
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.37
tblVehicleEF	LHD2	27.88	9.66
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.64	0.80
tblVehicleEF	LHD2	0.56	0.24
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.1610e-003	1.6340e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	9.5000e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.39
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0400e-004	9.6000e-005

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD2	1.1610e-003	1.6340e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.5000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.39
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.94	19.11
tblVehicleEF	MCY	9.66	8.52
tblVehicleEF	MCY	188.92	223.68
tblVehicleEF	MCY	44.52	59.56
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.06	1.08
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	0.65	0.66
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.98
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.2780e-003	2.2130e-003
tblVehicleEF	MCY	6.6300e-004	5.8900e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MCY	1.06	1.08
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	0.65	0.66
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.60	1.98
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.37
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.28
tblVehicleEF	MCY	44.52	57.67
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.73	1.72
tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.86
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.2000e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.72

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.86
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.25
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.96
tblVehicleEF	MCY	44.52	59.94
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.84
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	0.69	2.28
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2160e-003
tblVehicleEF	MCY	6.6700e-004	5.9300e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.84

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.28
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5350e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.10
tblVehicleEF	MDV	512.22	421.49
tblVehicleEF	MDV	103.14	83.59
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.34
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1410e-003
tblVehicleEF	MDV	1.0750e-003	8.2200e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9310e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.32
tblVehicleEF	MDV	2.12	2.63
tblVehicleEF	MDV	534.67	433.96
tblVehicleEF	MDV	103.14	82.70
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	5.3570e-003	4.2630e-003
tblVehicleEF	MDV	1.0680e-003	8.1300e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.05	0.04



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4070e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	416.89
tblVehicleEF	MDV	103.14	83.79
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	5.0480e-003	4.0950e-003
tblVehicleEF	MDV	1.0760e-003	8.2400e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.24	0.27
tblVehicleEF	MH	5.78	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	1.08	3.43
tblVehicleEF	MH	0.80	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	7.0500e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.12	0.08

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.30	0.27
tblVehicleEF	MH	5.44	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	0.99	3.24
tblVehicleEF	MH	0.76	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	1.41	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.58	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	6.9900e-004	0.00
tblVehicleEF	MH	1.41	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.58	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.22	0.27
tblVehicleEF	MH	5.83	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	1.06	3.37
tblVehicleEF	MH	0.80	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	1.08	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.08	0.00
tblVehicleEF	MH	0.08	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	4.4240e-003
tblVehicleEF	MHD	4.8560e-003	4.6020e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.39
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.14	1.44
tblVehicleEF	MHD	132.92	67.32
tblVehicleEF	MHD	1,150.98	1,070.87
tblVehicleEF	MHD	63.58	12.17
tblVehicleEF	MHD	0.49	0.47
tblVehicleEF	MHD	1.14	1.63
tblVehicleEF	MHD	9.96	1.29
tblVehicleEF	MHD	2.4800e-004	1.0730e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004
tblVehicleEF	MHD	2.3800e-004	1.0270e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.1350e-003	6.6800e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.3000e-004
tblVehicleEF	MHD	0.05	0.06

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	MHD	1.2810e-003	6.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4300e-004	1.2000e-004
tblVehicleEF	MHD	1.1350e-003	6.6800e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.3000e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.1930e-003
tblVehicleEF	MHD	4.9280e-003	4.6540e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	0.38	0.48
tblVehicleEF	MHD	5.83	1.36
tblVehicleEF	MHD	140.78	68.14
tblVehicleEF	MHD	1,150.98	1,070.88
tblVehicleEF	MHD	63.58	12.05
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.28
tblVehicleEF	MHD	2.0900e-004	9.0700e-004
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MHD	2.0000e-004	8.6800e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3800e-004	1.1900e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07
tblVehicleEF	MHD	0.02	4.7550e-003
tblVehicleEF	MHD	4.8360e-003	4.5850e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.52	0.49
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.20	1.45
tblVehicleEF	MHD	122.05	66.18

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MHD	1,150.98	1,070.87
tblVehicleEF	MHD	63.58	12.19
tblVehicleEF	MHD	0.47	0.47
tblVehicleEF	MHD	1.12	1.60
tblVehicleEF	MHD	9.97	1.29
tblVehicleEF	MHD	3.0200e-004	1.3020e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004
tblVehicleEF	MHD	2.8900e-004	1.2460e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.1690e-003	6.9100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.2100e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4400e-004	1.2100e-004
tblVehicleEF	MHD	1.1690e-003	6.9100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.2100e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.16



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	OBUS	0.01	8.4750e-003
tblVehicleEF	OBUS	7.7220e-003	6.9630e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.60
tblVehicleEF	OBUS	0.53	0.78
tblVehicleEF	OBUS	5.41	2.39
tblVehicleEF	OBUS	112.13	94.21
tblVehicleEF	OBUS	1,260.49	1,391.50
tblVehicleEF	OBUS	67.92	19.24
tblVehicleEF	OBUS	0.51	0.46
tblVehicleEF	OBUS	1.55	1.57
tblVehicleEF	OBUS	2.60	0.75
tblVehicleEF	OBUS	1.1400e-004	7.8900e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4100e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	8.9600e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7400e-004	1.9000e-004
tblVehicleEF	OBUS	1.4340e-003	1.8390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.4100e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5340e-003
tblVehicleEF	OBUS	7.8490e-003	7.0850e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.58
tblVehicleEF	OBUS	0.54	0.80
tblVehicleEF	OBUS	5.11	2.26
tblVehicleEF	OBUS	117.81	94.08
tblVehicleEF	OBUS	1,260.49	1,391.52
tblVehicleEF	OBUS	67.92	19.02
tblVehicleEF	OBUS	0.53	0.45
tblVehicleEF	OBUS	1.46	1.48
tblVehicleEF	OBUS	2.57	0.74
tblVehicleEF	OBUS	9.6000e-005	6.7100e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	9.2000e-005	6.4200e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	OBUS	2.1010e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3070e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	1.1360e-003	8.9500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8800e-004
tblVehicleEF	OBUS	2.1010e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0830e-003	1.3070e-003
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4130e-003
tblVehicleEF	OBUS	7.6880e-003	6.9290e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.61
tblVehicleEF	OBUS	0.53	0.78
tblVehicleEF	OBUS	5.47	2.42
tblVehicleEF	OBUS	104.30	94.40
tblVehicleEF	OBUS	1,260.49	1,391.49
tblVehicleEF	OBUS	67.92	19.29
tblVehicleEF	OBUS	0.49	0.47

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	OBUS	1.52	1.55
tblVehicleEF	OBUS	2.61	0.76
tblVehicleEF	OBUS	1.3900e-004	9.5300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.3300e-004	9.1200e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9220e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2400e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	1.0070e-003	8.9800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9220e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.4700e-004	9.2400e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0600e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	0.06	6.7770e-003
tblVehicleEF	SBUS	8.15	2.99
tblVehicleEF	SBUS	0.72	0.60
tblVehicleEF	SBUS	7.31	0.93
tblVehicleEF	SBUS	1,121.00	354.63
tblVehicleEF	SBUS	1,079.30	1,100.97
tblVehicleEF	SBUS	55.06	5.73
tblVehicleEF	SBUS	9.20	3.14
tblVehicleEF	SBUS	4.17	4.65
tblVehicleEF	SBUS	12.12	0.90
tblVehicleEF	SBUS	9.3410e-003	3.9540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	8.9370e-003	3.7830e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	3.3650e-003	9.8900e-004
tblVehicleEF	SBUS	0.03	8.5880e-003
tblVehicleEF	SBUS	0.97	0.34
tblVehicleEF	SBUS	1.7650e-003	5.2700e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3860e-003
tblVehicleEF	SBUS	0.01	0.01

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	6.7700e-004	5.7000e-005
tblVehicleEF	SBUS	3.3650e-003	9.8900e-004
tblVehicleEF	SBUS	0.03	8.5880e-003
tblVehicleEF	SBUS	1.40	0.49
tblVehicleEF	SBUS	1.7650e-003	5.2700e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.1400e-003
tblVehicleEF	SBUS	0.06	6.0470e-003
tblVehicleEF	SBUS	8.04	2.95
tblVehicleEF	SBUS	0.73	0.61
tblVehicleEF	SBUS	5.94	0.76
tblVehicleEF	SBUS	1,171.46	362.29
tblVehicleEF	SBUS	1,079.30	1,100.99
tblVehicleEF	SBUS	55.06	5.44
tblVehicleEF	SBUS	9.50	3.21
tblVehicleEF	SBUS	3.93	4.39
tblVehicleEF	SBUS	12.09	0.90
tblVehicleEF	SBUS	7.8750e-003	3.3400e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	7.5340e-003	3.1960e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	4.9570e-003	1.4290e-003
tblVehicleEF	SBUS	0.03	8.7250e-003
tblVehicleEF	SBUS	0.97	0.34
tblVehicleEF	SBUS	2.5080e-003	7.3100e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.03
tblVehicleEF	SBUS	0.01	3.4580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5400e-004	5.4000e-005
tblVehicleEF	SBUS	4.9570e-003	1.4290e-003
tblVehicleEF	SBUS	0.03	8.7250e-003
tblVehicleEF	SBUS	1.40	0.49
tblVehicleEF	SBUS	2.5080e-003	7.3100e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0350e-003
tblVehicleEF	SBUS	0.07	6.9450e-003
tblVehicleEF	SBUS	8.31	3.04
tblVehicleEF	SBUS	0.72	0.60
tblVehicleEF	SBUS	7.56	0.96
tblVehicleEF	SBUS	1,051.30	344.05
tblVehicleEF	SBUS	1,079.30	1,100.97
tblVehicleEF	SBUS	55.06	5.78

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	8.80	3.05
tblVehicleEF	SBUS	4.10	4.57
tblVehicleEF	SBUS	12.13	0.90
tblVehicleEF	SBUS	0.01	4.8000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	0.01	4.5930e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	3.4320e-003	1.0030e-003
tblVehicleEF	SBUS	0.03	9.0230e-003
tblVehicleEF	SBUS	0.98	0.34
tblVehicleEF	SBUS	1.6940e-003	5.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8100e-004	5.7000e-005
tblVehicleEF	SBUS	3.4320e-003	1.0030e-003
tblVehicleEF	SBUS	0.03	9.0230e-003
tblVehicleEF	SBUS	1.41	0.49
tblVehicleEF	SBUS	1.6940e-003	5.0600e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.07



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	0.43	0.04
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.22	45.42
tblVehicleEF	UBUS	8.87	0.71
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.61
tblVehicleEF	UBUS	9.98	0.47
tblVehicleEF	UBUS	15.36	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	4.1440e-003	6.6500e-004
tblVehicleEF	UBUS	0.07	8.4730e-003
tblVehicleEF	UBUS	2.3870e-003	4.9100e-004
tblVehicleEF	UBUS	0.85	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.4410e-003
tblVehicleEF	UBUS	1.1250e-003	8.5000e-005
tblVehicleEF	UBUS	4.1440e-003	6.6500e-004
tblVehicleEF	UBUS	0.07	8.4730e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	UBUS	2.3870e-003	4.9100e-004
tblVehicleEF	UBUS	3.56	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.74	0.05
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.42
tblVehicleEF	UBUS	7.69	0.63
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.46
tblVehicleEF	UBUS	9.41	0.47
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	5.9080e-003	9.6200e-004
tblVehicleEF	UBUS	0.07	8.7330e-003
tblVehicleEF	UBUS	3.2830e-003	6.7600e-004
tblVehicleEF	UBUS	0.86	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.4410e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	UBUS	1.1050e-003	8.4000e-005
tblVehicleEF	UBUS	5.9080e-003	9.6200e-004
tblVehicleEF	UBUS	0.07	8.7330e-003
tblVehicleEF	UBUS	3.2830e-003	6.7600e-004
tblVehicleEF	UBUS	3.57	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.21	45.42
tblVehicleEF	UBUS	9.08	0.73
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.64
tblVehicleEF	UBUS	9.79	0.47
tblVehicleEF	UBUS	15.38	0.09
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	4.7000e-003	6.4800e-004
tblVehicleEF	UBUS	0.08	9.0360e-003
tblVehicleEF	UBUS	2.5010e-003	4.6600e-004
tblVehicleEF	UBUS	0.85	0.09

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.4410e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	6.4800e-004
tblVehicleEF	UBUS	0.08	9.0360e-003
tblVehicleEF	UBUS	2.5010e-003	4.6600e-004
tblVehicleEF	UBUS	3.55	5.97
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	ST_TR	49.97	46.12
tblVehicleTrips	SU_TR	25.24	21.10
tblVehicleTrips	WD_TR	8.17	8.36
tblVehicleTrips	WD_TR	42.70	37.04

## 2.0 Emissions Summary

---

## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
2021	1.3784	16.7293	7.9556	0.0230	7.3990	0.6565	8.0555	3.5094	0.6044	4.1138	0.0000	2,359.972 2	2,359.972 2	0.4550	0.0000	2,371.239 8
2022	73.0318	9.0680	10.6617	0.0178	0.3946	0.4285	0.8027	0.1063	0.4053	0.4818	0.0000	1,747.623 4	1,747.623 4	0.4005	0.0000	1,757.635 8
Maximum	73.0318	16.7293	10.6617	0.0230	7.3990	0.6565	8.0555	3.5094	0.6044	4.1138	0.0000	2,359.972 2	2,359.972 2	0.4550	0.0000	2,371.239 8

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.3784	16.7293	7.9556	0.0230	3.0708	0.6565	3.7273	1.4191	0.6044	2.0235	0.0000	2,359.972 2	2,359.972 2	0.4550	0.0000	2,371.239 8
2022	73.0318	9.0680	10.6617	0.0178	0.3946	0.4285	0.8027	0.1063	0.4053	0.4818	0.0000	1,747.623 4	1,747.623 4	0.4005	0.0000	1,757.635 8
Maximum	73.0318	16.7293	10.6617	0.0230	3.0708	0.6565	3.7273	1.4191	0.6044	2.0235	0.0000	2,359.972 2	2,359.972 2	0.4550	0.0000	2,371.239 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	55.54	0.00	48.86	57.81	0.00	45.48	0.00	0.00	0.00	0.00	0.00	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Energy	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
Mobile	2.9681	5.4266	24.8898	0.0656	6.1689	0.0680	6.2369	1.6474	0.0638	1.7112		6,791.8615	6,791.8615	0.4888		6,804.0821
<b>Total</b>	<b>4.4302</b>	<b>6.1428</b>	<b>25.5126</b>	<b>0.0699</b>	<b>6.1689</b>	<b>0.1225</b>	<b>6.2914</b>	<b>1.6474</b>	<b>0.1183</b>	<b>1.7657</b>		<b>7,651.0545</b>	<b>7,651.0545</b>	<b>0.5054</b>	<b>0.0158</b>	<b>7,668.3837</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Energy	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
Mobile	2.9681	5.4266	24.8898	0.0656	6.1689	0.0680	6.2369	1.6474	0.0638	1.7112		6,791.8615	6,791.8615	0.4888		6,804.0821
<b>Total</b>	<b>4.4302</b>	<b>6.1428</b>	<b>25.5126</b>	<b>0.0699</b>	<b>6.1689</b>	<b>0.1225</b>	<b>6.2914</b>	<b>1.6474</b>	<b>0.1183</b>	<b>1.7657</b>		<b>7,651.0545</b>	<b>7,651.0545</b>	<b>0.5054</b>	<b>0.0158</b>	<b>7,668.3837</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-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
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	5/10/2021	5/21/2021	5	10	
2	Grading	Grading	5/22/2021	8/6/2021	5	55	
3	Building Construction	Building Construction	8/7/2021	8/9/2022	5	262	
4	Architectural Coating	Architectural Coating	8/19/2022	10/6/2022	5	4	
5	Paving	Paving	9/7/2022	9/15/2022	5	7	

**Acres of Grading (Site Preparation Phase): 10**

**Acres of Grading (Grading Phase): 55**

**Acres of Paving: 0.05**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 92,523; Non-Residential Outdoor: 30,841; Striped Parking Area: 470 (Architectural Coating – sqft)**

