

AIR QUALITY AND GREENHOUSE GAS IMPACT ANALYSIS

The Parks in LA Project
City of Los Angeles
Project # 2022-034-01

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1.0 INTRODUCTION

The purpose of this Air Quality and Greenhouse Gas Impact Analysis is to identify, describe, and evaluate the significance of potential air quality impacts resulting from the construction and operation of a proposed mixed-use project as an infill development in the City of Los Angeles.

2.0 PROPOSED DEVELOPMENT

The proposed project would be located at 3433 West 8th Street, as shown in **Figure 1, Vicinity Map**, in the Wilshire Community Plan Area of the City of Los Angeles. The proposed project would redevelop an approximately 1.45-acre infill site by constructing an 8-story mixed-use structure providing a total of 251 residential apartment units, including 18 live/work units, with 18,000 square-feet of commercial space, and a total of 22,500 square feet of office space. The proposed project would incorporate two subterranean parking levels, which together with ground level parking spaces would provide a total of 283 spaces for vehicle parking onsite. A total of 165 long-term bicycle parking spaces and 39 short-term bicycle parking spaces would be provided on the ground floor of the project. The project site is located within a Transit Oriented Community (Tier 3)¹ pursuant to Los Angeles Municipal Code 12.22 A.31, TOC) Affordable Housing Incentive Program. Public transit facilities in the project site vicinity include two subway stations within approximately 0.4 miles walking distance, and several bus stops serviced by a variety of local and regional carriers. The nearest bus stop is located within approximately 65 feet of the project site.

Construction of the project would require demolition of approximately 22,000 square feet of existing buildings, as well as removal of surface parking lots. Approximately 1,073 tons of debris would be removed for site preparation. Grading and excavation for the subterranean parking levels would require export of approximately 58,300 cubic yards of soil, which would be hauled to Azusa Land Reclamation, located at 1211 West Gladstone in Azusa, CA, approximately 27 miles east of the project site.

3.0 AIR QUALITY SETTING

The City of Los Angeles is located within the South Coast Air Basin (air basin). The air basin is bounded by the Pacific Ocean to the west, the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and San Diego County to the south.

In addition to being a metropolitan area with a high level of human activity, the topography and climate of Southern California combine to produce unhealthful air quality in the air basin. Low temperature inversions, light winds, shallow vertical mixing, and extensive sunlight, in combination with topographical features such as adjacent mountain ranges that hinder dispersion of air pollutants, can result in degraded air quality within the air basin.

Ambient Air Quality Standards

National and State ambient air quality standards (AAQS),² shown in **Table 1, Ambient Air Quality Standards**, are the air quality levels that are considered safe, with an adequate margin of safety, to protect

¹ City of Los Angeles, Department of City Planning, Zoning Information and Map Access System (ZIMAS), Available at <http://zimas.lacity.org/>, Accessed on July 16, 2022.

² California Air Resources Board. California and National Ambient Air Quality Standards. Available at: https://www.arb.ca.gov/research/aaqs/aaqs2.pdf?_ga=2.111850244.1417595818.1550763932-1724706578.1550763932. Accessed on February 21, 2019.

Table 1
Ambient Air Quality Standards

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

See footnotes on next page

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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°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 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 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 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.

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the public health and welfare of "sensitive receptors," which include the elderly, young children, the acutely and chronically ill (e.g., those with cardio-respiratory disease, including asthma), and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed. Recent research has shown, however, that chronic exposure to ozone (O₃), the primary ingredient in photochemical smog, may lead to adverse respiratory health, even at concentrations close to the ambient standard. Sources and health effects of various pollutants are shown in **Table 2, Health Effects of Major Criteria Pollutants**.

Table 2
Health Effects of Major Criteria Pollutants

Pollutants	Health Effects
Particulate Matter - PM-2.5 (less than 2.5 microns in diameter)	<ul style="list-style-type: none"> Premature death Hospitalization for worsening of cardiovascular disease Hospitalization for respiratory disease Asthma-related emergency room visits Increased symptoms, increased inhaler usage
Particulate Matter - PM-10 (less than 10 microns in diameter)	<ul style="list-style-type: none"> Premature death & hospitalization, primarily for worsening of respiratory disease Reduced visibility and material soiling
Ozone (O₃)	<ul style="list-style-type: none"> Respiratory symptoms Worsening of lung disease leading to premature death Damage to lung tissue Crop, forest, and ecosystem damage Damage to a variety of materials, including rubber, plastics, fabrics, paint, and metals
Carbon Monoxide (CO)	<ul style="list-style-type: none"> Chest pain in patients with heart disease Headache Light-headedness Reduced mental alertness
Nitrogen Dioxide (NO₂)	<ul style="list-style-type: none"> Lung irritation Enhanced allergic responses
Source: California Air Resources Board, Common Air Pollutants, accessed March 3, 2022, at https://www.arb.ca.gov/research/health/fs/fs1/fs1.htm .	