#### OffRoad Equipment

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	1	8.00	212	0.43
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	779.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	29.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**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/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.0039	12.8926	4.2023	0.0145		0.4499	0.4499		0.4139	0.4139		1,402.046 2	1,402.046 2	0.4535		1,413.382 4
<b>Total</b>	<b>1.0039</b>	<b>12.8926</b>	<b>4.2023</b>	<b>0.0145</b>	<b>1.0605</b>	<b>0.4499</b>	<b>1.5104</b>	<b>0.1145</b>	<b>0.4139</b>	<b>0.5284</b>		<b>1,402.046 2</b>	<b>1,402.046 2</b>	<b>0.4535</b>		<b>1,413.382 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.0238</b>	<b>0.0163</b>	<b>0.1841</b>	<b>5.4000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>53.6126</b>	<b>53.6126</b>	<b>1.5800e-003</b>		<b>53.6520</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.2 Site Preparation - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	1.0039	12.8926	4.2023	0.0145		0.4499	0.4499		0.4139	0.4139	0.0000	1,402.046 2	1,402.046 2	0.4535		1,413.382 4
<b>Total</b>	<b>1.0039</b>	<b>12.8926</b>	<b>4.2023</b>	<b>0.0145</b>	<b>0.4136</b>	<b>0.4499</b>	<b>0.8635</b>	<b>0.0447</b>	<b>0.4139</b>	<b>0.4585</b>	<b>0.0000</b>	<b>1,402.046 2</b>	<b>1,402.046 2</b>	<b>0.4535</b>		<b>1,413.382 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.0238</b>	<b>0.0163</b>	<b>0.1841</b>	<b>5.4000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>53.6126</b>	<b>53.6126</b>	<b>1.5800e-003</b>		<b>53.6520</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**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/day										lb/day					
Fugitive Dust					7.0954	0.0000	7.0954	3.4267	0.0000	3.4267			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
<b>Total</b>	<b>1.2336</b>	<b>12.8671</b>	<b>6.2980</b>	<b>0.0116</b>	<b>7.0954</b>	<b>0.6442</b>	<b>7.7396</b>	<b>3.4267</b>	<b>0.5927</b>	<b>4.0194</b>		<b>1,128.2523</b>	<b>1,128.2523</b>	<b>0.3649</b>		<b>1,137.3748</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1209	3.8458	0.9446	0.0109	0.2477	0.0118	0.2595	0.0679	0.0113	0.0792		1,178.1073	1,178.1073	0.0842		1,180.2130
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	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.1448</b>	<b>3.8622</b>	<b>1.1288</b>	<b>0.0114</b>	<b>0.3036</b>	<b>0.0123</b>	<b>0.3158</b>	<b>0.0827</b>	<b>0.0118</b>	<b>0.0945</b>		<b>1,231.7199</b>	<b>1,231.7199</b>	<b>0.0858</b>		<b>1,233.8650</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.3 Grading - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7672	0.0000	2.7672	1.3364	0.0000	1.3364			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748
<b>Total</b>	<b>1.2336</b>	<b>12.8671</b>	<b>6.2980</b>	<b>0.0116</b>	<b>2.7672</b>	<b>0.6442</b>	<b>3.4114</b>	<b>1.3364</b>	<b>0.5927</b>	<b>1.9291</b>	<b>0.0000</b>	<b>1,128.2523</b>	<b>1,128.2523</b>	<b>0.3649</b>		<b>1,137.3748</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1209	3.8458	0.9446	0.0109	0.2477	0.0118	0.2595	0.0679	0.0113	0.0792		1,178.1073	1,178.1073	0.0842		1,180.2130
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	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.1448</b>	<b>3.8622</b>	<b>1.1288</b>	<b>0.0114</b>	<b>0.3036</b>	<b>0.0123</b>	<b>0.3158</b>	<b>0.0827</b>	<b>0.0118</b>	<b>0.0945</b>		<b>1,231.7199</b>	<b>1,231.7199</b>	<b>0.0858</b>		<b>1,233.8650</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.4 Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.1034	6.5788	0.0119		0.4761	0.4761		0.4380	0.4380		1,155.7005	1,155.7005	0.3738		1,165.0449
<b>Total</b>	<b>0.8588</b>	<b>9.1034</b>	<b>6.5788</b>	<b>0.0119</b>		<b>0.4761</b>	<b>0.4761</b>		<b>0.4380</b>	<b>0.4380</b>		<b>1,155.7005</b>	<b>1,155.7005</b>	<b>0.3738</b>		<b>1,165.0449</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0351	1.0658	0.3089	2.7500e-003	0.0704	2.2500e-003	0.0727	0.0203	2.1600e-003	0.0224		294.0801	294.0801	0.0190		294.5547
Worker	0.1383	0.0946	1.0679	3.1200e-003	0.3242	2.6200e-003	0.3268	0.0860	2.4100e-003	0.0884		310.9528	310.9528	9.1500e-003		311.1816
<b>Total</b>	<b>0.1734</b>	<b>1.1604</b>	<b>1.3768</b>	<b>5.8700e-003</b>	<b>0.3946</b>	<b>4.8700e-003</b>	<b>0.3995</b>	<b>0.1063</b>	<b>4.5700e-003</b>	<b>0.1108</b>		<b>605.0329</b>	<b>605.0329</b>	<b>0.0281</b>		<b>605.7363</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.4 Building Construction - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.1034	6.5788	0.0119		0.4761	0.4761		0.4380	0.4380	0.0000	1,155.7005	1,155.7005	0.3738		1,165.0449
<b>Total</b>	<b>0.8588</b>	<b>9.1034</b>	<b>6.5788</b>	<b>0.0119</b>		<b>0.4761</b>	<b>0.4761</b>		<b>0.4380</b>	<b>0.4380</b>	<b>0.0000</b>	<b>1,155.7005</b>	<b>1,155.7005</b>	<b>0.3738</b>		<b>1,165.0449</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0351	1.0658	0.3089	2.7500e-003	0.0704	2.2500e-003	0.0727	0.0203	2.1600e-003	0.0224		294.0801	294.0801	0.0190		294.5547
Worker	0.1383	0.0946	1.0679	3.1200e-003	0.3242	2.6200e-003	0.3268	0.0860	2.4100e-003	0.0884		310.9528	310.9528	9.1500e-003		311.1816
<b>Total</b>	<b>0.1734</b>	<b>1.1604</b>	<b>1.3768</b>	<b>5.8700e-003</b>	<b>0.3946</b>	<b>4.8700e-003</b>	<b>0.3995</b>	<b>0.1063</b>	<b>4.5700e-003</b>	<b>0.1108</b>		<b>605.0329</b>	<b>605.0329</b>	<b>0.0281</b>		<b>605.7363</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**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/day										lb/day					
Off-Road	0.7649	7.9697	6.4378	0.0119		0.4036	0.4036		0.3713	0.3713		1,156.1310	1,156.1310	0.3739		1,165.4789
<b>Total</b>	<b>0.7649</b>	<b>7.9697</b>	<b>6.4378</b>	<b>0.0119</b>		<b>0.4036</b>	<b>0.4036</b>		<b>0.3713</b>	<b>0.3713</b>		<b>1,156.1310</b>	<b>1,156.1310</b>	<b>0.3739</b>		<b>1,165.4789</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0330	1.0129	0.2924	2.7300e-003	0.0704	1.9700e-003	0.0724	0.0203	1.8900e-003	0.0222		291.4673	291.4673	0.0183		291.9253
Worker	0.1299	0.0854	0.9836	3.0100e-003	0.3242	2.5400e-003	0.3267	0.0860	2.3400e-003	0.0883		300.0251	300.0251	8.2600e-003		300.2317
<b>Total</b>	<b>0.1628</b>	<b>1.0983</b>	<b>1.2760</b>	<b>5.7400e-003</b>	<b>0.3946</b>	<b>4.5100e-003</b>	<b>0.3991</b>	<b>0.1063</b>	<b>4.2300e-003</b>	<b>0.1105</b>		<b>591.4925</b>	<b>591.4925</b>	<b>0.0266</b>		<b>592.1569</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.4 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7649	7.9697	6.4378	0.0119		0.4036	0.4036		0.3713	0.3713	0.0000	1,156.1310	1,156.1310	0.3739		1,165.4789
<b>Total</b>	<b>0.7649</b>	<b>7.9697</b>	<b>6.4378</b>	<b>0.0119</b>		<b>0.4036</b>	<b>0.4036</b>		<b>0.3713</b>	<b>0.3713</b>	<b>0.0000</b>	<b>1,156.1310</b>	<b>1,156.1310</b>	<b>0.3739</b>		<b>1,165.4789</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0330	1.0129	0.2924	2.7300e-003	0.0704	1.9700e-003	0.0724	0.0203	1.8900e-003	0.0222		291.4673	291.4673	0.0183		291.9253
Worker	0.1299	0.0854	0.9836	3.0100e-003	0.3242	2.5400e-003	0.3267	0.0860	2.3400e-003	0.0883		300.0251	300.0251	8.2600e-003		300.2317
<b>Total</b>	<b>0.1628</b>	<b>1.0983</b>	<b>1.2760</b>	<b>5.7400e-003</b>	<b>0.3946</b>	<b>4.5100e-003</b>	<b>0.3991</b>	<b>0.1063</b>	<b>4.2300e-003</b>	<b>0.1105</b>		<b>591.4925</b>	<b>591.4925</b>	<b>0.0266</b>		<b>592.1569</b>



1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.5 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/day										lb/day					
Archit. Coating	72.0186					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
<b>Total</b>	<b>72.2914</b>	<b>1.8780</b>	<b>2.4181</b>	<b>3.9600e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0244</b>		<b>375.8749</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0269	0.0177	0.2035	6.2000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		62.0742	62.0742	1.7100e-003		62.1169
<b>Total</b>	<b>0.0269</b>	<b>0.0177</b>	<b>0.2035</b>	<b>6.2000e-004</b>	<b>0.0671</b>	<b>5.2000e-004</b>	<b>0.0676</b>	<b>0.0178</b>	<b>4.8000e-004</b>	<b>0.0183</b>		<b>62.0742</b>	<b>62.0742</b>	<b>1.7100e-003</b>		<b>62.1169</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.5 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.0186					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
<b>Total</b>	<b>72.2914</b>	<b>1.8780</b>	<b>2.4181</b>	<b>3.9600e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0244</b>		<b>375.8749</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0269	0.0177	0.2035	6.2000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		62.0742	62.0742	1.7100e-003		62.1169
<b>Total</b>	<b>0.0269</b>	<b>0.0177</b>	<b>0.2035</b>	<b>6.2000e-004</b>	<b>0.0671</b>	<b>5.2000e-004</b>	<b>0.0676</b>	<b>0.0178</b>	<b>4.8000e-004</b>	<b>0.0183</b>		<b>62.0742</b>	<b>62.0742</b>	<b>1.7100e-003</b>		<b>62.1169</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6554	6.2368	7.5991	0.0119		0.3179	0.3179		0.2948	0.2948		1,111.6333	1,111.6333	0.3373		1,120.0668
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6554</b>	<b>6.2368</b>	<b>7.5991</b>	<b>0.0119</b>		<b>0.3179</b>	<b>0.3179</b>		<b>0.2948</b>	<b>0.2948</b>		<b>1,111.6333</b>	<b>1,111.6333</b>	<b>0.3373</b>		<b>1,120.0668</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0582	0.0383	0.4409	1.3500e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.4940	134.4940	3.7000e-003		134.5866
<b>Total</b>	<b>0.0582</b>	<b>0.0383</b>	<b>0.4409</b>	<b>1.3500e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>		<b>134.4940</b>	<b>134.4940</b>	<b>3.7000e-003</b>		<b>134.5866</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6554	6.2368	7.5991	0.0119		0.3179	0.3179		0.2948	0.2948	0.0000	1,111.6333	1,111.6333	0.3373		1,120.0668
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6554</b>	<b>6.2368</b>	<b>7.5991</b>	<b>0.0119</b>		<b>0.3179</b>	<b>0.3179</b>		<b>0.2948</b>	<b>0.2948</b>	<b>0.0000</b>	<b>1,111.6333</b>	<b>1,111.6333</b>	<b>0.3373</b>		<b>1,120.0668</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0582	0.0383	0.4409	1.3500e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.4940	134.4940	3.7000e-003		134.5866
<b>Total</b>	<b>0.0582</b>	<b>0.0383</b>	<b>0.4409</b>	<b>1.3500e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>		<b>134.4940</b>	<b>134.4940</b>	<b>3.7000e-003</b>		<b>134.5866</b>

**4.0 Operational Detail - Mobile**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9681	5.4266	24.8898	0.0656	6.1689	0.0680	6.2369	1.6474	0.0638	1.7112		6,791.8615	6,791.8615	0.4888		6,804.0821
Unmitigated	2.9681	5.4266	24.8898	0.0656	6.1689	0.0680	6.2369	1.6474	0.0638	1.7112		6,791.8615	6,791.8615	0.4888		6,804.0821

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,204.00	1,179.36	856.80	2,746,194	2,746,194
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	14.07	17.53	8.02	29,635	29,635
Total	1,218.07	1,196.89	864.82	2,775,829	2,775,829

**4.3 Trip Type Information**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Hotel	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Regional Shopping Center	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
NaturalGas Mitigated	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
NaturalGas Unmitigated	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529

## 5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7301.05	0.0787	0.7158	0.6013	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.9476	858.9476	0.0165	0.0158	864.0519
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.69841	2.0000e-005	1.7000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.1998	0.1998	0.0000	0.0000	0.2010
<b>Total</b>		<b>0.0788</b>	<b>0.7160</b>	<b>0.6014</b>	<b>4.2900e-003</b>		<b>0.0544</b>	<b>0.0544</b>		<b>0.0544</b>	<b>0.0544</b>		<b>859.1474</b>	<b>859.1474</b>	<b>0.0165</b>	<b>0.0158</b>	<b>864.2529</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.30105	0.0787	0.7158	0.6013	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.9476	858.9476	0.0165	0.0158	864.0519
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.00169841	2.0000e-005	1.7000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.1998	0.1998	0.0000	0.0000	0.2010
<b>Total</b>		<b>0.0788</b>	<b>0.7160</b>	<b>0.6014</b>	<b>4.2900e-003</b>		<b>0.0544</b>	<b>0.0544</b>		<b>0.0544</b>	<b>0.0544</b>		<b>859.1474</b>	<b>859.1474</b>	<b>0.0165</b>	<b>0.0158</b>	<b>864.2529</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**



## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
Mitigated	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Unmitigated	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
<b>Total</b>	<b>1.3833</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0457</b>	<b>0.0457</b>	<b>1.2000e-004</b>		<b>0.0487</b>

1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
Architectural Coating	0.1573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
<b>Total</b>	<b>1.3833</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0457</b>	<b>0.0457</b>	<b>1.2000e-004</b>		<b>0.0487</b>

**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****Fire Pumps and Emergency Generators**

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## **APPENDIX 3.2:**

### **CALEEMOD OPERATIONAL EMISSIONS MODEL OUTPUTS**

*This page intentionally left blank*

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**1130 South Hope Street (Unmitigated)**  
**Los Angeles-South Coast County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	62.00	Space	0.00	5,479.00	0
Other Non-Asphalt Surfaces	2.35	1000sqft	0.05	2,350.00	0
Hotel	144.00	Room	0.13	61,304.00	0
Regional Shopping Center	0.38	1000sqft	0.00	378.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

### 1.3 User Entered Comments & Non-Default Data

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

## Project Characteristics -

Land Use - Total Project site is 0.18 acres.