Baseline Air Quality

Existing levels of ambient air quality and historical trends and projections in the project area are documented from measurements made by the South Coast Air Quality Management District (SCAQMD), which is the agency that is responsible for regulating stationary sources of emissions in the air basin. SCAQMD's central Los Angeles (downtown) air monitoring station (Station 087) is the nearest air monitoring station to the project site; therefore, monitoring data recorded at that station for regional air pollutants, such as O₃, carbon monoxide (CO), nitrogen oxides (NO_x), and 10-micron diameter or less particulate matter (PM-10 and PM-2.5) are most representative of the air quality in the project area. **Table 3, Project Area Air Quality Monitoring Summary 2016-2020**, provides data from this monitoring station for the previous five years (2016-2020) for which this data is available from the SCAQMD website.³ The air quality data and trends in the project vicinity, as documented in Table 3, are summarized below:

³ South Coast Air Quality Management District, Historical Data By Year, Available at <http://yourstory.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year>. Accessed February 21, 2022.

1. From 2016-2020, O₃ levels exceeded the 1-hour State standard 24 days, the 8-hour State standard 46 days, and the Federal 8-hour standard 27 days.
2. PM-10 levels exceeded the State 24-hour standard 9.0 percent of all days monitored from 2016-2020. The National 24-hour PM-10 standard was not exceeded in the same period.
3. PM-2.5 levels exceeded the current National 24-hour standard approximately 1.0 percent of all days monitored from 2016-2020.
4. CO and NO_x levels have not exceeded National or State standards in the previous five years of monitoring data (2016-2020).

Table 3
Project Area Air Quality Monitoring Summary 2016-2020

Pollutant/Standard	2016	2017	2018	2019	2020
Ozone					
<i>Number of Days Standards Exceeded</i>					
1-Hour > 0.09 ppm (S)	2	6	2	0	14
8-Hour > 0.07 ppm (S)	4	14	4	2	22
8-Hour > 0.075 ppm (F)	1	9	0	1	16
<i>Maximum Observed Concentration</i>					
Max. 1-Hour Conc. (ppm)	0.103	0.116	0.098	0.085	0.185
Max. 8-Hour Conc. (ppm)	0.078	0.086	0.073	0.080	0.118
Carbon Monoxide					
<i>Number of Days Standards Exceeded</i>					
8-Hour > 9.0 ppm (S, F)	0	0	0	0	0
<i>Maximum Observed Concentration</i>					
Max 8-Hour Conc. (ppm)	1.4	1.9	1.7	1.6	1.5
Nitrogen Dioxide					
<i>Number of Days Standards Exceeded</i>					
1-Hour > 0.18 ppm (S)	0	0	0	0	0
<i>Maximum Observed Concentration</i>					
Max. 1-Hour Conc. (ppm)	0.065	0.081	0.070	0.070	0.062
Inhalable Particulates (PM-10)					
<i>Number of Days Standards Exceeded/Days Monitored</i>					
24-Hour > 50 µg/m ³ (S)	18/277	41/340	31/363	3/9	24/337
24-Hour > 150 µg/m ³ (F)	0/277	0/340	0/363	0/9	0/337
<i>Maximum Observed Concentration</i>					
Max. 24-Hr. Conc. (µg/m ³)	67	96	81	62	77
Ultra-Fine Particulates (PM-2.5)					
<i>Number of Days Standards Exceeded/Days Monitored</i>					
24-Hour > 35 µg/m ³ (F)	2/357	3/358	3/344	1/360	2/353
<i>Maximum Observed Concentration</i>					
Max. 24-Hr. Conc. (µg/m ³)	44.4	49.2	43.8	43.5	47.3
Source: SCAQMD, Historical Data by Year, Air Quality Data Tables downloaded from: https://www.aqmd.gov/home/air-quality/historical-air-quality-data/historical-data-by-year .					

Air Quality Planning

In the air basin, the agencies designated to develop the regional Air Quality Management Plan (AQMP) are the SCAQMD and the Southern California Association of Governments (SCAG). The 2016 Air Quality Management Plan (AQMP) is a regional blueprint for achieving air quality standards and healthful air, and

it represents a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures. According to the AQMP, the principal contributor to air quality challenges in the air basin is mobile source emissions.

Primary Pollutants

Primary pollutants are those that are emitted in their already unhealthful form. CO is an example of such a pollutant, which can have effects at a very localized level, near an individual source of emissions or a collection of sources, such as a crowded intersection or parking lot. Many particulates, especially fugitive dust emissions, are also primary pollutants. Because of the non-attainment status of the SCAB for PM-10, SCAQMD Rule 403 requires construction projects to implement an aggressive dust control program.

Secondary Pollutants

Secondary pollutants are those that transform over time from more benign components directly emitted from a source(s) to a more unhealthful contaminant. O₃ is an example of a secondary pollutant, which is created through chemical reactions involving primary precursors (reactive organic gases, or ROG, and NO_x) and sunlight.

Emissions Forecasts

The most current regional emissions forecast for O₃ precursors (ROG and NO_x) and for CO and PM are shown in **Table 4, South Coast Air Basin Emissions Forecasts**. Substantial reductions in emissions of ROG, NO_x and CO are forecast to continue throughout the next several decades. Emissions of PM-10 and PM-2.5 are forecast to slightly increase unless new particulate control programs are implemented.

Table 4
South Coast Air Basin Emissions Forecasts (Emissions in tons/day)

Pollutant	2025	2030	2035
Nitrogen Oxide (NO _x)	289	266	257
Volatile Organic Compounds (VOCs)*	393	393	391
PM-10	165	170	172
PM-2.5	68	70	71
Source: California Air Resources Board, Almanac 2013, Chapter 4: Regional Trends and Forecasts, Table 4-1 * For purposes of this analysis, VOC and ROG (Reactive Organic Gas) are used interchangeably since ROG represents approximately 99.9 percent of VOC.			

4.0 AIR QUALITY IMPACTS

Significance Criteria

State CEQA Guidelines

Air quality impacts of a project are considered significant if they cause clean air standards to be violated where they are currently met, or if they substantially contribute to an existing violation of standards. Substantial emissions of air contaminants for which there is no safe exposure, or nuisance emissions such as dust or odors, that are generated by a project, would also be considered significant impacts.

As set forth in Appendix G, Environmental Checklist, of the State CEQA Guidelines, a project could have a potentially significant impact if it would:

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

SCAQMD Emissions Thresholds

While conformity with adopted plans, forecasts and programs relative to population, housing, employment and land use designations could indicate conformance with the current AQMP, the air quality impact significance for the proposed project has been analyzed on a project-specific basis to determine consistency with SCAQMD project impact evaluation thresholds. As the amount of a secondary pollutant that may result from a project cannot be quantified by direct measurement of its emissions from a source, the SCAQMD has designated significant emissions levels of precursor components as surrogates for evaluating whether a project's emissions could result in significant regional air quality impacts associated with secondary pollutants. Projects with daily emissions that exceed any of the following emission thresholds shown in **Table 5, SCAQMD CEQA Daily Emissions Thresholds**, are recommended by the SCAQMD to be considered significant under CEQA.

Table 5
SCAQMD CEQA Daily Emissions Thresholds

Pollutant	Construction	Operations
ROG	75	55
NO _x	100	55
CO	550	550
PM-10	150	150
PM-2.5	55	55
SO _x	150	150
Source: SCAQMD CEQA Air Quality Significance Thresholds, Revision April 2019.		

Existing Land Use Emissions

The project site is currently occupied by commercial uses, parking lots, and a single-family structure that would be removed by the project. These existing commercial and residential uses have been considered in determining the project's net increase in regional emissions as evaluated below.

Sensitive Receptors

Air quality impacts are analyzed relative to those persons with the greatest sensitivity to air pollution exposure. Such persons are called "sensitive receptors." Sensitive receptors include the elderly, young children, the acutely and chronically ill (e.g., those with cardio-respiratory disease, including asthma), and persons engaged in strenuous work or exercise. For this project, nearby residences are considered to be sensitive uses, because they may be occupied for extended periods, and residents may be outdoors when exposure is highest.

Construction Emissions Impacts

Criteria Pollutants

Dust is typically the primary concern during the construction of projects that would involve land clearing and grading. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions." Emission rates vary as a function of many parameters (including soil silt, soil moisture, wind speed, area disturbed, number of vehicles, and depth of disturbance or excavation).

The California Emissions Estimator Model (CalEEMod) is a Statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant emissions associated with both construction and operations from a variety of land use projects. The model quantifies direct emissions from construction and operation activities (including vehicle use), as well as indirect emissions, such as from energy use, solid waste disposal, vegetation planting and/or removal, and water use. The model was developed for the California Air Pollution Officers Association (CAPCOA) in collaboration with the California Air Districts.

The proposed project's estimated construction emissions were modeled using CalEEMod Version 2020.4.0 to identify maximum daily emissions for each pollutant during project construction. The output reports from CalEEMod are included as **Appendix A** to this report. Construction emissions were modeled based on the size of the project site, the volume of demolition material and soil to be disposed of offsite, as well as the proposed building's square footage, number of units, and parking spaces. A conceptual construction equipment fleet list and approximate duration of each construction phase is shown in **Table 6, Conceptual Construction Equipment Fleet**. The project's maximum daily construction emissions as calculated by CalEEMod are listed in **Table 7, Maximum Daily Construction Emissions**.

All grading for construction projects in the City of Los Angeles must comply with the requirements of SCAQMD Rule 403, Fugitive Dust, which requires the implementation of Best Available Control Measures (BACM) for all fugitive dust sources. SCAQMD Rule 403, Control Measure 08-2 states that during earth moving activities, projects are required to "Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction." Therefore, pursuant to SCAQMD Rule 403, the project would be required to implement adequate watering of exposed surfaces during grading.

As seen in Table 7, peak daily construction activity emissions of criteria air pollutants are estimated to be below the SCAQMD thresholds of significance. Therefore, construction period air quality impacts of the project would be less than significant.