Construction Phase - Construction Schedule based on consultation with the Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Grading - For purposes of analysis, it is assumed that 1 acre will be disturbed per day

Architectural Coating - Rule 1113

Vehicle Trips - Trip characteristics based on information provided in the 1130 South Hope Street Traffic Impact Study prepared by KOA

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential 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	1.00	10.00
tblConstructionPhase	NumDays	2.00	55.00
tblConstructionPhase	NumDays	100.00	262.00
tblConstructionPhase	NumDays	5.00	4.00
tblConstructionPhase	NumDays	5.00	7.00
tblEnergyUse	LightingElect	1.75	1.23
tblEnergyUse	LightingElect	5.44	3.81

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblEnergyUse	LightingElect	5.61	3.93
tblEnergyUse	T24E	3.92	2.74
tblEnergyUse	T24E	6.47	4.53
tblEnergyUse	T24E	4.58	3.21
tblEnergyUse	T24NG	55.15	38.61
tblEnergyUse	T24NG	1.92	1.34
tblGrading	AcresOfGrading	0.00	55.00
tblGrading	MaterialExported	0.00	6,233.00
tblLandUse	LandUseSquareFeet	24,800.00	5,479.00
tblLandUse	LandUseSquareFeet	209,088.00	61,304.00
tblLandUse	LandUseSquareFeet	380.00	378.00
tblLandUse	LotAcreage	0.56	0.00
tblLandUse	LotAcreage	4.80	0.13
tblLandUse	LotAcreage	0.01	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblOffRoadEquipment	UsageHours	7.00	8.00
tblVehicleEF	HHD	0.62	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	2.47	6.23
tblVehicleEF	HHD	1.15	0.58
tblVehicleEF	HHD	3.30	9.5390e-003
tblVehicleEF	HHD	4,690.45	1,172.50
tblVehicleEF	HHD	1,639.83	1,482.70
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	20.39	6.32
tblVehicleEF	HHD	3.81	3.60
tblVehicleEF	HHD	19.54	2.06
tblVehicleEF	HHD	0.01	3.9370e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.7670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.7700e-004
tblVehicleEF	HHD	0.62	0.45
tblVehicleEF	HHD	7.9000e-005	5.0000e-006

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.9500e-004	1.5080e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.7700e-004
tblVehicleEF	HHD	0.72	0.52
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.9500e-004	1.5080e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.80	6.09
tblVehicleEF	HHD	1.16	0.59
tblVehicleEF	HHD	3.13	9.0610e-003
tblVehicleEF	HHD	4,968.94	1,168.97
tblVehicleEF	HHD	1,639.83	1,482.70
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	21.04	6.13
tblVehicleEF	HHD	3.60	3.41
tblVehicleEF	HHD	19.53	2.06
tblVehicleEF	HHD	0.01	3.4420e-003
tblVehicleEF	HHD	0.06	0.06

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.2930e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.8200e-004
tblVehicleEF	HHD	0.58	0.47
tblVehicleEF	HHD	1.1400e-004	8.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.8400e-004	1.4870e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.5700e-004	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.8200e-004
tblVehicleEF	HHD	0.68	0.55
tblVehicleEF	HHD	1.1400e-004	8.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.8400e-004	1.4870e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.67	0.02
tblVehicleEF	HHD	0.09	3.6360e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	3.41	6.32
tblVehicleEF	HHD	1.15	0.38
tblVehicleEF	HHD	3.33	9.6340e-003
tblVehicleEF	HHD	4,305.87	1,158.96
tblVehicleEF	HHD	1,639.83	1,430.09
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	19.48	6.47
tblVehicleEF	HHD	3.75	3.49
tblVehicleEF	HHD	19.55	2.06
tblVehicleEF	HHD	0.02	4.3710e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.02	4.1820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.7580e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	8.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.1500e-004
tblVehicleEF	HHD	0.66	0.42
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.2900e-004	1.6010e-003
tblVehicleEF	HHD	0.08	3.0000e-006

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	8.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.1500e-004
tblVehicleEF	HHD	0.78	0.48
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.09
tblVehicleEF	HHD	4.2900e-004	1.6010e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	LDA	5.3420e-003	3.0240e-003
tblVehicleEF	LDA	5.4040e-003	0.05
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	1.15	2.10
tblVehicleEF	LDA	274.33	272.47
tblVehicleEF	LDA	57.08	53.62
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	2.7480e-003	2.6780e-003
tblVehicleEF	LDA	5.9000e-004	5.2700e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	5.6740e-003	3.2280e-003
tblVehicleEF	LDA	4.8010e-003	0.04
tblVehicleEF	LDA	0.72	0.79
tblVehicleEF	LDA	0.98	1.79
tblVehicleEF	LDA	287.10	284.40
tblVehicleEF	LDA	57.08	53.05
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDA	2.8760e-003	2.7950e-003
tblVehicleEF	LDA	5.8700e-004	5.2200e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.2330e-003	2.9600e-003
tblVehicleEF	LDA	5.5300e-003	0.05
tblVehicleEF	LDA	0.63	0.69
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	269.66	268.07
tblVehicleEF	LDA	57.08	53.75
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.7010e-003	2.6350e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDA	5.9100e-004	5.2800e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.02	7.7270e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.68	1.45
tblVehicleEF	LDT1	2.78	2.27
tblVehicleEF	LDT1	341.15	320.55
tblVehicleEF	LDT1	69.44	63.67
tblVehicleEF	LDT1	0.16	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.4330e-003	3.1520e-003
tblVehicleEF	LDT1	7.4300e-004	6.2600e-004



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.02	8.1770e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.82	1.58
tblVehicleEF	LDT1	2.36	1.93
tblVehicleEF	LDT1	356.02	332.71
tblVehicleEF	LDT1	69.44	63.00
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.17	0.31
tblVehicleEF	LDT1	3.5840e-003	3.2710e-003
tblVehicleEF	LDT1	7.3600e-004	6.1900e-004
tblVehicleEF	LDT1	0.20	0.20

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.18	0.34
tblVehicleEF	LDT1	0.02	7.5820e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.63	1.41
tblVehicleEF	LDT1	2.87	2.35
tblVehicleEF	LDT1	335.69	316.06
tblVehicleEF	LDT1	69.44	63.82
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.22
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.82
tblVehicleEF	LDT1	0.20	0.36
tblVehicleEF	LDT1	3.3780e-003	3.1070e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.22

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.82
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9730e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	343.42
tblVehicleEF	LDT2	78.07	68.73
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3760e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.2910e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	355.31
tblVehicleEF	LDT2	78.07	67.99
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	3.9980e-003	3.4930e-003
tblVehicleEF	LDT2	8.0000e-004	6.6800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8730e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
tblVehicleEF	LDT2	1.39	2.74
tblVehicleEF	LDT2	375.62	339.02
tblVehicleEF	LDT2	78.07	68.90
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	3.7630e-003	3.3320e-003
tblVehicleEF	LDT2	8.0400e-004	6.7700e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.6110e-003
tblVehicleEF	LHD1	0.01	5.6770e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.04
tblVehicleEF	LHD1	33.34	12.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.63
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.1460e-003	2.5540e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5610e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.55

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5150e-003
tblVehicleEF	LHD1	3.8500e-004	1.2400e-004
tblVehicleEF	LHD1	3.1460e-003	2.5540e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5610e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.6230e-003
tblVehicleEF	LHD1	0.01	5.7930e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.66
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.06
tblVehicleEF	LHD1	33.34	12.39
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.89	0.59
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.7600e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.1600e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5150e-003
tblVehicleEF	LHD1	3.8300e-004	1.2300e-004
tblVehicleEF	LHD1	4.7100e-003	3.7600e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.1600e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.5970e-003	5.6090e-003
tblVehicleEF	LHD1	0.01	5.6460e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.64
tblVehicleEF	LHD1	2.81	1.15



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.03
tblVehicleEF	LHD1	33.34	12.50
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.94	0.62
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.6900e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5400e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5150e-003
tblVehicleEF	LHD1	3.8600e-004	1.2400e-004
tblVehicleEF	LHD1	3.3080e-003	2.6900e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD1	1.8850e-003	1.5400e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9440e-003
tblVehicleEF	LHD2	4.2980e-003	3.9460e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.77
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.37
tblVehicleEF	LHD2	27.88	9.65
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.65	0.81
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.1380e-003	1.5770e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD2	7.4500e-004	9.7800e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5770e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7800e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9530e-003
tblVehicleEF	LHD2	4.3570e-003	3.9910e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.74
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.38
tblVehicleEF	LHD2	27.88	9.59
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.61	0.76
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.6960e-003	2.3210e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3550e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0300e-004	9.5000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3210e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3550e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9420e-003
tblVehicleEF	LHD2	4.2820e-003	3.9330e-003
tblVehicleEF	LHD2	8.5780e-003	0.01

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.43
tblVehicleEF	LHD2	1.38	0.78
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.37
tblVehicleEF	LHD2	27.88	9.66
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.64	0.80
tblVehicleEF	LHD2	0.56	0.24
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.1610e-003	1.6340e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	9.5000e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.39
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0400e-004	9.6000e-005

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	LHD2	1.1610e-003	1.6340e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.5000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.39
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.94	19.11
tblVehicleEF	MCY	9.66	8.52
tblVehicleEF	MCY	188.92	223.68
tblVehicleEF	MCY	44.52	59.56
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.06	1.08
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	0.65	0.66
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.98
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.2780e-003	2.2130e-003
tblVehicleEF	MCY	6.6300e-004	5.8900e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MCY	1.06	1.08
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	0.65	0.66
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.60	1.98
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.37
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.28
tblVehicleEF	MCY	44.52	57.67
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.73	1.72
tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.86
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.2000e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.72

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.86
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.25
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.96
tblVehicleEF	MCY	44.52	59.94
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.84
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	0.69	2.28
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2160e-003
tblVehicleEF	MCY	6.6700e-004	5.9300e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.84



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.28
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5350e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.10
tblVehicleEF	MDV	512.22	421.49
tblVehicleEF	MDV	103.14	83.59
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.34
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1410e-003
tblVehicleEF	MDV	1.0750e-003	8.2200e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9310e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.32
tblVehicleEF	MDV	2.12	2.63
tblVehicleEF	MDV	534.67	433.96
tblVehicleEF	MDV	103.14	82.70
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	5.3570e-003	4.2630e-003
tblVehicleEF	MDV	1.0680e-003	8.1300e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.05	0.04

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4070e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	416.89
tblVehicleEF	MDV	103.14	83.79
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	5.0480e-003	4.0950e-003
tblVehicleEF	MDV	1.0760e-003	8.2400e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.24	0.27
tblVehicleEF	MH	5.78	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	1.08	3.43
tblVehicleEF	MH	0.80	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	7.0500e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.12	0.08

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.30	0.27
tblVehicleEF	MH	5.44	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	0.99	3.24
tblVehicleEF	MH	0.76	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	1.41	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.58	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	6.9900e-004	0.00
tblVehicleEF	MH	1.41	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.58	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.22	0.27
tblVehicleEF	MH	5.83	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	1.06	3.37
tblVehicleEF	MH	0.80	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	1.08	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.08	0.00
tblVehicleEF	MH	0.08	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	4.4240e-003
tblVehicleEF	MHD	4.8560e-003	4.6020e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.39
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.14	1.44
tblVehicleEF	MHD	132.92	67.32
tblVehicleEF	MHD	1,150.98	1,070.87
tblVehicleEF	MHD	63.58	12.17
tblVehicleEF	MHD	0.49	0.47
tblVehicleEF	MHD	1.14	1.63
tblVehicleEF	MHD	9.96	1.29
tblVehicleEF	MHD	2.4800e-004	1.0730e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004
tblVehicleEF	MHD	2.3800e-004	1.0270e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.1350e-003	6.6800e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.3000e-004
tblVehicleEF	MHD	0.05	0.06

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	MHD	1.2810e-003	6.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4300e-004	1.2000e-004
tblVehicleEF	MHD	1.1350e-003	6.6800e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.3000e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.1930e-003
tblVehicleEF	MHD	4.9280e-003	4.6540e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	0.38	0.48
tblVehicleEF	MHD	5.83	1.36
tblVehicleEF	MHD	140.78	68.14
tblVehicleEF	MHD	1,150.98	1,070.88
tblVehicleEF	MHD	63.58	12.05
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.28
tblVehicleEF	MHD	2.0900e-004	9.0700e-004
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MHD	2.0000e-004	8.6800e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3800e-004	1.1900e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07
tblVehicleEF	MHD	0.02	4.7550e-003
tblVehicleEF	MHD	4.8360e-003	4.5850e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.52	0.49
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.20	1.45
tblVehicleEF	MHD	122.05	66.18

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MHD	1,150.98	1,070.87
tblVehicleEF	MHD	63.58	12.19
tblVehicleEF	MHD	0.47	0.47
tblVehicleEF	MHD	1.12	1.60
tblVehicleEF	MHD	9.97	1.29
tblVehicleEF	MHD	3.0200e-004	1.3020e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004
tblVehicleEF	MHD	2.8900e-004	1.2460e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.1690e-003	6.9100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.2100e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4400e-004	1.2100e-004
tblVehicleEF	MHD	1.1690e-003	6.9100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.2100e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.16

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	OBUS	0.01	8.4750e-003
tblVehicleEF	OBUS	7.7220e-003	6.9630e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.60
tblVehicleEF	OBUS	0.53	0.78
tblVehicleEF	OBUS	5.41	2.39
tblVehicleEF	OBUS	112.13	94.21
tblVehicleEF	OBUS	1,260.49	1,391.50
tblVehicleEF	OBUS	67.92	19.24
tblVehicleEF	OBUS	0.51	0.46
tblVehicleEF	OBUS	1.55	1.57
tblVehicleEF	OBUS	2.60	0.75
tblVehicleEF	OBUS	1.1400e-004	7.8900e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4100e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	8.9600e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7400e-004	1.9000e-004
tblVehicleEF	OBUS	1.4340e-003	1.8390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.4100e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5340e-003
tblVehicleEF	OBUS	7.8490e-003	7.0850e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.58
tblVehicleEF	OBUS	0.54	0.80
tblVehicleEF	OBUS	5.11	2.26
tblVehicleEF	OBUS	117.81	94.08
tblVehicleEF	OBUS	1,260.49	1,391.52
tblVehicleEF	OBUS	67.92	19.02
tblVehicleEF	OBUS	0.53	0.45
tblVehicleEF	OBUS	1.46	1.48
tblVehicleEF	OBUS	2.57	0.74
tblVehicleEF	OBUS	9.6000e-005	6.7100e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	9.2000e-005	6.4200e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	OBUS	2.1010e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3070e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	1.1360e-003	8.9500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8800e-004
tblVehicleEF	OBUS	2.1010e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0830e-003	1.3070e-003
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4130e-003
tblVehicleEF	OBUS	7.6880e-003	6.9290e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.61
tblVehicleEF	OBUS	0.53	0.78
tblVehicleEF	OBUS	5.47	2.42
tblVehicleEF	OBUS	104.30	94.40
tblVehicleEF	OBUS	1,260.49	1,391.49
tblVehicleEF	OBUS	67.92	19.29
tblVehicleEF	OBUS	0.49	0.47

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	OBUS	1.52	1.55
tblVehicleEF	OBUS	2.61	0.76
tblVehicleEF	OBUS	1.3900e-004	9.5300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.3300e-004	9.1200e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9220e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2400e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	1.0070e-003	8.9800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9220e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.4700e-004	9.2400e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0600e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	0.06	6.7770e-003
tblVehicleEF	SBUS	8.15	2.99
tblVehicleEF	SBUS	0.72	0.60
tblVehicleEF	SBUS	7.31	0.93
tblVehicleEF	SBUS	1,121.00	354.63
tblVehicleEF	SBUS	1,079.30	1,100.97
tblVehicleEF	SBUS	55.06	5.73
tblVehicleEF	SBUS	9.20	3.14
tblVehicleEF	SBUS	4.17	4.65
tblVehicleEF	SBUS	12.12	0.90
tblVehicleEF	SBUS	9.3410e-003	3.9540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	8.9370e-003	3.7830e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	3.3650e-003	9.8900e-004
tblVehicleEF	SBUS	0.03	8.5880e-003
tblVehicleEF	SBUS	0.97	0.34
tblVehicleEF	SBUS	1.7650e-003	5.2700e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3860e-003
tblVehicleEF	SBUS	0.01	0.01

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	6.7700e-004	5.7000e-005
tblVehicleEF	SBUS	3.3650e-003	9.8900e-004
tblVehicleEF	SBUS	0.03	8.5880e-003
tblVehicleEF	SBUS	1.40	0.49
tblVehicleEF	SBUS	1.7650e-003	5.2700e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.1400e-003
tblVehicleEF	SBUS	0.06	6.0470e-003
tblVehicleEF	SBUS	8.04	2.95
tblVehicleEF	SBUS	0.73	0.61
tblVehicleEF	SBUS	5.94	0.76
tblVehicleEF	SBUS	1,171.46	362.29
tblVehicleEF	SBUS	1,079.30	1,100.99
tblVehicleEF	SBUS	55.06	5.44
tblVehicleEF	SBUS	9.50	3.21
tblVehicleEF	SBUS	3.93	4.39
tblVehicleEF	SBUS	12.09	0.90
tblVehicleEF	SBUS	7.8750e-003	3.3400e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	7.5340e-003	3.1960e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	4.9570e-003	1.4290e-003
tblVehicleEF	SBUS	0.03	8.7250e-003
tblVehicleEF	SBUS	0.97	0.34
tblVehicleEF	SBUS	2.5080e-003	7.3100e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.03
tblVehicleEF	SBUS	0.01	3.4580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5400e-004	5.4000e-005
tblVehicleEF	SBUS	4.9570e-003	1.4290e-003
tblVehicleEF	SBUS	0.03	8.7250e-003
tblVehicleEF	SBUS	1.40	0.49
tblVehicleEF	SBUS	2.5080e-003	7.3100e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0350e-003
tblVehicleEF	SBUS	0.07	6.9450e-003
tblVehicleEF	SBUS	8.31	3.04
tblVehicleEF	SBUS	0.72	0.60
tblVehicleEF	SBUS	7.56	0.96
tblVehicleEF	SBUS	1,051.30	344.05
tblVehicleEF	SBUS	1,079.30	1,100.97
tblVehicleEF	SBUS	55.06	5.78

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	8.80	3.05
tblVehicleEF	SBUS	4.10	4.57
tblVehicleEF	SBUS	12.13	0.90
tblVehicleEF	SBUS	0.01	4.8000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	0.01	4.5930e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	3.4320e-003	1.0030e-003
tblVehicleEF	SBUS	0.03	9.0230e-003
tblVehicleEF	SBUS	0.98	0.34
tblVehicleEF	SBUS	1.6940e-003	5.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8100e-004	5.7000e-005
tblVehicleEF	SBUS	3.4320e-003	1.0030e-003
tblVehicleEF	SBUS	0.03	9.0230e-003
tblVehicleEF	SBUS	1.41	0.49
tblVehicleEF	SBUS	1.6940e-003	5.0600e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.07