Table 6
Conceptual Construction Equipment Fleet

Phase Name and Duration	Equipment
Demolition (20 days)	1 Concrete/Industrial Saw
	1 Rubber-tired Dozer
	1 Excavator
	3 Loader/Backhoes
Site Preparation (7 days)	1 Grader
	1 Loader/Backhoe
	1 Rubber-tired Dozer

Phase Name and Duration	Equipment
Grading (36 days)	1 Grader
	1 Excavator
	1 Rubber tired dozer
	2 Loader/Backhoe
Construction (400 days)	1 Crane
	1 Generator Set
	1 Forklift
	3 Welders
	1 Loader/Backhoe
Paving (10 days)	1 Cement/mortar Mixer
	1 Paver
	1 Roller
	1 Loader/Backhoe
Architectural Coating (30 days)	1 Air Compressor
Source: CORBeL Architects	

Table 7
Maximum Daily Construction Emissions (pounds/day)

	ROG	NO _x	CO	SO ₂	PM-10	PM-2.5
Maximum Daily Construction Emissions	63.4	48.8	22.6	0.2	11.7	5.4
SCAQMD Thresholds	75	100	550	150	150	55
Significant Impact? Yes/No	No	No	No	No	No	No
Source: CalEEMod Version 2020.4.0 output, August 3, 2022. PM-10 and PM-2.5 emission estimates include watering exposed surfaces twice daily for dust suppression to comply with SCAQMD Rule 403 requirements.						

Localized Significance Thresholds Analysis

The SCAQMD has developed analysis parameters to evaluate ambient air quality on a local level in addition to the more regional emissions-based thresholds of significance. These analysis elements are called Localized Significance Thresholds (LSTs). LSTs were developed in response to the SCAQMD Governing Board's Environmental Justice Enhancement Initiative 1-4, and the LST methodology was provisionally adopted in October 2003 and formally approved by SCAQMD's Mobile Source Committee in February 2005. LSTs are only applicable to the following criteria pollutants: NO_x, CO, PM-10, and PM-2.5. LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable Federal or State ambient air quality standard, and they are developed based on the ambient concentrations of that pollutant for each source receptor area and distance to the nearest sensitive receptor.

Use of an LST analysis for a project is optional. For the proposed project, the primary source of possible LST impact would be construction activity, based on the maximum onsite daily emissions estimated by CalEEMod. LSTs are applicable for a sensitive receptor where it is possible that an individual could remain for 24 hours, such as a residence, hospital, or convalescent facility.

SCAQMD's LST screening tables provide thresholds for 25, 50, 100, 200 and 500-meter source-receptor distances. Due to existing residences located within 25 meters of the project boundary, the 25-meter thresholds were considered for this project. LST pollutant screening level concentration data is currently published for 1, 2 and 5-acre sites. For this project, thresholds for a 1-acre site were used. This evaluation

is based on estimated onsite daily construction emissions for the phase and year representing the highest daily emissions. Daily averages would be lower than the reported maximum amounts.

Table 8, Local Significance Thresholds (LST) and Peak Daily Onsite Construction Emissions (pounds/day) shows the relevant thresholds and the estimated peak daily onsite emissions during the construction phases that would generate the highest level of onsite emissions for each pollutant evaluated for LST impacts.⁴ As previously described, the project would be required to implement adequate watering of exposed surfaces during grading to reduce dust emissions to comply with SCAQMD Rule 403, Fugitive Dust. As seen in Table 8, the peak onsite emissions during construction would not exceed the applicable SCAQMD LSTs, and as such, potential LST impacts would be less than significant.

Table 8
Local Significance Thresholds
and Peak Daily Onsite Construction Emissions (pounds/day)

LST 1.0 acre/25 meters Central LA	NO_x	CO	PM-10	PM-2.5
Peak Onsite Daily Emissions	16.0	16.7	3.5	2.1
LST Threshold	74	680	5	3
Significant Impact? Yes/No	No	No	No	No
Source: CalEEMod Version 2020.4.0 output, August 3, 2022. PM-10 and PM-2.5 emission estimates include watering exposed surfaces twice daily for dust suppression to comply with SCAQMD Rule 403 requirements.				

Asbestos and Lead Based Paint

Due to the date of construction of the existing building, it is possible that demolition workers may encounter asbestos containing materials (ACM) and/or lead based paint (LBP). Regulatory requirements for the appropriate testing and appropriate abatement and disposal of ACM or LBP material if present are provided in SCAQMD Rule 1403 and the California Occupational Safety and Health Administration's (Cal/OSHA's) regulations (including, but not limited to, the California Occupational Safety and Health Act and Title 8 of the California Code of Regulations, respectively).

Operational Emissions Impacts

Criteria Pollutants

During operations, the proposed land uses would result in air quality emissions of criteria pollutants from area sources, energy sources, and mobile sources. The SCAQMD thresholds for air quality impacts from operations are shown above in Table 5. As an infill development, the proposed project's operational emissions would be at least somewhat offset by the removal of the existing land use on the project site. Therefore, CalEEMod was used to estimate emissions from the existing uses as well as the proposed uses, to determine the project's net change in regional emissions. The CalEEMod output sheets for the proposed project, as well as the existing conditions are provided in Appendix A. The project's net increase in emissions due to operations of the proposed development would not exceed SCAQMD significance thresholds for criteria pollutants as shown in **Table 9, Maximum Daily Operations Emissions (pounds/day)**. As seen in Table 9, the project's total operational emissions would also be far below SCAQMD thresholds even without credit removal of existing uses on the project site. Therefore, operational impacts of the project would be less than significant.

⁴ Offsite construction emissions, such as export hauling, are not evaluated for local significance at receptors adjacent to the site.

Table 9
Maximum Daily Operations Emissions (pounds/day)

Emissions Sources	ROG	NO_x	CO	SO₂	PM-10	PM-2.5
Proposed Uses						
Area	6.57	0.24	20.72	<0.01	0.11	0.11
Energy	0.07	0.64	0.30	<0.01	0.05	0.05
Mobile	4.44	4.67	43.77	0.10	10.61	2.90
Total	11.08	5.55	64.80	0.10	10.78	3.04
Existing Uses						
Area	0.53	<0.01	0.08	0.00	<0.01	<0.01
Energy	<0.01	0.02	0.01	<0.01	<0.01	<0.01
Mobile	0.98	1.07	8.83	0.02	1.76	0.48
Total	1.52	1.09	8.92	0.02	1.77	0.48
Net Increase	9.56	4.46	55.88	0.08	9.01	2.56
SCAQMD Thresholds	55	55	550	150	150	55
Significant Impact? Y/N	No	No	No	No	No	No
Source: Proposed- CalEEMod Version 2020.4.0 output, August 3, 2022; Existing- CalEEMod Version 2020.4.0 output, March 2, 2022. Totals may not add due to rounding.						

Toxic Air Contaminants

Exhaust particulates emitted from diesel powered equipment contains carcinogenic compounds, or toxic air contaminants (TACs). As residential projects do not generate a substantial quantity of diesel truck trips during operations, any measurable diesel TAC emissions from the project would occur for only a brief period during construction activities that would require onsite use of heavy-duty equipment. The toxicity of diesel exhaust is evaluated relative to a 24-hour per day, 365 days per year, 70-year lifetime exposure. The SCAQMD does not generally require the analysis of construction-related diesel emissions relative to health risk due to the short period for which the majority of diesel exhaust would occur. Health risk analyses are typically assessed over a 9-, 30-, or 70-year timeframe rather than a relatively brief construction period, due to the lack of health risk associated with such a brief exposure. As such, potential impacts of the project due to emissions of TACs would be less than significant.

Odor Impacts

As stated above, a significant impact may occur if a project would create objectionable odors affecting a substantial number of people. However, objectionable odors are typically associated with manufacturing, industrial, or sewage treatment processes, while the project involves a residential development. Nevertheless, the SCAQMD's rules for odor compliance are mandated under the California Health and Safety Code, Section 41700, and they are also addressed in SCAQMD Rule 402. This rule on Public Nuisance states: "A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals." During construction and operations, the project would be subject to this regulation. Therefore, odor impacts of the project during construction and operation would be less than significant.

5.0 GREENHOUSE GAS EMISSIONS

Greenhouse Gas Emissions and Global Climate Change

Greenhouse Gases (GHGs) emitted by human activity are implicated in global climate change. These GHGs contribute to an increase in the temperature of the earth's atmosphere by preventing long wavelength heat radiation in some parts of the infrared spectrum from leaving the atmosphere. According to California's 2017 Climate Change Scoping Plan,⁵ in California, as in the rest of the world, climate change is contributing to an escalation of serious problems, including raging wildfires, coastal erosion, disruption of water supply, threats to agriculture, spread of insect-borne diseases, and continuing health threats from air pollution. For purposes of planning and regulation, Section 15364.5 of the California Code of Regulations defines GHGs as including CO₂, CO, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. CO₂ is the primary GHG emitted in California, accounting for 84 percent of total GHG emissions in 2015.⁶ Because the warming potential of the identified GHGs differ, GHG emissions are typically expressed in terms of CO₂ equivalents (CO₂e), providing a common expression for the combined volume and warming potential of the GHGs generated by a particular emitter. The total GHG emissions from individual sources are generally reported in metric tons (MT) and are expressed as MT of CO₂ (MTCO₂e).

Fossil fuel combustion in the transportation sector (on-road motor vehicles, off-highway mobile sources, and aircraft) is the single largest source of GHG emissions, accounting for approximately half of GHG emissions globally. The transportation sector, primarily on-road travel, is the single largest source of CO₂ emissions in California. Additionally, about 50 percent of the industrial source emissions of CO₂ are from the refinery and oil and gas sectors. When the industrial source emissions from the oil and gas sectors are attributed to the transportation sector, the emissions associated with transportation amount to approximately half of Statewide GHG emissions.⁷

The Global Warming Solutions Act of 2006 (Assembly Bill, or AB, 32) required that the California Air Resources Board (ARB) determine the Statewide 1990 GHG emission level and approve a Statewide GHG emissions limit, equal to the 1990 level, to be achieved by 2020. As reported in the 2017 Climate Change Scoping Plan, California is on track to exceed its 2020 GHG reduction target. Executive Order B-30-15 and Senate Bill (SB) 32 extended the goals of AB 32 and set a 2030 goal of reducing emissions by 40 percent from 2020 levels.