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	SBUS	0.43	0.04
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.22	45.42
tblVehicleEF	UBUS	8.87	0.71
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.61
tblVehicleEF	UBUS	9.98	0.47
tblVehicleEF	UBUS	15.36	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	4.1440e-003	6.6500e-004
tblVehicleEF	UBUS	0.07	8.4730e-003
tblVehicleEF	UBUS	2.3870e-003	4.9100e-004
tblVehicleEF	UBUS	0.85	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.4410e-003
tblVehicleEF	UBUS	1.1250e-003	8.5000e-005
tblVehicleEF	UBUS	4.1440e-003	6.6500e-004
tblVehicleEF	UBUS	0.07	8.4730e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	UBUS	2.3870e-003	4.9100e-004
tblVehicleEF	UBUS	3.56	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.74	0.05
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.42
tblVehicleEF	UBUS	7.69	0.63
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.46
tblVehicleEF	UBUS	9.41	0.47
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	5.9080e-003	9.6200e-004
tblVehicleEF	UBUS	0.07	8.7330e-003
tblVehicleEF	UBUS	3.2830e-003	6.7600e-004
tblVehicleEF	UBUS	0.86	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.4410e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	UBUS	1.1050e-003	8.4000e-005
tblVehicleEF	UBUS	5.9080e-003	9.6200e-004
tblVehicleEF	UBUS	0.07	8.7330e-003
tblVehicleEF	UBUS	3.2830e-003	6.7600e-004
tblVehicleEF	UBUS	3.57	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.21	45.42
tblVehicleEF	UBUS	9.08	0.73
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.64
tblVehicleEF	UBUS	9.79	0.47
tblVehicleEF	UBUS	15.38	0.09
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	4.7000e-003	6.4800e-004
tblVehicleEF	UBUS	0.08	9.0360e-003
tblVehicleEF	UBUS	2.5010e-003	4.6600e-004
tblVehicleEF	UBUS	0.85	0.09

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.4410e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	6.4800e-004
tblVehicleEF	UBUS	0.08	9.0360e-003
tblVehicleEF	UBUS	2.5010e-003	4.6600e-004
tblVehicleEF	UBUS	3.55	5.97
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	ST_TR	49.97	46.12
tblVehicleTrips	SU_TR	25.24	21.10
tblVehicleTrips	WD_TR	8.17	8.36
tblVehicleTrips	WD_TR	42.70	37.04

## 2.0 Emissions Summary

---

## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
2021	1.3732	16.6811	8.0260	0.0233	7.3990	0.6563	8.0553	3.5094	0.6043	4.1137	0.0000	2,384.0665	2,384.0665	0.4551	0.0000	2,395.2649
2022	73.0230	9.0625	10.7233	0.0179	0.3946	0.4285	0.8026	0.1063	0.4053	0.4817	0.0000	1,774.4920	1,774.4920	0.3999	0.0000	1,784.4898
Maximum	73.0230	16.6811	10.7233	0.0233	7.3990	0.6563	8.0553	3.5094	0.6043	4.1137	0.0000	2,384.0665	2,384.0665	0.4551	0.0000	2,395.2649

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.3732	16.6811	8.0260	0.0233	3.0708	0.6563	3.7271	1.4191	0.6043	2.0234	0.0000	2,384.0665	2,384.0665	0.4551	0.0000	2,395.2649
2022	73.0230	9.0625	10.7233	0.0179	0.3946	0.4285	0.8026	0.1063	0.4053	0.4817	0.0000	1,774.4920	1,774.4920	0.3999	0.0000	1,784.4898
Maximum	73.0230	16.6811	10.7233	0.0233	3.0708	0.6563	3.7271	1.4191	0.6043	2.0234	0.0000	2,384.0665	2,384.0665	0.4551	0.0000	2,395.2649

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	55.54	0.00	48.86	57.81	0.00	45.49	0.00	0.00	0.00	0.00	0.00	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-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	lb/day										lb/day					
Area	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Energy	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
Mobile	2.8715	5.1531	25.6302	0.0682	6.1697	0.0680	6.2377	1.6477	0.0638	1.7115		7,084.5364	7,084.5364	0.5187		7,097.5047
<b>Total</b>	<b>4.3336</b>	<b>5.8692</b>	<b>26.2529</b>	<b>0.0725</b>	<b>6.1697</b>	<b>0.1225</b>	<b>6.2922</b>	<b>1.6477</b>	<b>0.1183</b>	<b>1.7660</b>		<b>7,943.7295</b>	<b>7,943.7295</b>	<b>0.5353</b>	<b>0.0158</b>	<b>7,961.8063</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Energy	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
Mobile	2.8715	5.1531	25.6302	0.0682	6.1697	0.0680	6.2377	1.6477	0.0638	1.7115		7,084.5364	7,084.5364	0.5187		7,097.5047
<b>Total</b>	<b>4.3336</b>	<b>5.8692</b>	<b>26.2529</b>	<b>0.0725</b>	<b>6.1697</b>	<b>0.1225</b>	<b>6.2922</b>	<b>1.6477</b>	<b>0.1183</b>	<b>1.7660</b>		<b>7,943.7295</b>	<b>7,943.7295</b>	<b>0.5353</b>	<b>0.0158</b>	<b>7,961.8063</b>



## 1130 South Hope Street (Unmitigated) - Los Angeles-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
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	5/10/2021	5/21/2021	5	10	
2	Grading	Grading	5/22/2021	8/6/2021	5	55	
3	Building Construction	Building Construction	8/7/2021	8/9/2022	5	262	
4	Architectural Coating	Architectural Coating	8/19/2022	10/6/2022	5	4	
5	Paving	Paving	9/7/2022	9/15/2022	5	7	

**Acres of Grading (Site Preparation Phase): 10**

**Acres of Grading (Grading Phase): 55**

**Acres of Paving: 0.05**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 92,523; Non-Residential Outdoor: 30,841; Striped Parking Area: 470 (Architectural Coating – sqft)**

#### OffRoad Equipment

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	1	8.00	212	0.43
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	779.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	29.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**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/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.0039	12.8926	4.2023	0.0145		0.4499	0.4499		0.4139	0.4139		1,402.046 2	1,402.046 2	0.4535		1,413.382 4
<b>Total</b>	<b>1.0039</b>	<b>12.8926</b>	<b>4.2023</b>	<b>0.0145</b>	<b>1.0605</b>	<b>0.4499</b>	<b>1.5104</b>	<b>0.1145</b>	<b>0.4139</b>	<b>0.5284</b>		<b>1,402.046 2</b>	<b>1,402.046 2</b>	<b>0.4535</b>		<b>1,413.382 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.0214</b>	<b>0.0147</b>	<b>0.2014</b>	<b>5.7000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>56.9385</b>	<b>56.9385</b>	<b>1.6800e-003</b>		<b>56.9804</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.2 Site Preparation - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	1.0039	12.8926	4.2023	0.0145		0.4499	0.4499		0.4139	0.4139	0.0000	1,402.046 2	1,402.046 2	0.4535		1,413.382 4
<b>Total</b>	<b>1.0039</b>	<b>12.8926</b>	<b>4.2023</b>	<b>0.0145</b>	<b>0.4136</b>	<b>0.4499</b>	<b>0.8635</b>	<b>0.0447</b>	<b>0.4139</b>	<b>0.4585</b>	<b>0.0000</b>	<b>1,402.046 2</b>	<b>1,402.046 2</b>	<b>0.4535</b>		<b>1,413.382 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.0214</b>	<b>0.0147</b>	<b>0.2014</b>	<b>5.7000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>56.9385</b>	<b>56.9385</b>	<b>1.6800e-003</b>		<b>56.9804</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**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/day										lb/day					
Fugitive Dust					7.0954	0.0000	7.0954	3.4267	0.0000	3.4267			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
<b>Total</b>	<b>1.2336</b>	<b>12.8671</b>	<b>6.2980</b>	<b>0.0116</b>	<b>7.0954</b>	<b>0.6442</b>	<b>7.7396</b>	<b>3.4267</b>	<b>0.5927</b>	<b>4.0194</b>		<b>1,128.2523</b>	<b>1,128.2523</b>	<b>0.3649</b>		<b>1,137.3748</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1181	3.7993	0.8908	0.0111	0.2477	0.0117	0.2593	0.0679	0.0112	0.0790		1,198.8757	1,198.8757	0.0814		1,200.9097
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	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.1395</b>	<b>3.8140</b>	<b>1.0922</b>	<b>0.0116</b>	<b>0.3036</b>	<b>0.0121</b>	<b>0.3157</b>	<b>0.0827</b>	<b>0.0116</b>	<b>0.0943</b>		<b>1,255.8142</b>	<b>1,255.8142</b>	<b>0.0830</b>		<b>1,257.8902</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.3 Grading - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7672	0.0000	2.7672	1.3364	0.0000	1.3364			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.252 3	1,128.252 3	0.3649		1,137.374 8
<b>Total</b>	<b>1.2336</b>	<b>12.8671</b>	<b>6.2980</b>	<b>0.0116</b>	<b>2.7672</b>	<b>0.6442</b>	<b>3.4114</b>	<b>1.3364</b>	<b>0.5927</b>	<b>1.9291</b>	<b>0.0000</b>	<b>1,128.252 3</b>	<b>1,128.252 3</b>	<b>0.3649</b>		<b>1,137.374 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1181	3.7993	0.8908	0.0111	0.2477	0.0117	0.2593	0.0679	0.0112	0.0790		1,198.875 7	1,198.875 7	0.0814		1,200.909 7
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	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.1395</b>	<b>3.8140</b>	<b>1.0922</b>	<b>0.0116</b>	<b>0.3036</b>	<b>0.0121</b>	<b>0.3157</b>	<b>0.0827</b>	<b>0.0116</b>	<b>0.0943</b>		<b>1,255.814 2</b>	<b>1,255.814 2</b>	<b>0.0830</b>		<b>1,257.890 2</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.4 Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.1034	6.5788	0.0119		0.4761	0.4761		0.4380	0.4380		1,155.7005	1,155.7005	0.3738		1,165.0449
<b>Total</b>	<b>0.8588</b>	<b>9.1034</b>	<b>6.5788</b>	<b>0.0119</b>		<b>0.4761</b>	<b>0.4761</b>		<b>0.4380</b>	<b>0.4380</b>		<b>1,155.7005</b>	<b>1,155.7005</b>	<b>0.3738</b>		<b>1,165.0449</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0334	1.0680	0.2792	2.8300e-003	0.0704	2.1800e-003	0.0726	0.0203	2.0900e-003	0.0224		302.3687	302.3687	0.0178		302.8140
Worker	0.1243	0.0854	1.1680	3.3200e-003	0.3242	2.6200e-003	0.3268	0.0860	2.4100e-003	0.0884		330.2433	330.2433	9.7300e-003		330.4865
<b>Total</b>	<b>0.1578</b>	<b>1.1534</b>	<b>1.4472</b>	<b>6.1500e-003</b>	<b>0.3946</b>	<b>4.8000e-003</b>	<b>0.3994</b>	<b>0.1063</b>	<b>4.5000e-003</b>	<b>0.1107</b>		<b>632.6120</b>	<b>632.6120</b>	<b>0.0275</b>		<b>633.3006</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.4 Building Construction - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.1034	6.5788	0.0119		0.4761	0.4761		0.4380	0.4380	0.0000	1,155.7005	1,155.7005	0.3738		1,165.0449
<b>Total</b>	<b>0.8588</b>	<b>9.1034</b>	<b>6.5788</b>	<b>0.0119</b>		<b>0.4761</b>	<b>0.4761</b>		<b>0.4380</b>	<b>0.4380</b>	<b>0.0000</b>	<b>1,155.7005</b>	<b>1,155.7005</b>	<b>0.3738</b>		<b>1,165.0449</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0334	1.0680	0.2792	2.8300e-003	0.0704	2.1800e-003	0.0726	0.0203	2.0900e-003	0.0224		302.3687	302.3687	0.0178		302.8140
Worker	0.1243	0.0854	1.1680	3.3200e-003	0.3242	2.6200e-003	0.3268	0.0860	2.4100e-003	0.0884		330.2433	330.2433	9.7300e-003		330.4865
<b>Total</b>	<b>0.1578</b>	<b>1.1534</b>	<b>1.4472</b>	<b>6.1500e-003</b>	<b>0.3946</b>	<b>4.8000e-003</b>	<b>0.3994</b>	<b>0.1063</b>	<b>4.5000e-003</b>	<b>0.1107</b>		<b>632.6120</b>	<b>632.6120</b>	<b>0.0275</b>		<b>633.3006</b>



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**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/day										lb/day					
Off-Road	0.7649	7.9697	6.4378	0.0119		0.4036	0.4036		0.3713	0.3713		1,156.1310	1,156.1310	0.3739		1,165.4789
<b>Total</b>	<b>0.7649</b>	<b>7.9697</b>	<b>6.4378</b>	<b>0.0119</b>		<b>0.4036</b>	<b>0.4036</b>		<b>0.3713</b>	<b>0.3713</b>		<b>1,156.1310</b>	<b>1,156.1310</b>	<b>0.3739</b>		<b>1,165.4789</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0314	1.0156	0.2642	2.8000e-003	0.0704	1.9100e-003	0.0723	0.0203	1.8300e-003	0.0221		299.7345	299.7345	0.0172		300.1645
Worker	0.1164	0.0772	1.0777	3.2000e-003	0.3242	2.5400e-003	0.3267	0.0860	2.3400e-003	0.0883		318.6266	318.6266	8.7900e-003		318.8464
<b>Total</b>	<b>0.1478</b>	<b>1.0928</b>	<b>1.3418</b>	<b>6.0000e-003</b>	<b>0.3946</b>	<b>4.4500e-003</b>	<b>0.3990</b>	<b>0.1063</b>	<b>4.1700e-003</b>	<b>0.1104</b>		<b>618.3611</b>	<b>618.3611</b>	<b>0.0260</b>		<b>619.0109</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.4 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7649	7.9697	6.4378	0.0119		0.4036	0.4036		0.3713	0.3713	0.0000	1,156.1310	1,156.1310	0.3739		1,165.4789
<b>Total</b>	<b>0.7649</b>	<b>7.9697</b>	<b>6.4378</b>	<b>0.0119</b>		<b>0.4036</b>	<b>0.4036</b>		<b>0.3713</b>	<b>0.3713</b>	<b>0.0000</b>	<b>1,156.1310</b>	<b>1,156.1310</b>	<b>0.3739</b>		<b>1,165.4789</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0314	1.0156	0.2642	2.8000e-003	0.0704	1.9100e-003	0.0723	0.0203	1.8300e-003	0.0221		299.7345	299.7345	0.0172		300.1645
Worker	0.1164	0.0772	1.0777	3.2000e-003	0.3242	2.5400e-003	0.3267	0.0860	2.3400e-003	0.0883		318.6266	318.6266	8.7900e-003		318.8464
<b>Total</b>	<b>0.1478</b>	<b>1.0928</b>	<b>1.3418</b>	<b>6.0000e-003</b>	<b>0.3946</b>	<b>4.4500e-003</b>	<b>0.3990</b>	<b>0.1063</b>	<b>4.1700e-003</b>	<b>0.1104</b>		<b>618.3611</b>	<b>618.3611</b>	<b>0.0260</b>		<b>619.0109</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.5 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/day										lb/day					
Archit. Coating	72.0186					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
<b>Total</b>	<b>72.2914</b>	<b>1.8780</b>	<b>2.4181</b>	<b>3.9600e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0244</b>		<b>375.8749</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0241	0.0160	0.2230	6.6000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		65.9227	65.9227	1.8200e-003		65.9682
<b>Total</b>	<b>0.0241</b>	<b>0.0160</b>	<b>0.2230</b>	<b>6.6000e-004</b>	<b>0.0671</b>	<b>5.2000e-004</b>	<b>0.0676</b>	<b>0.0178</b>	<b>4.8000e-004</b>	<b>0.0183</b>		<b>65.9227</b>	<b>65.9227</b>	<b>1.8200e-003</b>		<b>65.9682</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.5 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.0186					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
<b>Total</b>	<b>72.2914</b>	<b>1.8780</b>	<b>2.4181</b>	<b>3.9600e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0244</b>		<b>375.8749</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0241	0.0160	0.2230	6.6000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		65.9227	65.9227	1.8200e-003		65.9682
<b>Total</b>	<b>0.0241</b>	<b>0.0160</b>	<b>0.2230</b>	<b>6.6000e-004</b>	<b>0.0671</b>	<b>5.2000e-004</b>	<b>0.0676</b>	<b>0.0178</b>	<b>4.8000e-004</b>	<b>0.0183</b>		<b>65.9227</b>	<b>65.9227</b>	<b>1.8200e-003</b>		<b>65.9682</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6554	6.2368	7.5991	0.0119		0.3179	0.3179		0.2948	0.2948		1,111.6333	1,111.6333	0.3373		1,120.0668
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6554</b>	<b>6.2368</b>	<b>7.5991</b>	<b>0.0119</b>		<b>0.3179</b>	<b>0.3179</b>		<b>0.2948</b>	<b>0.2948</b>		<b>1,111.6333</b>	<b>1,111.6333</b>	<b>0.3373</b>		<b>1,120.0668</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0522	0.0346	0.4831	1.4300e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		142.8326	142.8326	3.9400e-003		142.9312
<b>Total</b>	<b>0.0522</b>	<b>0.0346</b>	<b>0.4831</b>	<b>1.4300e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>		<b>142.8326</b>	<b>142.8326</b>	<b>3.9400e-003</b>		<b>142.9312</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6554	6.2368	7.5991	0.0119		0.3179	0.3179		0.2948	0.2948	0.0000	1,111.6333	1,111.6333	0.3373		1,120.0668
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6554</b>	<b>6.2368</b>	<b>7.5991</b>	<b>0.0119</b>		<b>0.3179</b>	<b>0.3179</b>		<b>0.2948</b>	<b>0.2948</b>	<b>0.0000</b>	<b>1,111.6333</b>	<b>1,111.6333</b>	<b>0.3373</b>		<b>1,120.0668</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0522	0.0346	0.4831	1.4300e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		142.8326	142.8326	3.9400e-003		142.9312
<b>Total</b>	<b>0.0522</b>	<b>0.0346</b>	<b>0.4831</b>	<b>1.4300e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>		<b>142.8326</b>	<b>142.8326</b>	<b>3.9400e-003</b>		<b>142.9312</b>

**4.0 Operational Detail - Mobile**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8715	5.1531	25.6302	0.0682	6.1697	0.0680	6.2377	1.6477	0.0638	1.7115		7,084.5364	7,084.5364	0.5187		7,097.5047
Unmitigated	2.8715	5.1531	25.6302	0.0682	6.1697	0.0680	6.2377	1.6477	0.0638	1.7115		7,084.5364	7,084.5364	0.5187		7,097.5047

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,204.00	1,179.36	856.80	2,746,194	2,746,194
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	14.07	17.53	8.02	29,635	29,635
Total	1,218.07	1,196.89	864.82	2,775,829	2,775,829

**4.3 Trip Type Information**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Hotel	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Regional Shopping Center	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**



## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
NaturalGas Mitigated	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
NaturalGas Unmitigated	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529

## 5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7301.05	0.0787	0.7158	0.6013	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.9476	858.9476	0.0165	0.0158	864.0519
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.69841	2.0000e-005	1.7000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.1998	0.1998	0.0000	0.0000	0.2010
<b>Total</b>		<b>0.0788</b>	<b>0.7160</b>	<b>0.6014</b>	<b>4.2900e-003</b>		<b>0.0544</b>	<b>0.0544</b>		<b>0.0544</b>	<b>0.0544</b>		<b>859.1474</b>	<b>859.1474</b>	<b>0.0165</b>	<b>0.0158</b>	<b>864.2529</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.30105	0.0787	0.7158	0.6013	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.9476	858.9476	0.0165	0.0158	864.0519
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.00169841	2.0000e-005	1.7000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.1998	0.1998	0.0000	0.0000	0.2010
<b>Total</b>		<b>0.0788</b>	<b>0.7160</b>	<b>0.6014</b>	<b>4.2900e-003</b>		<b>0.0544</b>	<b>0.0544</b>		<b>0.0544</b>	<b>0.0544</b>		<b>859.1474</b>	<b>859.1474</b>	<b>0.0165</b>	<b>0.0158</b>	<b>864.2529</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
Mitigated	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Unmitigated	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
<b>Total</b>	<b>1.3833</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0457</b>	<b>0.0457</b>	<b>1.2000e-004</b>		<b>0.0487</b>

1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
Architectural Coating	0.1573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
<b>Total</b>	<b>1.3833</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0457</b>	<b>0.0457</b>	<b>1.2000e-004</b>		<b>0.0487</b>

**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****Fire Pumps and Emergency Generators**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Summer

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**

---

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**1130 South Hope Street (Unmitigated)**  
**Los Angeles-South Coast County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	62.00	Space	0.00	5,479.00	0
Other Non-Asphalt Surfaces	2.35	1000sqft	0.05	2,350.00	0
Hotel	144.00	Room	0.13	61,304.00	0
Regional Shopping Center	0.38	1000sqft	0.00	378.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

### 1.3 User Entered Comments & Non-Default Data

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

## Project Characteristics -

Land Use - Total Project site is 0.18 acres.

Construction Phase - Construction Schedule based on consultation with the Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Off-road Equipment - Construction Equipment based on consultation with Project Applicant.

Grading - For purposes of analysis, it is assumed that 1 acre will be disturbed per day

Architectural Coating - Rule 1113

Vehicle Trips - Trip characteristics based on information provided in the 1130 South Hope Street Traffic Impact Study prepared by KOA

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential 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	1.00	10.00
tblConstructionPhase	NumDays	2.00	55.00
tblConstructionPhase	NumDays	100.00	262.00
tblConstructionPhase	NumDays	5.00	4.00
tblConstructionPhase	NumDays	5.00	7.00
tblEnergyUse	LightingElect	1.75	1.23
tblEnergyUse	LightingElect	5.44	3.81

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblEnergyUse	LightingElect	5.61	3.93
tblEnergyUse	T24E	3.92	2.74
tblEnergyUse	T24E	6.47	4.53
tblEnergyUse	T24E	4.58	3.21
tblEnergyUse	T24NG	55.15	38.61
tblEnergyUse	T24NG	1.92	1.34
tblGrading	AcresOfGrading	0.00	55.00
tblGrading	MaterialExported	0.00	6,233.00
tblLandUse	LandUseSquareFeet	24,800.00	5,479.00
tblLandUse	LandUseSquareFeet	209,088.00	61,304.00
tblLandUse	LandUseSquareFeet	380.00	378.00
tblLandUse	LotAcreage	0.56	0.00
tblLandUse	LotAcreage	4.80	0.13
tblLandUse	LotAcreage	0.01	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblOffRoadEquipment	UsageHours	7.00	8.00
tblVehicleEF	HHD	0.62	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	2.47	6.23
tblVehicleEF	HHD	1.15	0.58
tblVehicleEF	HHD	3.30	9.5390e-003
tblVehicleEF	HHD	4,690.45	1,172.50
tblVehicleEF	HHD	1,639.83	1,482.70
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	20.39	6.32
tblVehicleEF	HHD	3.81	3.60
tblVehicleEF	HHD	19.54	2.06
tblVehicleEF	HHD	0.01	3.9370e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.7670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.7700e-004
tblVehicleEF	HHD	0.62	0.45
tblVehicleEF	HHD	7.9000e-005	5.0000e-006

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.9500e-004	1.5080e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.7700e-004
tblVehicleEF	HHD	0.72	0.52
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.9500e-004	1.5080e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.80	6.09
tblVehicleEF	HHD	1.16	0.59
tblVehicleEF	HHD	3.13	9.0610e-003
tblVehicleEF	HHD	4,968.94	1,168.97
tblVehicleEF	HHD	1,639.83	1,482.70
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	21.04	6.13
tblVehicleEF	HHD	3.60	3.41
tblVehicleEF	HHD	19.53	2.06
tblVehicleEF	HHD	0.01	3.4420e-003
tblVehicleEF	HHD	0.06	0.06

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.2930e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.8200e-004
tblVehicleEF	HHD	0.58	0.47
tblVehicleEF	HHD	1.1400e-004	8.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.8400e-004	1.4870e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.5700e-004	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.8200e-004
tblVehicleEF	HHD	0.68	0.55
tblVehicleEF	HHD	1.1400e-004	8.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.8400e-004	1.4870e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.67	0.02
tblVehicleEF	HHD	0.09	3.6360e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	3.41	6.32
tblVehicleEF	HHD	1.15	0.38
tblVehicleEF	HHD	3.33	9.6340e-003
tblVehicleEF	HHD	4,305.87	1,158.96
tblVehicleEF	HHD	1,639.83	1,430.09
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	19.48	6.47
tblVehicleEF	HHD	3.75	3.49
tblVehicleEF	HHD	19.55	2.06
tblVehicleEF	HHD	0.02	4.3710e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.02	4.1820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.7580e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	8.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.1500e-004
tblVehicleEF	HHD	0.66	0.42
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.2900e-004	1.6010e-003
tblVehicleEF	HHD	0.08	3.0000e-006

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	8.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.1500e-004
tblVehicleEF	HHD	0.78	0.48
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.09
tblVehicleEF	HHD	4.2900e-004	1.6010e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	LDA	5.3420e-003	3.0240e-003
tblVehicleEF	LDA	5.4040e-003	0.05
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	1.15	2.10
tblVehicleEF	LDA	274.33	272.47
tblVehicleEF	LDA	57.08	53.62
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	2.7480e-003	2.6780e-003
tblVehicleEF	LDA	5.9000e-004	5.2700e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	5.6740e-003	3.2280e-003
tblVehicleEF	LDA	4.8010e-003	0.04
tblVehicleEF	LDA	0.72	0.79
tblVehicleEF	LDA	0.98	1.79
tblVehicleEF	LDA	287.10	284.40
tblVehicleEF	LDA	57.08	53.05
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDA	2.8760e-003	2.7950e-003
tblVehicleEF	LDA	5.8700e-004	5.2200e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.2330e-003	2.9600e-003
tblVehicleEF	LDA	5.5300e-003	0.05
tblVehicleEF	LDA	0.63	0.69
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	269.66	268.07
tblVehicleEF	LDA	57.08	53.75
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	2.1700e-003	1.8010e-003
tblVehicleEF	LDA	2.2660e-003	1.8420e-003
tblVehicleEF	LDA	2.0000e-003	1.6590e-003
tblVehicleEF	LDA	2.0830e-003	1.6940e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.7010e-003	2.6350e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDA	5.9100e-004	5.2800e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.02	7.7270e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.68	1.45
tblVehicleEF	LDT1	2.78	2.27
tblVehicleEF	LDT1	341.15	320.55
tblVehicleEF	LDT1	69.44	63.67
tblVehicleEF	LDT1	0.16	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.4330e-003	3.1520e-003
tblVehicleEF	LDT1	7.4300e-004	6.2600e-004



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.02	8.1770e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.82	1.58
tblVehicleEF	LDT1	2.36	1.93
tblVehicleEF	LDT1	356.02	332.71
tblVehicleEF	LDT1	69.44	63.00
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.17	0.31
tblVehicleEF	LDT1	3.5840e-003	3.2710e-003
tblVehicleEF	LDT1	7.3600e-004	6.1900e-004
tblVehicleEF	LDT1	0.20	0.20

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.18	0.34
tblVehicleEF	LDT1	0.02	7.5820e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.63	1.41
tblVehicleEF	LDT1	2.87	2.35
tblVehicleEF	LDT1	335.69	316.06
tblVehicleEF	LDT1	69.44	63.82
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6310e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4190e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.22
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.82
tblVehicleEF	LDT1	0.20	0.36
tblVehicleEF	LDT1	3.3780e-003	3.1070e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.22

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.82
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9730e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	343.42
tblVehicleEF	LDT2	78.07	68.73
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3760e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.2910e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	355.31
tblVehicleEF	LDT2	78.07	67.99
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	3.9980e-003	3.4930e-003
tblVehicleEF	LDT2	8.0000e-004	6.6800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8730e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
tblVehicleEF	LDT2	1.39	2.74
tblVehicleEF	LDT2	375.62	339.02
tblVehicleEF	LDT2	78.07	68.90
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9110e-003
tblVehicleEF	LDT2	2.3580e-003	1.8910e-003
tblVehicleEF	LDT2	1.9790e-003	1.7590e-003
tblVehicleEF	LDT2	2.1690e-003	1.7390e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	3.7630e-003	3.3320e-003
tblVehicleEF	LDT2	8.0400e-004	6.7700e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.6110e-003
tblVehicleEF	LHD1	0.01	5.6770e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.04
tblVehicleEF	LHD1	33.34	12.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.63
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.1460e-003	2.5540e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5610e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.55

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5150e-003
tblVehicleEF	LHD1	3.8500e-004	1.2400e-004
tblVehicleEF	LHD1	3.1460e-003	2.5540e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5610e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.6230e-003
tblVehicleEF	LHD1	0.01	5.7930e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.66
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.06
tblVehicleEF	LHD1	33.34	12.39
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.89	0.59
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.7600e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.1600e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5150e-003
tblVehicleEF	LHD1	3.8300e-004	1.2300e-004
tblVehicleEF	LHD1	4.7100e-003	3.7600e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.1600e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.5970e-003	5.6090e-003
tblVehicleEF	LHD1	0.01	5.6460e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.64
tblVehicleEF	LHD1	2.81	1.15



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD1	8.92	8.88
tblVehicleEF	LHD1	603.81	667.03
tblVehicleEF	LHD1	33.34	12.50
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.94	0.62
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5000e-004
tblVehicleEF	LHD1	0.01	9.6680e-003
tblVehicleEF	LHD1	9.1270e-003	6.2840e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.1700e-004
tblVehicleEF	LHD1	2.5160e-003	2.4170e-003
tblVehicleEF	LHD1	8.7050e-003	5.9830e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.6900e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5400e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5150e-003
tblVehicleEF	LHD1	3.8600e-004	1.2400e-004
tblVehicleEF	LHD1	3.3080e-003	2.6900e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD1	1.8850e-003	1.5400e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9440e-003
tblVehicleEF	LHD2	4.2980e-003	3.9460e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.77
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.37
tblVehicleEF	LHD2	27.88	9.65
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.65	0.81
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.1380e-003	1.5770e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD2	7.4500e-004	9.7800e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5770e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7800e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9530e-003
tblVehicleEF	LHD2	4.3570e-003	3.9910e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.74
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.38
tblVehicleEF	LHD2	27.88	9.59
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.61	0.76
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.6960e-003	2.3210e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3550e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0300e-004	9.5000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3210e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3550e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9420e-003
tblVehicleEF	LHD2	4.2820e-003	3.9330e-003
tblVehicleEF	LHD2	8.5780e-003	0.01

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.43
tblVehicleEF	LHD2	1.38	0.78
tblVehicleEF	LHD2	13.57	13.40
tblVehicleEF	LHD2	617.83	668.37
tblVehicleEF	LHD2	27.88	9.66
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.64	0.80
tblVehicleEF	LHD2	0.56	0.24
tblVehicleEF	LHD2	1.1620e-003	1.2440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	9.8680e-003
tblVehicleEF	LHD2	4.6900e-004	1.6300e-004
tblVehicleEF	LHD2	1.1110e-003	1.1900e-003
tblVehicleEF	LHD2	2.6540e-003	2.6300e-003
tblVehicleEF	LHD2	8.4540e-003	9.4240e-003
tblVehicleEF	LHD2	4.3100e-004	1.5000e-004
tblVehicleEF	LHD2	1.1610e-003	1.6340e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	9.5000e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.39
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4710e-003
tblVehicleEF	LHD2	3.0400e-004	9.6000e-005

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	LHD2	1.1610e-003	1.6340e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.5000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.39
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.94	19.11
tblVehicleEF	MCY	9.66	8.52
tblVehicleEF	MCY	188.92	223.68
tblVehicleEF	MCY	44.52	59.56
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.06	1.08
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	0.65	0.66
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.98
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.2780e-003	2.2130e-003
tblVehicleEF	MCY	6.6300e-004	5.8900e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MCY	1.06	1.08
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	0.65	0.66
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.60	1.98
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.37
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.28
tblVehicleEF	MCY	44.52	57.67
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.73	1.72
tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.86
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.2000e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.72

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.86
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.25
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.96
tblVehicleEF	MCY	44.52	59.94
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4430e-003
tblVehicleEF	MCY	3.8630e-003	3.2940e-003
tblVehicleEF	MCY	2.2770e-003	2.2830e-003
tblVehicleEF	MCY	3.6360e-003	3.1000e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.84
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	0.69	2.28
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2160e-003
tblVehicleEF	MCY	6.6700e-004	5.9300e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.84



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.28
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5350e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.10
tblVehicleEF	MDV	512.22	421.49
tblVehicleEF	MDV	103.14	83.59
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.34
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1410e-003
tblVehicleEF	MDV	1.0750e-003	8.2200e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9310e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.32
tblVehicleEF	MDV	2.12	2.63
tblVehicleEF	MDV	534.67	433.96
tblVehicleEF	MDV	103.14	82.70
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	5.3570e-003	4.2630e-003
tblVehicleEF	MDV	1.0680e-003	8.1300e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.05	0.04