Significance Criteria

Based on the CEQA Guidelines, Appendix G, a project would have a potentially significant GHG impact if it would:

- Generate GHG emissions, directly or indirectly, that may have a significant impact on the environment.
- Conflict with an applicable plan, policy or regulation adopted to reduce GHG emissions.

According to Section 15064.4 of the CEQA Guidelines, in determining the significance of GHG emissions the "lead agency shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of GHG emissions resulting from a project." However, CEQA Guidelines Section 15064.4 does not establish a threshold of significance, but states that a lead agency shall

⁵ California Air Resources Board, California's 2017 Climate Change Scoping Plan, November 2017.

⁶ Ibid.

⁷ Ibid.

have discretion to determine, in the context of a particular project, whether to (1) quantify GHG emissions resulting from a project and/or (2) rely on a qualitative analysis or performance-based standards. The CEQA Guidelines also clarify that a project's incremental contribution of GHG emissions may be cumulatively considerable even if it appears relatively small compared to statewide, national, or global emissions (see CEQA Guidelines Section 15064.4(b)).

According to CEQA Guidelines Section 15064.4(b), Lead agencies should consider the following factors when determining the significance of impacts from GHG emissions on the environment:

- (1) The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting.
- (2) Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- (3) The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

Pursuant to Section 15064.4 of the CEQA Guidelines, the project's GHG emissions were estimated using CalEEMod.2016.3.2 emissions estimation model, which was developed for CAPCOA in collaboration with the California Air Districts. The CalEEMod output is provided in Appendix A. However, no numeric threshold of significance for the analysis of GHG impacts that would apply to the project has been adopted by the City, the SCAQMD, or the State for determining significance pursuant to CEQA Guidelines Section 15064.4(b)(2).

On December 5, 2008, the SCAQMD Governing Board adopted a staff proposal for an interim quantitative GHG significance threshold for industrial projects where the SCAQMD is the lead agency (e.g., stationary source permit projects, rules, plans, etc.) of 10,000 MTCO₂e/year. The SCAQMD Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, dated October 2008 also included a recommendation for establishing an interim GHG significance threshold of 3,000 MTCO₂e/year for residential and commercial projects in addition to the 10,000 MTCO₂e/year threshold for industrial facilities. The policy objective of SCAQMD's staff recommended interim GHG significance threshold proposal was to achieve an emission capture rate of 90 percent of all new or modified stationary source projects to address the long-term adverse impacts associated with global climate change. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to some type of CEQA analysis.

In September 2010, regarding numerical GHG significance thresholds for residential and commercial uses, the SCAQMD staff presented the GHG CEQA Significance Threshold Stakeholder Working Group #15 with recommendations for numerical screening levels for lead agencies to determine the significance of GHG emissions of non-industrial projects, which included a screening threshold of 3,000 MTCO₂e/year for residential, commercial, and mixed-use projects. As stated above, no quantitative screening level for GHG emissions was adopted by SCAQMD that would apply to the project.

However, given the lack of a formally adopted numerical significance threshold applicable to this project, SCAQMD's proposed screening level of 3,000 MTCO₂e is provided and discussed for informational purposes in conjunction with the project's quantified GHG emissions. The determination of significance is thus to be made based on CEQA Guidelines Section 15064.4(b)(3) guidance regarding compliance with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

Construction Activity Greenhouse Gas Emissions

As shown in the CalEEMod Version 2020.4.0 output for the proposed project in Appendix A, during project construction, the CalEEMod computer model estimates that the construction activities would generate a total of 1,379 MTCO₂e emissions, which would not exceed the recommended threshold of 3,000 MTCO₂e. The SCAQMD's GHG emissions evaluation guidance is to amortize construction emissions over a 30-year lifetime, which results in a project amortized annual emissions of approximately 46 MTCO₂e emissions. The amortized construction emissions have been added to the project's annual operational emissions, evaluated below.

Operational Greenhouse Gas Emissions

Based on the CalEEMod Version 2020.4.0 output files provided in Appendix A of this report, the project's annual operational GHG emissions from a combination of area sources, energy use, mobile, water use, and waste disposal would be 2,650.1 MTCO₂e, as shown in **Table 10, Annual Greenhouse Gas Emissions**. With the addition of the amortized construction GHG emissions discussed above, the project would result in annual emissions of approximately 2,696.1 MTCO₂e.

The contribution to GHG emissions by the existing commercial and residential uses on the property to be removed by the project was calculated using CalEEMod to determine the proposed project's net increase in total GHG emissions. The CalEEMod output for the existing use is included in Appendix A as the 8th and Hobart Existing Use. The estimated annual GHG emissions from the existing uses are approximately 418.9 MTCO₂e, which would be eliminated by development of the proposed project. Therefore, the proposed project's net increase in annual GHG emissions over the previous use would be 2,277.2 MTCO₂e, which would be below the 3,000 MTCO₂e threshold recommended by SCAQMD in 2010.