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4070e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	416.89
tblVehicleEF	MDV	103.14	83.79
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0880e-003
tblVehicleEF	MDV	2.5140e-003	2.0610e-003
tblVehicleEF	MDV	2.1720e-003	1.9250e-003
tblVehicleEF	MDV	2.3120e-003	1.8950e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	5.0480e-003	4.0950e-003
tblVehicleEF	MDV	1.0760e-003	8.2400e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.24	0.27
tblVehicleEF	MH	5.78	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	1.08	3.43
tblVehicleEF	MH	0.80	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	7.0500e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.12	0.08

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.30	0.27
tblVehicleEF	MH	5.44	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	0.99	3.24
tblVehicleEF	MH	0.76	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	1.41	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.58	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	6.9900e-004	0.00
tblVehicleEF	MH	1.41	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.58	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.1210e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.22	0.27
tblVehicleEF	MH	5.83	0.00
tblVehicleEF	MH	1,130.03	965.33
tblVehicleEF	MH	60.43	0.00
tblVehicleEF	MH	1.06	3.37
tblVehicleEF	MH	0.80	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.1280e-003	0.00
tblVehicleEF	MH	3.2020e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0370e-003	0.00
tblVehicleEF	MH	1.08	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.01	9.1260e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.08	0.00
tblVehicleEF	MH	0.08	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	4.4240e-003
tblVehicleEF	MHD	4.8560e-003	4.6020e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.39
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.14	1.44
tblVehicleEF	MHD	132.92	67.32
tblVehicleEF	MHD	1,150.98	1,070.87
tblVehicleEF	MHD	63.58	12.17
tblVehicleEF	MHD	0.49	0.47
tblVehicleEF	MHD	1.14	1.63
tblVehicleEF	MHD	9.96	1.29
tblVehicleEF	MHD	2.4800e-004	1.0730e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004
tblVehicleEF	MHD	2.3800e-004	1.0270e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.1350e-003	6.6800e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.3000e-004
tblVehicleEF	MHD	0.05	0.06

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	MHD	1.2810e-003	6.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4300e-004	1.2000e-004
tblVehicleEF	MHD	1.1350e-003	6.6800e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.3000e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.1930e-003
tblVehicleEF	MHD	4.9280e-003	4.6540e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	0.38	0.48
tblVehicleEF	MHD	5.83	1.36
tblVehicleEF	MHD	140.78	68.14
tblVehicleEF	MHD	1,150.98	1,070.88
tblVehicleEF	MHD	63.58	12.05
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.28
tblVehicleEF	MHD	2.0900e-004	9.0700e-004
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MHD	2.0000e-004	8.6800e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3800e-004	1.1900e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07
tblVehicleEF	MHD	0.02	4.7550e-003
tblVehicleEF	MHD	4.8360e-003	4.5850e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.52	0.49
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.20	1.45
tblVehicleEF	MHD	122.05	66.18

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MHD	1,150.98	1,070.87
tblVehicleEF	MHD	63.58	12.19
tblVehicleEF	MHD	0.47	0.47
tblVehicleEF	MHD	1.12	1.60
tblVehicleEF	MHD	9.97	1.29
tblVehicleEF	MHD	3.0200e-004	1.3020e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3800e-004
tblVehicleEF	MHD	2.8900e-004	1.2460e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2700e-004
tblVehicleEF	MHD	1.1690e-003	6.9100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.2100e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4400e-004	1.2100e-004
tblVehicleEF	MHD	1.1690e-003	6.9100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.2100e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.16

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	OBUS	0.01	8.4750e-003
tblVehicleEF	OBUS	7.7220e-003	6.9630e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.60
tblVehicleEF	OBUS	0.53	0.78
tblVehicleEF	OBUS	5.41	2.39
tblVehicleEF	OBUS	112.13	94.21
tblVehicleEF	OBUS	1,260.49	1,391.50
tblVehicleEF	OBUS	67.92	19.24
tblVehicleEF	OBUS	0.51	0.46
tblVehicleEF	OBUS	1.55	1.57
tblVehicleEF	OBUS	2.60	0.75
tblVehicleEF	OBUS	1.1400e-004	7.8900e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4100e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	8.9600e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7400e-004	1.9000e-004
tblVehicleEF	OBUS	1.4340e-003	1.8390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.4100e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5340e-003
tblVehicleEF	OBUS	7.8490e-003	7.0850e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.58
tblVehicleEF	OBUS	0.54	0.80
tblVehicleEF	OBUS	5.11	2.26
tblVehicleEF	OBUS	117.81	94.08
tblVehicleEF	OBUS	1,260.49	1,391.52
tblVehicleEF	OBUS	67.92	19.02
tblVehicleEF	OBUS	0.53	0.45
tblVehicleEF	OBUS	1.46	1.48
tblVehicleEF	OBUS	2.57	0.74
tblVehicleEF	OBUS	9.6000e-005	6.7100e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	9.2000e-005	6.4200e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	OBUS	2.1010e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3070e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	1.1360e-003	8.9500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8800e-004
tblVehicleEF	OBUS	2.1010e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0830e-003	1.3070e-003
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4130e-003
tblVehicleEF	OBUS	7.6880e-003	6.9290e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.61
tblVehicleEF	OBUS	0.53	0.78
tblVehicleEF	OBUS	5.47	2.42
tblVehicleEF	OBUS	104.30	94.40
tblVehicleEF	OBUS	1,260.49	1,391.49
tblVehicleEF	OBUS	67.92	19.29
tblVehicleEF	OBUS	0.49	0.47

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	OBUS	1.52	1.55
tblVehicleEF	OBUS	2.61	0.76
tblVehicleEF	OBUS	1.3900e-004	9.5300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.3300e-004	9.1200e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9220e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2400e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	1.0070e-003	8.9800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9220e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.4700e-004	9.2400e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0600e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	0.06	6.7770e-003
tblVehicleEF	SBUS	8.15	2.99
tblVehicleEF	SBUS	0.72	0.60
tblVehicleEF	SBUS	7.31	0.93
tblVehicleEF	SBUS	1,121.00	354.63
tblVehicleEF	SBUS	1,079.30	1,100.97
tblVehicleEF	SBUS	55.06	5.73
tblVehicleEF	SBUS	9.20	3.14
tblVehicleEF	SBUS	4.17	4.65
tblVehicleEF	SBUS	12.12	0.90
tblVehicleEF	SBUS	9.3410e-003	3.9540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	8.9370e-003	3.7830e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	3.3650e-003	9.8900e-004
tblVehicleEF	SBUS	0.03	8.5880e-003
tblVehicleEF	SBUS	0.97	0.34
tblVehicleEF	SBUS	1.7650e-003	5.2700e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3860e-003
tblVehicleEF	SBUS	0.01	0.01

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	6.7700e-004	5.7000e-005
tblVehicleEF	SBUS	3.3650e-003	9.8900e-004
tblVehicleEF	SBUS	0.03	8.5880e-003
tblVehicleEF	SBUS	1.40	0.49
tblVehicleEF	SBUS	1.7650e-003	5.2700e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.1400e-003
tblVehicleEF	SBUS	0.06	6.0470e-003
tblVehicleEF	SBUS	8.04	2.95
tblVehicleEF	SBUS	0.73	0.61
tblVehicleEF	SBUS	5.94	0.76
tblVehicleEF	SBUS	1,171.46	362.29
tblVehicleEF	SBUS	1,079.30	1,100.99
tblVehicleEF	SBUS	55.06	5.44
tblVehicleEF	SBUS	9.50	3.21
tblVehicleEF	SBUS	3.93	4.39
tblVehicleEF	SBUS	12.09	0.90
tblVehicleEF	SBUS	7.8750e-003	3.3400e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	7.5340e-003	3.1960e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	4.9570e-003	1.4290e-003
tblVehicleEF	SBUS	0.03	8.7250e-003
tblVehicleEF	SBUS	0.97	0.34
tblVehicleEF	SBUS	2.5080e-003	7.3100e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.03
tblVehicleEF	SBUS	0.01	3.4580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5400e-004	5.4000e-005
tblVehicleEF	SBUS	4.9570e-003	1.4290e-003
tblVehicleEF	SBUS	0.03	8.7250e-003
tblVehicleEF	SBUS	1.40	0.49
tblVehicleEF	SBUS	2.5080e-003	7.3100e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0350e-003
tblVehicleEF	SBUS	0.07	6.9450e-003
tblVehicleEF	SBUS	8.31	3.04
tblVehicleEF	SBUS	0.72	0.60
tblVehicleEF	SBUS	7.56	0.96
tblVehicleEF	SBUS	1,051.30	344.05
tblVehicleEF	SBUS	1,079.30	1,100.97
tblVehicleEF	SBUS	55.06	5.78

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	8.80	3.05
tblVehicleEF	SBUS	4.10	4.57
tblVehicleEF	SBUS	12.13	0.90
tblVehicleEF	SBUS	0.01	4.8000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.5000e-005
tblVehicleEF	SBUS	0.01	4.5930e-003
tblVehicleEF	SBUS	2.6670e-003	2.6630e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	5.1000e-005
tblVehicleEF	SBUS	3.4320e-003	1.0030e-003
tblVehicleEF	SBUS	0.03	9.0230e-003
tblVehicleEF	SBUS	0.98	0.34
tblVehicleEF	SBUS	1.6940e-003	5.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8100e-004	5.7000e-005
tblVehicleEF	SBUS	3.4320e-003	1.0030e-003
tblVehicleEF	SBUS	0.03	9.0230e-003
tblVehicleEF	SBUS	1.41	0.49
tblVehicleEF	SBUS	1.6940e-003	5.0600e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.07

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	SBUS	0.43	0.04
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.22	45.42
tblVehicleEF	UBUS	8.87	0.71
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.61
tblVehicleEF	UBUS	9.98	0.47
tblVehicleEF	UBUS	15.36	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	4.1440e-003	6.6500e-004
tblVehicleEF	UBUS	0.07	8.4730e-003
tblVehicleEF	UBUS	2.3870e-003	4.9100e-004
tblVehicleEF	UBUS	0.85	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.4410e-003
tblVehicleEF	UBUS	1.1250e-003	8.5000e-005
tblVehicleEF	UBUS	4.1440e-003	6.6500e-004
tblVehicleEF	UBUS	0.07	8.4730e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	UBUS	2.3870e-003	4.9100e-004
tblVehicleEF	UBUS	3.56	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.74	0.05
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.42
tblVehicleEF	UBUS	7.69	0.63
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.46
tblVehicleEF	UBUS	9.41	0.47
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	5.9080e-003	9.6200e-004
tblVehicleEF	UBUS	0.07	8.7330e-003
tblVehicleEF	UBUS	3.2830e-003	6.7600e-004
tblVehicleEF	UBUS	0.86	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.4410e-003

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	UBUS	1.1050e-003	8.4000e-005
tblVehicleEF	UBUS	5.9080e-003	9.6200e-004
tblVehicleEF	UBUS	0.07	8.7330e-003
tblVehicleEF	UBUS	3.2830e-003	6.7600e-004
tblVehicleEF	UBUS	3.57	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	2.61	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.21	45.42
tblVehicleEF	UBUS	9.08	0.73
tblVehicleEF	UBUS	1,968.89	1,991.58
tblVehicleEF	UBUS	96.56	8.64
tblVehicleEF	UBUS	9.79	0.47
tblVehicleEF	UBUS	15.38	0.09
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.1840e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.13	3.0430e-003
tblVehicleEF	UBUS	9.9900e-004	4.3000e-005
tblVehicleEF	UBUS	4.7000e-003	6.4800e-004
tblVehicleEF	UBUS	0.08	9.0360e-003
tblVehicleEF	UBUS	2.5010e-003	4.6600e-004
tblVehicleEF	UBUS	0.85	0.09

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.4410e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	6.4800e-004
tblVehicleEF	UBUS	0.08	9.0360e-003
tblVehicleEF	UBUS	2.5010e-003	4.6600e-004
tblVehicleEF	UBUS	3.55	5.97
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	ST_TR	49.97	46.12
tblVehicleTrips	SU_TR	25.24	21.10
tblVehicleTrips	WD_TR	8.17	8.36
tblVehicleTrips	WD_TR	42.70	37.04

## 2.0 Emissions Summary

---

## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
2021	1.3784	16.7293	7.9556	0.0230	7.3990	0.6565	8.0555	3.5094	0.6044	4.1138	0.0000	2,359.972 2	2,359.972 2	0.4550	0.0000	2,371.239 8
2022	73.0318	9.0680	10.6617	0.0178	0.3946	0.4285	0.8027	0.1063	0.4053	0.4818	0.0000	1,747.623 4	1,747.623 4	0.4005	0.0000	1,757.635 8
Maximum	73.0318	16.7293	10.6617	0.0230	7.3990	0.6565	8.0555	3.5094	0.6044	4.1138	0.0000	2,359.972 2	2,359.972 2	0.4550	0.0000	2,371.239 8

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.3784	16.7293	7.9556	0.0230	3.0708	0.6565	3.7273	1.4191	0.6044	2.0235	0.0000	2,359.972 2	2,359.972 2	0.4550	0.0000	2,371.239 8
2022	73.0318	9.0680	10.6617	0.0178	0.3946	0.4285	0.8027	0.1063	0.4053	0.4818	0.0000	1,747.623 4	1,747.623 4	0.4005	0.0000	1,757.635 8
Maximum	73.0318	16.7293	10.6617	0.0230	3.0708	0.6565	3.7273	1.4191	0.6044	2.0235	0.0000	2,359.972 2	2,359.972 2	0.4550	0.0000	2,371.239 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	55.54	0.00	48.86	57.81	0.00	45.48	0.00	0.00	0.00	0.00	0.00	0.00

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Energy	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
Mobile	2.9681	5.4266	24.8898	0.0656	6.1689	0.0680	6.2369	1.6474	0.0638	1.7112		6,791.8615	6,791.8615	0.4888		6,804.0821
<b>Total</b>	<b>4.4302</b>	<b>6.1428</b>	<b>25.5126</b>	<b>0.0699</b>	<b>6.1689</b>	<b>0.1225</b>	<b>6.2914</b>	<b>1.6474</b>	<b>0.1183</b>	<b>1.7657</b>		<b>7,651.0545</b>	<b>7,651.0545</b>	<b>0.5054</b>	<b>0.0158</b>	<b>7,668.3837</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Energy	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
Mobile	2.9681	5.4266	24.8898	0.0656	6.1689	0.0680	6.2369	1.6474	0.0638	1.7112		6,791.8615	6,791.8615	0.4888		6,804.0821
<b>Total</b>	<b>4.4302</b>	<b>6.1428</b>	<b>25.5126</b>	<b>0.0699</b>	<b>6.1689</b>	<b>0.1225</b>	<b>6.2914</b>	<b>1.6474</b>	<b>0.1183</b>	<b>1.7657</b>		<b>7,651.0545</b>	<b>7,651.0545</b>	<b>0.5054</b>	<b>0.0158</b>	<b>7,668.3837</b>



## 1130 South Hope Street (Unmitigated) - Los Angeles-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
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	5/10/2021	5/21/2021	5	10	
2	Grading	Grading	5/22/2021	8/6/2021	5	55	
3	Building Construction	Building Construction	8/7/2021	8/9/2022	5	262	
4	Architectural Coating	Architectural Coating	8/19/2022	10/6/2022	5	4	
5	Paving	Paving	9/7/2022	9/15/2022	5	7	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 55

Acres of Paving: 0.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 92,523; Non-Residential Outdoor: 30,841; Striped Parking Area: 470 (Architectural Coating – sqft)

#### OffRoad Equipment

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	1	8.00	212	0.43
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	779.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	29.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**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/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.0039	12.8926	4.2023	0.0145		0.4499	0.4499		0.4139	0.4139		1,402.046 2	1,402.046 2	0.4535		1,413.382 4
<b>Total</b>	<b>1.0039</b>	<b>12.8926</b>	<b>4.2023</b>	<b>0.0145</b>	<b>1.0605</b>	<b>0.4499</b>	<b>1.5104</b>	<b>0.1145</b>	<b>0.4139</b>	<b>0.5284</b>		<b>1,402.046 2</b>	<b>1,402.046 2</b>	<b>0.4535</b>		<b>1,413.382 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.0238</b>	<b>0.0163</b>	<b>0.1841</b>	<b>5.4000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>53.6126</b>	<b>53.6126</b>	<b>1.5800e-003</b>		<b>53.6520</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.2 Site Preparation - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	1.0039	12.8926	4.2023	0.0145		0.4499	0.4499		0.4139	0.4139	0.0000	1,402.046 2	1,402.046 2	0.4535		1,413.382 4
<b>Total</b>	<b>1.0039</b>	<b>12.8926</b>	<b>4.2023</b>	<b>0.0145</b>	<b>0.4136</b>	<b>0.4499</b>	<b>0.8635</b>	<b>0.0447</b>	<b>0.4139</b>	<b>0.4585</b>	<b>0.0000</b>	<b>1,402.046 2</b>	<b>1,402.046 2</b>	<b>0.4535</b>		<b>1,413.382 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.0238</b>	<b>0.0163</b>	<b>0.1841</b>	<b>5.4000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>53.6126</b>	<b>53.6126</b>	<b>1.5800e-003</b>		<b>53.6520</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**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/day										lb/day					
Fugitive Dust					7.0954	0.0000	7.0954	3.4267	0.0000	3.4267			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
<b>Total</b>	<b>1.2336</b>	<b>12.8671</b>	<b>6.2980</b>	<b>0.0116</b>	<b>7.0954</b>	<b>0.6442</b>	<b>7.7396</b>	<b>3.4267</b>	<b>0.5927</b>	<b>4.0194</b>		<b>1,128.2523</b>	<b>1,128.2523</b>	<b>0.3649</b>		<b>1,137.3748</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1209	3.8458	0.9446	0.0109	0.2477	0.0118	0.2595	0.0679	0.0113	0.0792		1,178.1073	1,178.1073	0.0842		1,180.2130
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	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.1448</b>	<b>3.8622</b>	<b>1.1288</b>	<b>0.0114</b>	<b>0.3036</b>	<b>0.0123</b>	<b>0.3158</b>	<b>0.0827</b>	<b>0.0118</b>	<b>0.0945</b>		<b>1,231.7199</b>	<b>1,231.7199</b>	<b>0.0858</b>		<b>1,233.8650</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.3 Grading - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7672	0.0000	2.7672	1.3364	0.0000	1.3364			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748
<b>Total</b>	<b>1.2336</b>	<b>12.8671</b>	<b>6.2980</b>	<b>0.0116</b>	<b>2.7672</b>	<b>0.6442</b>	<b>3.4114</b>	<b>1.3364</b>	<b>0.5927</b>	<b>1.9291</b>	<b>0.0000</b>	<b>1,128.2523</b>	<b>1,128.2523</b>	<b>0.3649</b>		<b>1,137.3748</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1209	3.8458	0.9446	0.0109	0.2477	0.0118	0.2595	0.0679	0.0113	0.0792		1,178.1073	1,178.1073	0.0842		1,180.2130
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	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.1448</b>	<b>3.8622</b>	<b>1.1288</b>	<b>0.0114</b>	<b>0.3036</b>	<b>0.0123</b>	<b>0.3158</b>	<b>0.0827</b>	<b>0.0118</b>	<b>0.0945</b>		<b>1,231.7199</b>	<b>1,231.7199</b>	<b>0.0858</b>		<b>1,233.8650</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.4 Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.1034	6.5788	0.0119		0.4761	0.4761		0.4380	0.4380		1,155.7005	1,155.7005	0.3738		1,165.0449
<b>Total</b>	<b>0.8588</b>	<b>9.1034</b>	<b>6.5788</b>	<b>0.0119</b>		<b>0.4761</b>	<b>0.4761</b>		<b>0.4380</b>	<b>0.4380</b>		<b>1,155.7005</b>	<b>1,155.7005</b>	<b>0.3738</b>		<b>1,165.0449</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0351	1.0658	0.3089	2.7500e-003	0.0704	2.2500e-003	0.0727	0.0203	2.1600e-003	0.0224		294.0801	294.0801	0.0190		294.5547
Worker	0.1383	0.0946	1.0679	3.1200e-003	0.3242	2.6200e-003	0.3268	0.0860	2.4100e-003	0.0884		310.9528	310.9528	9.1500e-003		311.1816
<b>Total</b>	<b>0.1734</b>	<b>1.1604</b>	<b>1.3768</b>	<b>5.8700e-003</b>	<b>0.3946</b>	<b>4.8700e-003</b>	<b>0.3995</b>	<b>0.1063</b>	<b>4.5700e-003</b>	<b>0.1108</b>		<b>605.0329</b>	<b>605.0329</b>	<b>0.0281</b>		<b>605.7363</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.4 Building Construction - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.1034	6.5788	0.0119		0.4761	0.4761		0.4380	0.4380	0.0000	1,155.7005	1,155.7005	0.3738		1,165.0449
<b>Total</b>	<b>0.8588</b>	<b>9.1034</b>	<b>6.5788</b>	<b>0.0119</b>		<b>0.4761</b>	<b>0.4761</b>		<b>0.4380</b>	<b>0.4380</b>	<b>0.0000</b>	<b>1,155.7005</b>	<b>1,155.7005</b>	<b>0.3738</b>		<b>1,165.0449</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0351	1.0658	0.3089	2.7500e-003	0.0704	2.2500e-003	0.0727	0.0203	2.1600e-003	0.0224		294.0801	294.0801	0.0190		294.5547
Worker	0.1383	0.0946	1.0679	3.1200e-003	0.3242	2.6200e-003	0.3268	0.0860	2.4100e-003	0.0884		310.9528	310.9528	9.1500e-003		311.1816
<b>Total</b>	<b>0.1734</b>	<b>1.1604</b>	<b>1.3768</b>	<b>5.8700e-003</b>	<b>0.3946</b>	<b>4.8700e-003</b>	<b>0.3995</b>	<b>0.1063</b>	<b>4.5700e-003</b>	<b>0.1108</b>		<b>605.0329</b>	<b>605.0329</b>	<b>0.0281</b>		<b>605.7363</b>



## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**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/day										lb/day					
Off-Road	0.7649	7.9697	6.4378	0.0119		0.4036	0.4036		0.3713	0.3713		1,156.1310	1,156.1310	0.3739		1,165.4789
<b>Total</b>	<b>0.7649</b>	<b>7.9697</b>	<b>6.4378</b>	<b>0.0119</b>		<b>0.4036</b>	<b>0.4036</b>		<b>0.3713</b>	<b>0.3713</b>		<b>1,156.1310</b>	<b>1,156.1310</b>	<b>0.3739</b>		<b>1,165.4789</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0330	1.0129	0.2924	2.7300e-003	0.0704	1.9700e-003	0.0724	0.0203	1.8900e-003	0.0222		291.4673	291.4673	0.0183		291.9253
Worker	0.1299	0.0854	0.9836	3.0100e-003	0.3242	2.5400e-003	0.3267	0.0860	2.3400e-003	0.0883		300.0251	300.0251	8.2600e-003		300.2317
<b>Total</b>	<b>0.1628</b>	<b>1.0983</b>	<b>1.2760</b>	<b>5.7400e-003</b>	<b>0.3946</b>	<b>4.5100e-003</b>	<b>0.3991</b>	<b>0.1063</b>	<b>4.2300e-003</b>	<b>0.1105</b>		<b>591.4925</b>	<b>591.4925</b>	<b>0.0266</b>		<b>592.1569</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.4 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7649	7.9697	6.4378	0.0119		0.4036	0.4036		0.3713	0.3713	0.0000	1,156.1310	1,156.1310	0.3739		1,165.4789
<b>Total</b>	<b>0.7649</b>	<b>7.9697</b>	<b>6.4378</b>	<b>0.0119</b>		<b>0.4036</b>	<b>0.4036</b>		<b>0.3713</b>	<b>0.3713</b>	<b>0.0000</b>	<b>1,156.1310</b>	<b>1,156.1310</b>	<b>0.3739</b>		<b>1,165.4789</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0330	1.0129	0.2924	2.7300e-003	0.0704	1.9700e-003	0.0724	0.0203	1.8900e-003	0.0222		291.4673	291.4673	0.0183		291.9253
Worker	0.1299	0.0854	0.9836	3.0100e-003	0.3242	2.5400e-003	0.3267	0.0860	2.3400e-003	0.0883		300.0251	300.0251	8.2600e-003		300.2317
<b>Total</b>	<b>0.1628</b>	<b>1.0983</b>	<b>1.2760</b>	<b>5.7400e-003</b>	<b>0.3946</b>	<b>4.5100e-003</b>	<b>0.3991</b>	<b>0.1063</b>	<b>4.2300e-003</b>	<b>0.1105</b>		<b>591.4925</b>	<b>591.4925</b>	<b>0.0266</b>		<b>592.1569</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.5 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/day										lb/day					
Archit. Coating	72.0186					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
<b>Total</b>	<b>72.2914</b>	<b>1.8780</b>	<b>2.4181</b>	<b>3.9600e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0244</b>		<b>375.8749</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0269	0.0177	0.2035	6.2000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		62.0742	62.0742	1.7100e-003		62.1169
<b>Total</b>	<b>0.0269</b>	<b>0.0177</b>	<b>0.2035</b>	<b>6.2000e-004</b>	<b>0.0671</b>	<b>5.2000e-004</b>	<b>0.0676</b>	<b>0.0178</b>	<b>4.8000e-004</b>	<b>0.0183</b>		<b>62.0742</b>	<b>62.0742</b>	<b>1.7100e-003</b>		<b>62.1169</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.5 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.0186					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
<b>Total</b>	<b>72.2914</b>	<b>1.8780</b>	<b>2.4181</b>	<b>3.9600e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0244</b>		<b>375.8749</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0269	0.0177	0.2035	6.2000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		62.0742	62.0742	1.7100e-003		62.1169
<b>Total</b>	<b>0.0269</b>	<b>0.0177</b>	<b>0.2035</b>	<b>6.2000e-004</b>	<b>0.0671</b>	<b>5.2000e-004</b>	<b>0.0676</b>	<b>0.0178</b>	<b>4.8000e-004</b>	<b>0.0183</b>		<b>62.0742</b>	<b>62.0742</b>	<b>1.7100e-003</b>		<b>62.1169</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6554	6.2368	7.5991	0.0119		0.3179	0.3179		0.2948	0.2948		1,111.6333	1,111.6333	0.3373		1,120.0668
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6554</b>	<b>6.2368</b>	<b>7.5991</b>	<b>0.0119</b>		<b>0.3179</b>	<b>0.3179</b>		<b>0.2948</b>	<b>0.2948</b>		<b>1,111.6333</b>	<b>1,111.6333</b>	<b>0.3373</b>		<b>1,120.0668</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0582	0.0383	0.4409	1.3500e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.4940	134.4940	3.7000e-003		134.5866
<b>Total</b>	<b>0.0582</b>	<b>0.0383</b>	<b>0.4409</b>	<b>1.3500e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>		<b>134.4940</b>	<b>134.4940</b>	<b>3.7000e-003</b>		<b>134.5866</b>

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6554	6.2368	7.5991	0.0119		0.3179	0.3179		0.2948	0.2948	0.0000	1,111.6333	1,111.6333	0.3373		1,120.0668
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6554</b>	<b>6.2368</b>	<b>7.5991</b>	<b>0.0119</b>		<b>0.3179</b>	<b>0.3179</b>		<b>0.2948</b>	<b>0.2948</b>	<b>0.0000</b>	<b>1,111.6333</b>	<b>1,111.6333</b>	<b>0.3373</b>		<b>1,120.0668</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0582	0.0383	0.4409	1.3500e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.4940	134.4940	3.7000e-003		134.5866
<b>Total</b>	<b>0.0582</b>	<b>0.0383</b>	<b>0.4409</b>	<b>1.3500e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>		<b>134.4940</b>	<b>134.4940</b>	<b>3.7000e-003</b>		<b>134.5866</b>

**4.0 Operational Detail - Mobile**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9681	5.4266	24.8898	0.0656	6.1689	0.0680	6.2369	1.6474	0.0638	1.7112		6,791.8615	6,791.8615	0.4888		6,804.0821
Unmitigated	2.9681	5.4266	24.8898	0.0656	6.1689	0.0680	6.2369	1.6474	0.0638	1.7112		6,791.8615	6,791.8615	0.4888		6,804.0821

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,204.00	1,179.36	856.80	2,746,194	2,746,194
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	14.07	17.53	8.02	29,635	29,635
Total	1,218.07	1,196.89	864.82	2,775,829	2,775,829

**4.3 Trip Type Information**

## 1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Hotel	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Regional Shopping Center	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**



## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
NaturalGas Mitigated	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529
NaturalGas Unmitigated	0.0788	0.7160	0.6014	4.3000e-003		0.0544	0.0544		0.0544	0.0544		859.1474	859.1474	0.0165	0.0158	864.2529

## 5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7301.05	0.0787	0.7158	0.6013	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.9476	858.9476	0.0165	0.0158	864.0519
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.69841	2.0000e-005	1.7000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.1998	0.1998	0.0000	0.0000	0.2010
<b>Total</b>		<b>0.0788</b>	<b>0.7160</b>	<b>0.6014</b>	<b>4.2900e-003</b>		<b>0.0544</b>	<b>0.0544</b>		<b>0.0544</b>	<b>0.0544</b>		<b>859.1474</b>	<b>859.1474</b>	<b>0.0165</b>	<b>0.0158</b>	<b>864.2529</b>

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.30105	0.0787	0.7158	0.6013	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.9476	858.9476	0.0165	0.0158	864.0519
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.00169841	2.0000e-005	1.7000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.1998	0.1998	0.0000	0.0000	0.2010
<b>Total</b>		<b>0.0788</b>	<b>0.7160</b>	<b>0.6014</b>	<b>4.2900e-003</b>		<b>0.0544</b>	<b>0.0544</b>		<b>0.0544</b>	<b>0.0544</b>		<b>859.1474</b>	<b>859.1474</b>	<b>0.0165</b>	<b>0.0158</b>	<b>864.2529</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## 1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
Mitigated	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
Unmitigated	1.3833	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
<b>Total</b>	<b>1.3833</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0457</b>	<b>0.0457</b>	<b>1.2000e-004</b>		<b>0.0487</b>

1130 South Hope Street (Unmitigated) - Los Angeles-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/day										lb/day					
Architectural Coating	0.1573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0487
<b>Total</b>	<b>1.3833</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0457</b>	<b>0.0457</b>	<b>1.2000e-004</b>		<b>0.0487</b>