Table 10
Annual Greenhouse Gas Emissions

Generation Source	MTCO ₂ e/year
Project Emissions	
Area Sources	4.3
Energy Utilization	828.8
Mobile Source	1,573.0
Solid Waste Generation	78.1
Water Consumption	165.9
Construction (Amortized)	46.0
Total Project Operational Emissions ^a	2,696.1
Existing Use	
All Sources	418.9
Net Increase	2,277.2
Guideline Threshold	3,000.0
Exceeds Threshold?	No
Source: Proposed- CalEEMod Version 2020.4.0 output, August 3, 2022; Existing- CalEEMod Version 2020.4.0 output, March 2, 2022	

Plan Consistency

The following section describes the extent the project complies with or exceeds the performance-based standards included in the regulations outlined in the City's Green Building Code, the Mobility Plan of the City's General Plan, the Green LA Climate Action Plan (the City's adopted Climate Action Plan, or CAP), the ClimateLA implementation program associated with the Green LA framework, and the Sustainable City

pLAn 2019 (also referred to as the City's Green New Deal). As demonstrated in the following analysis, the project would be consistent with the applicable GHG reduction plans and policies.

City of Los Angeles Green Building Code

The Los Angeles Green Building Code (LAGBC), found in Section IX, Article 9 of the Los Angeles Municipal Code (LAMC), is based on the California Green Building Standards Code that was developed and mandated by the State to attain consistency among the various jurisdictions within the State, reduce the building's energy and water use, reduce waste, and reduce the carbon footprint. The LAGBC was adopted pursuant to the Los Angeles Green Building Ordinance No. 181,480, to assist in regulating and reducing GHG emissions. The project would comply with the LAGBC by incorporating water and electricity use efficiency features, and it would meet construction waste diversion requirements. Through regulatory compliance, the project would be consistent with the provisions of the LAGBC.

City of Los Angeles General Plan Air Quality Element

The Air Quality Element of the City General Plan, adopted in 1992, contains broad policy goals that reflect an acknowledgement of the interrelationship between transportation and land use planning as they relate to air quality. The more specific policies that follow each goal are primarily actions for the City to take and are not applicable at the project level. Those policies that can be applicable at the project level, and the project's consistency with them, are presented below in **Table 11, Project Consistency with the General Plan Air Quality Element**.

Table 11
Project Consistency with the General Plan Air Quality Element

Goals and Policies	Consistency Analysis
<i>Goal 1: Good air quality in an environment of continued population growth and healthy economic structure.</i>	
Policy 1.3.1 – Minimize particulate emissions from construction sites.	Consistent: The project would minimize particulate emissions during construction through implementation SCAQMD Rule 403 which requires construction projects to implement an aggressive dust control program.
Policy 1.3.2 – Minimize particulate emissions from unpaved roads and parking lots associated with vehicular traffic.	Not Applicable: The project does not include the construction of unpaved roads or parking lots. During construction activities dust from unpaved surfaces will be controlled per SCAQMD Rule 403.
<i>Goal 2: Less reliance on single-occupant vehicles with fewer commute and non-work trips.</i>	
Policy 2.2.2 – Encourage multi-occupant vehicle travel and discourage single occupant vehicle travel by instituting parking management practices.	Consistent: The project incorporates 39 short-term and 165 long-term bicycle parking spaces to encourage alternative transportation, and has a reduction of residential parking spaces from the code requirement. Pursuant to the LAMC a total of 333 parking spaces would be required for the residential units. The Density Bonus Law allows housing projects with 11 percent very low income units within 1/2 mile of accessible major transit stop to provide .5 parking spaces per unit. The project is therefore providing 1 space for each two-bedroom unit and .5 spaces for each other unit, for a total of 139 residential parking spaces, which will help discourage single-occupant vehicle travel.
<i>Goal 3: Efficient management of transportation facilities</i>	