**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****Fire Pumps and Emergency Generators**

1130 South Hope Street (Unmitigated) - Los Angeles-South Coast County, Winter

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## **APPENDIX 3.3:**

### **2017 EMFAC FACTORS**

EMFAC2017 Derived CalEEMod Annual Emission Rates: Year 2021<sup>1,2</sup>

Season	Pollutant	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
Annual	CH4_IDLEX	0	0	0	0	0.005611	0.003944047	0.004423587	0.026918673	0.0084752	0	0	0.0739897	0
Annual	CH4_RUNEX	0.0030242	0.0077267	0.0049734	0.0065352	0.0056775	0.003945704	0.004601906	0.082507546	0.0069634	5.8456002	0.3807819	0.0070599	0.0031209
Annual	CH4_STREX	0.0497119	0.070705	0.0673164	0.080691	0.0160712	0.011225406	0.012461198	5.38411E-07	0.0218218	0.0111859	0.2344659	0.006777	0
Annual	CO_IDLEX	0	0	0	0	0.1908366	0.152955314	0.394384048	6.226916634	0.5952011	0	0	2.9896242	0
Annual	CO_RUNEX	0.7201367	1.4527755	1.0219519	1.2167364	0.6473021	0.435243788	0.472350966	0.584717248	0.7823623	45.423026	19.105304	0.5993668	0.2690429
Annual	CO_STREX	2.1005975	2.2700339	2.6488862	3.0984851	1.1384467	0.770025562	1.435215411	0.009539162	2.3937088	0.7143595	8.5172687	0.9319113	0
Annual	CO2_NBIO_IDLEX	0	0	0	0	0	8.8754808	13.40193055	67.31859576	1172.5017	94.214715	0	0	354.62582
Annual	CO2_NBIO_RUNEX	272.47447	320.55496	343.41596	421.49481	667.04059	668.3742012	1070.872809	1482.703518	1391.4978	1991.581	223.67565	1100.9725	965.32961
Annual	CO2_NBIO_STREX	53.616905	63.670293	68.728001	83.585595	12.485272	9.648900899	12.16974322	0.090287536	19.244568	8.6084803	59.556617	5.7278912	0
Annual	NOX_IDLEX	0	0	0	0	0.0524484	0.084534621	0.474856688	6.318960426	0.4568364	0	0	3.1431593	0
Annual	NOX_RUNEX	0.040511	0.1201768	0.0856013	0.1130176	0.6271754	0.811152617	1.633735134	3.599432701	1.5748976	0.4697208	1.1316957	4.6496285	3.432833
Annual	NOX_STREX <sup>3</sup>	0.1822069	0.2563963	0.2802614	0.3432342	0.3353256	0.234568425	1.289176771	2.063897191	0.7535135	0.0846513	0.2636683	0.9017689	0
Annual	PM10_IDLEX	0	0	0	0	0.0007495	0.001244273	0.001073214	0.003936807	0.0007892	0	0	0.0039536	0
Annual	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061057896	0.13034	0.0726803	0.01176	0.7448002	0.13034
Annual	PM10_PMTW	0.008	0.008	0.008	0.008	0.0096684	0.010521633	0.012000003	0.035588943	0.012	0.0318756	0.004	0.0106531	0.016
Annual	PM10_RUNEX	0.0018007	0.0027169	0.001911	0.0020878	0.0062844	0.009868432	0.031829818	0.028199781	0.0176188	0.0031836	0.002443	0.0270747	0.0749646
Annual	PM10_STREX	0.0018422	0.0026306	0.0018911	0.0020605	0.0002851	0.00016317	0.00013806	1.61301E-06	0.0001973	4.641E-05	0.0032943	5.518E-05	0
Annual	PM25_IDLEX	0	0	0	0	0.0007171	0.001190446	0.001026787	0.003766502	0.0007551	0	0	0.0037825	0
Annual	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.02616767	0.05586	0.0311487	0.00504	0.3192001	0.05586
Annual	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024171	0.002630408	0.003000001	0.008897236	0.003	0.0079689	0.001	0.0026633	0.004
Annual	PM25_RUNEX	0.001659	0.0025003	0.0017588	0.0019247	0.0059828	0.00942442	0.030446233	0.02697983	0.0168419	0.0030428	0.0022829	0.0258893	0.0717216
Annual	PM25_STREX	0.0016939	0.002419	0.0017389	0.001895	0.0002621	0.000150029	0.000126941	1.4831E-06	0.0001814	4.267E-05	0.0031005	5.074E-05	0
Annual	ROG_DIURN	0.0524196	0.1274576	0.0730385	0.0841768	0.0025541	0.001576501	0.000667636	7.19251E-06	0.0018391	0.0006646	1.0817626	0.0009894	0
Annual	ROG_HTSK	0.1008153	0.1993409	0.1233314	0.1409304	0.0805416	0.054372967	0.027255384	0.000276525	0.022113	0.0084735	0.6546153	0.0085882	0
Annual	ROG_IDLEX	0	0	0	0	0.0223008	0.017986622	0.022226278	0.453910027	0.0559077	0	0	0.3437606	0
Annual	ROG_RESTL	0.0497979	0.1075015	0.0740805	0.0890787	0.0015611	0.009978461	0.00043014	5.06836E-06	0.0009412	0.0004915	0.6628665	0.0005274	0
Annual	ROG_RUNEX	0.0119411	0.0343685	0.0206414	0.0283093	0.0486117	0.049818031	0.062555505	0.082265543	0.0618348	0.0851611	2.611964	0.0921701	0.0671904
Annual	ROG_RUNLS	0.2110443	0.6943408	0.4055255	0.4291112	0.5526459	0.353514692	0.144873584	0.001508325	0.2644634	0.053654	1.9833855	0.0553234	0
Annual	ROG_STREX	0.2237273	0.354093	0.3137551	0.3987574	0.0793062	0.055359584	0.066469247	2.83959E-06	0.1148994	0.0484924	1.8128246	0.0391092	0
Annual	SO2_IDLEX	0	0	0	0	8.627E-05	0.000128552	0.000639803	0.010902219	0.0008963	0	0	0.0033855	0
Annual	SO2_RUNEX	0.0026782	0.0031516	0.0033756	0.0041408	0.0065152	0.006470764	0.010238121	0.013511568	0.0134578	0.0014406	0.0022135	0.0105323	0.0091258
Annual	SO2_STREX	0.0005272	0.000626	0.0006757	0.0008218	0.0001235	9.54837E-05	0.000120429	8.93468E-07	0.0001904	8.519E-05	0.0005894	5.668E-05	0
Annual	TOG_DIURN	0.0524353	0.1274958	0.0730604	0.084202	0.0025541	0.001576501	0.000667636	7.19251E-06	0.0018391	0.0006646	1.0817626	0.0009894	0
Annual	TOG_HTSK	0.1008455	0.1994007	0.1233684	0.1409727	0.0805416	0.054372967	0.027255384	0.000276525	0.022113	0.0084735	0.6546153	0.0085882	0
Annual	TOG_IDLEX	0	0	0	0	0.0315919	0.02470222	0.030324437	0.522617236	0.0723106	0	0	0.4946086	0
Annual	TOG_RESTL	0.0498128	0.1075337	0.0741028	0.0891054	0.0015611	0.009978461	0.00043014	5.06836E-06	0.0009412	0.0004915	0.6628665	0.0005274	0
Annual	TOG_RUNEX	0.0173632	0.050113	0.0300646	0.0410733	0.0621958	0.059663373	0.074624561	0.173011316	0.0784927	5.9677449	3.2456821	0.1106291	0.0764918
Annual	TOG_RUNLS	0.2111077	0.6945491	0.4056472	0.42924	0.5526459	0.353514692	0.144873584	0.001508325	0.2644634	0.053654	1.9833855	0.0553234	0
Annual	TOG_STREX	0.24505	0.3878403	0.343659	0.4367569	0.0868303	0.060611776	0.072775458	3.109E-06	0.1258004	0.0530931	1.9732172	0.0428196	0
Summer	CH4_IDLEX	0	0	0	0	0.0056229	0.00395256	0.004192784	0.028040022	0.0085344	0	0	0.0740425	0
Summer	CH4_RUNEX	0.0032282	0.0081768	0.0052909	0.0069305	0.0057928	0.003991452	0.004654268	0.082509545	0.0070846	5.8456102	0.3737796	0.0071402	0.0031209
Summer	CH4_STREX	0.0447523	0.0632755	0.0605349	0.072483	0.0155239	0.010843845	0.012009655	5.15794E-07	0.0209867	0.0103998	0.2095508	0.0060473	0
Summer	CO_IDLEX	0	0	0	0	0.1908366	0.152955314	0.322787613	6.089397874	0.5813111	0	0	2.9531182	0
Summer	CO_RUNEX	0.7893131	1.5751382	1.1154161	1.3215976	0.6592739	0.439997575	0.478223072	0.585393392	0.796	45.423537	18.368661	0.6078768	0.2690429
Summer	CO_STREX	1.7928853	1.9324236	2.2586417	2.6333531	1.0881875	0.736097884	1.363194297	0.009060559	2.2639575	0.6288227	7.7565371	0.7604063	0
Summer	CO2_NBIO_IDLEX	0	0	0	0	8.8754808	13.40193055	68.13890073	1168.968972	94.080565	0	0	362.28625	0
Summer	CO2_NBIO_RUNEX	284.40184	332.71116	355.31365	433.95807	667.06223	668.3826287	1070.883191	1482.704643	1391.522	1991.5819	222.28274	1100.9877	965.32961
Summer	CO2_NBIO_STREX	53.045587	62.999293	67.992098	82.697902	12.393178	9.588331089	12.0468222	0.089528539	19.023454	8.4608426	57.673194	5.4418287	0
Summer	NOX_IDLEX	0	0	0	0	0.0524484	0.084534621	0.475224904	6.133659065	0.4469892	0	0	3.2081557	0
Summer	NOX_RUNEX	0.0356155	0.1049688	0.0750238	0.0989825	0.5874473	0.76465199	1.538039986	3.406107222	1.475312	0.4672408	0.988815	4.3860802	3.2425213
Summer	NOX_STREX <sup>3</sup>	0.1687012	0.2374487	0.2595048	0.3178035	0.3212826	0.27457539	1.284167877	2.063840585	0.7432406	0.0809543	0.2499432	0.898039	0
Summer	PM10_IDLEX	0	0	0	0	0.0007495	0.001244273	0.000907272	0.003441783	0.0006707	0	0	0.0033404	0
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061057896	0.13034	0.0726803	0.01176	0.7448002	0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0096684	0.010521633	0.012000003	0.035588943	0.012	0.0318756	0.004	0.0106531	0.016
Summer	PM10_RUNEX	0.0018007	0.0027169	0.001911	0.0020878	0.0062844	0.009868432	0.031829818	0.028199781	0.0176188	0.0031836	0.002443	0.0270747	0.0749646
Summer	PM10_STREX	0.0018422	0.0026306	0.0018911	0.0020605	0.0002851	0.00016317	0.00013806	1.61301E-06	0.0001973	4.641E-05	0.0032943	5.518E-05	0
Summer	PM25_IDLEX	0	0	0	0	0.0007171	0.001190446	0.000868024	0.003292893	0.0006416	0	0	0.0031959	0
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.02616767	0.05586	0.0311487	0.00504	0.3192001	0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024171	0.002630408	0.003000001	0.008897236	0.003	0.0079689	0.001	0.0026633	0.004
Summer	PM25_RUNEX	0.001659	0.0025003	0.0017588	0.0019247	0.0059828	0.00942442	0.030446233	0.02697983	0.0168419	0.0030428	0.0022829	0.0258893	0.0717216
Summer	PM25_STREX	0.0016939	0.002419	0.0017389	0.001895	0.0002621	0.000150029	0.000126941	1.4831E-06	0.0001814	4.267E-05	0.0031005	5.074E-05	0
Summer	ROG_DIURN	0.0805724	0.1958209	0.1122646	0.129403	0.0037597	0.00232092	0.000992629	1.12824E-05	0.0026504	0.000962	1.7192635	0.0014292	0
Summer	ROG_HTSK	0.1039251	0.20733	0.1273075	0.1449651	0.0824794	0.056058952	0.028106319	0.000282155	0.0225824	0.0087333	0.7111003	0.0087249	0
Summer	ROG_IDLEX	0	0	0	0	0.0223008	0.017986622	0.021299207	0.474766627	0.0568223	0	0	0.3435773	0
Summer	ROG_RESTL	0.0689402	0.1497526	0.1020832	0.1227958	0.0021601	0.00135455	0.000604419	7.70525E-06	0.0013065				

Winter	CH4_IDLEX	0	0	0	0	0.0056086	0.003942317	0.004755467	0.01973037	0.0084128	0	0	0.0739888	0
Winter	CH4_RUNEX	0.0029599	0.0075825	0.0048731	0.0064066	0.005646	0.00393336	0.004585367	0.003636202	0.0069288	5.8455978	0.3823353	0.0070355	0.0031209
Winter	CH4_STREX	0.0508347	0.0723885	0.0688533	0.0825503	0.0161899	0.011308117	0.012544775	5.43738E-07	0.0220235	0.0113635	0.239769	0.0069446	0
Winter	CO_IDLEX	0	0	0	0	0.1908366	0.152955314	0.494420072	6.3197888	0.6143825	0	0	3.0400371	0
Winter	CO_RUNEX	0.6947585	1.4074551	0.9875842	1.1774753	0.6440847	0.433960268	0.470667137	0.378232006	0.7784512	45.422898	19.251502	0.5967545	0.2690429
Winter	CO_STREX	2.1718736	2.3482348	2.7398535	3.206882	1.1475152	0.776227159	1.449467168	0.009634159	2.4206576	0.7314087	8.6646146	0.9644153	0
Winter	CO2_NBIO_IDLEX	0	0	0	0	8.8754808	13.40193055	66.17894992	1158.962553	94.39997	0	0	344.04713	0
Winter	CO2_NBIO_RUNEX	268.0658	316.06139	339.01831	416.88694	667.03476	668.3719215	1070.869828	1430.090478	1391.4909	1991.5807	223.9573	1100.9678	965.32961
Winter	CO2_NBIO_STREX	53.748702	63.82472	68.898619	83.79125	12.499045	9.660195855	12.19435122	0.0904382	19.291004	8.6382336	59.93538	5.7826736	0
Winter	NOX_IDLEX	0	0	0	0	0.0524484	0.084534621	0.474347261	6.465701188	0.470435	0	0	3.0534024	0
Winter	NOX_RUNEX	0.0392918	0.1167803	0.08308	0.1097293	0.61562	0.796457815	1.602740334	3.488980303	1.5453819	0.4691927	1.1050922	4.5685046	3.368534
Winter	NOX_STREX <sup>3</sup>	0.1852096	0.2606338	0.2848824	0.348904	0.3385109	0.23679626	1.290368034	2.063910648	0.7559833	0.0855041	0.2669026	0.9028594	0
Winter	PM10_IDLEX	0	0	0	0	0.0007495	0.001244273	0.00130237	0.004370771	0.0009529	0	0	0.0048003	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060105422	0.13034	0.0726803	0.01176	0.7448002	0.13034
Winter	PM10_PMTW	0.008	0.008	0.008	0.008	0.0096684	0.010521633	0.012000003	0.035033564	0.012	0.0318756	0.004	0.0106531	0.016
Winter	PM10_RUNEX	0.0018007	0.0027169	0.001911	0.0020878	0.0062844	0.009868432	0.031829818	0.028096242	0.0176188	0.0031836	0.002443	0.0270747	0.0749646
Winter	PM10_STREX	0.0018422	0.0026306	0.0018911	0.0020605	0.0002851	0.00016317	0.00013806	1.61301E-06	0.0001973	4.641E-05	0.0032943	5.518E-05	0
Winter	PM25_IDLEX	0	0	0	0	0.0007171	0.001190446	0.00124603	0.004181693	0.0009117	0	0	0.0045926	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025759466	0.05586	0.0311487	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024171	0.002630408	0.003000001	0.008758391	0.003	0.0079689	0.001	0.0026633	0.004
Winter	PM25_RUNEX	0.001659	0.0025003	0.0017588	0.0019247	0.0059828	0.00942442	0.030446233	0.02688077	0.0168419	0.0030428	0.0022829	0.0258893	0.0717216
Winter	PM25_STREX	0.0016939	0.002419	0.0017389	0.001895	0.0002621	0.000150029	0.000126941	1.4831E-06	0.0001814	4.267E-05	0.0031005	5.074E-05	0
Winter	ROG_DIURN	0.0510541	0.1275302	0.0699814	0.0800091	0.0026897	0.001633622	0.000691481	7.52303E-06	0.0019222	0.000648	1.1757383	0.0010033	0
Winter	ROG_HTSK	0.1086963	0.2237106	0.1330533	0.1505647	0.0923885	0.061346922	0.029503806	0.000314939	0.0234751	0.0090358	0.8418938	0.0090227	0
Winter	ROG_IDLEX	0	0	0	0	0.0223008	0.017986622	0.023524408	0.424789457	0.0546447	0	0	0.3440137	0
Winter	ROG_RESTL	0.0475461	0.1027519	0.0706838	0.0851103	0.0015404	0.0009504	0.000420717	5.06328E-06	0.0009238	0.0004662	0.6353973	0.0005063	0
Winter	ROG_RUNEX	0.0117058	0.0337488	0.0202481	0.0277916	0.0484416	0.049761171	0.062483287	0.076852175	0.0616657	0.0851541	2.6258813	0.0920455	0.0671904
Winter	ROG_RUNLS	0.2402572	0.8209764	0.475354	0.4989969	0.5986148	0.385180909	0.159150925	0.001601131	0.2833056	0.0654431	2.2829142	0.0680686	0
Winter	ROG_STREX	0.2291274	0.3629262	0.3213604	0.4085149	0.0799314	0.05579603	0.067070422	2.86528E-06	0.1160075	0.0493055	1.8565024	0.0400807	0
Winter	SO2_IDLEX	0	0	0	0	8.627E-05	0.000128552	0.000628811	0.010949304	0.000898	0	0	0.0032856	0
Winter	SO2_RUNEX	0.0026349	0.0031074	0.0033324	0.0040955	0.0065151	0.006470741	0.010238092	0.013511565	0.0134578	0.0014406	0.0022162	0.0105322	0.0091258
Winter	SO2_STREX	0.0005285	0.0006275	0.0006774	0.0008238	0.0001237	9.55955E-05	0.000120673	8.94959E-07	0.0001909	8.548E-05	0.0005931	5.722E-05	0
Winter	TOG_DIURN	0.0510694	0.1275685	0.0700023	0.0800331	0.0026897	0.001633622	0.000691481	7.52303E-06	0.0019222	0.000648	1.1757383	0.0010033	0
Winter	TOG_HTSK	0.1087289	0.2237778	0.1330932	0.1506098	0.0923885	0.061346922	0.029503806	0.000314939	0.0234751	0.0090358	0.8418938	0.0090227	0
Winter	TOG_IDLEX	0	0	0	0	0.0315919	0.02470222	0.03222404	0.483590462	0.0708727	0	0	0.4948967	0
Winter	TOG_RESTL	0.0475604	0.1027827	0.0707051	0.0851358	0.0015404	0.0009504	0.000420717	5.06328E-06	0.0009238	0.0004662	0.6353973	0.0005063	0
Winter	TOG_RUNEX	0.0170198	0.0492087	0.0294906	0.0403188	0.0619477	0.059580403	0.074519181	0.087632854	0.078246	5.9677347	3.2624715	0.1104474	0.0764918
Winter	TOG_RUNLS	0.2403293	0.8212227	0.4754967	0.4991466	0.5986148	0.385180909	0.159150925	0.001601131	0.2833056	0.0654431	2.2829142	0.0680686	0
Winter	TOG_STREX	0.2509647	0.3975153	0.3519891	0.4474441	0.0875148	0.061089629	0.073433669	3.13712E-06	0.1270137	0.0539833	2.0207475	0.0438833	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 Los Angeles (SC) 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<sub>x</sub> STREX emission rates are utilized.