Goals and Policies	Consistency Analysis
<i>and system infrastructure using cost-effective system management and innovative demand management techniques.</i>	
There are no project-applicable policies associated with Goal 3.	
<i>Goal 4: Minimize impacts of existing land use patterns and future land use development on air quality by addressing the relationship between land use, transportation, and air quality.</i>	
Policy 4.2.3 – Ensure that new development is compatible with pedestrians, bicycles, transit, and alternative fuel vehicles.	Consistent: The project incorporates 39 short-term and 165 long-term bicycle parking spaces, and per the California Building Code provides a total of 124 EV capable parking spaces. Adjacent sidewalks will be repaired or reconfigured per City standards, and the project provides 139 residential parking spaces rather than the code requirement of 333, which will help encourage a reduction in car dependency and use of nearby transit.
Policy 4.2.4 – Require that air quality impacts be a consideration in the review and approval of all discretionary projects.	Consistent: The project’s potential air quality and GHG impacts are assessed in this document.
Policy 4.2.5 – Emphasize trip reduction, alternative transit and congestion management measures for discretionary projects.	Consistent: The project incorporates 39 short-term and 165 long-term bicycle parking spaces to encourage alternative transportation, and has a reduction of residential parking spaces from the code requirement. Pursuant to the LAMC a total of 333 parking spaces would be required for the residential units. The Density Bonus Law allows housing projects with 11 percent very low income units within 1/2 mile of accessible major transit stop to provide .5 parking spaces per unit. The project is therefore providing 1 space for each two-bedroom unit and .5 spaces for each other unit, for a total of 139 residential parking spaces, which will help reduce vehicle trips and encourage transit use.
<i>Goal 5: Energy efficiency through land use and transportation planning, the use of renewable resources and less-polluting fuels and the implementation of conservation measures including passive measures such as site orientation and tree planting.</i>	
Policy 5.1.4 – Reduce energy consumption and associated air emissions by encouraging waste reduction and recycling.	Consistent: Pursuant to LAMC Section 99.04.408.1, the Project would be required to divert at least 50 percent of construction and demolition waste from landfills as a condition of permitting. The project is also required to have a recycling program in place during operations pursuant to AB 341 and LA’s Green New Deal which aims to achieve zero waste by 2050.
<i>Goal 6: Citizen awareness of the linkages between personal behavior and air pollution and participation in efforts to reduce air pollution.</i>	
There are no project-applicable policies associated with Goal 6.	
Source: The City of Los Angeles, Air Quality Element, Adopted November 24, 1992.	

Mobility Plan 2035

The Mobility Plan 2035, a subsection of the City General Plan, provides a policy foundation for achieving a transportation system that balances the needs of all road users and includes goals to target GHG emissions reductions through a more sustainable transportation system. Strategies to achieve this goal include utilizing land use policies aimed at shortening the distance between housing, jobs and services; offering more attractive non-vehicular alternatives; and creating Transit Demand Management (TDM) programs to support Citywide reductions in Vehicle Miles Traveled (VMT) per capita. The project is consistent with these goals of the Mobility Plan 2035, as it represents urban infill development that would increase land use density within an area that is comprised of high density urban development, and would be a mixed-use development providing a combination of residential, office, and retail uses within the same project site. Additionally, the project would provide long-term and short-term bicycle parking for residents and visitors, would provide solar-ready roof areas, and a total of 124 electric vehicle (EV) capable parking spaces.

The project site is located within a TOC (Tier 3),⁸ within approximately 0.4 mile walking distance from two subway stations, and several bus stops serviced by a variety of local and regional carriers are within the project vicinity. The nearest bus stop is located on 8th Street within approximately 65 feet of the project site. The project area is also served by bus transit along 9th Street, Wilshire Boulevard, and Western Avenue, among many other routes in the vicinity. Bus service in the near vicinity include Los Angeles Department of Transportation's (LADOT) Downtown Area Short Hop (DASH) Wilshire Center/Koreatown routes, as well as multiple lines provided by Metro. These existing area transit features encourage the use of alternative transportation modes that would reduce VMT per capita. Further, the project site and vicinity are served by an existing sidewalk network providing pedestrian access for future residents and users of the project site to the surrounding community, which also encourages use of transportation alternatives that reduce VMT, and would be consistent with the goal of the Mobility Plan 2035 to increase the use of alternative transportation modes.

Green LA Plan and ClimateLA

The Green LA Plan (adopted April 2007) is the City's CAP and aims to reduce GHG emissions to 35 percent below 1990 levels by 2030 by increasing the generation of renewable energy, improving energy conservation and efficiency, and changing transportation and land use patterns to reduce dependence on automobiles. To facilitate the implementation of these overarching goals, in 2008 the City adopted ClimateLA, an implementation program that provides detailed information about each action item discussed in the Green LA Plan framework. Action items range from harnessing wind power for electricity production and energy efficiency retrofits in City buildings, to converting the City's fleet vehicles to cleaner and more efficient models and reducing water consumption. Information about proposed and/or ongoing programs, opportunities for achieving the City's goals, specific challenges, and a list of milestones is provided for each action item. The scope of these actions range from those impacting only municipal facilities, such as retrofitting City Hall with high efficiency lighting systems, to those facilitating changes in the private sector, such as rebates for the purchase of energy-efficient appliances.⁹

Table 12, Project Consistency with the Green LA Plan and ClimateLA Actions, includes the evaluation of project consistency with the various strategies presented in the Green LA Plan and Climate LA. As demonstrated below, the project would not be in conflict with the goals of the Green LA Plan or actions and strategies of ClimateLA to reduce GHG emissions to 35 percent below 1990 levels by 2030 by

⁸ City of Los Angeles, Department of City Planning, Zoning Information and Map Access System (ZIMAS), Available at <http://zimas.lacity.org/>, Accessed on July 16, 2022.

⁹ City of Los Angeles, December 2008, ClimateLA Program Document.

increasing the generation of renewable energy, improving energy conservation and efficiency, and changing transportation and land use patterns to reduce dependence on automobiles.

Table 12
Project Consistency with the Green LA Plan and ClimateLA Actions

Action	Actions and Strategies	Consistency Analysis
Focus Area: Energy		
Action E1	Meet the goal to increase renewable energy from solar, wind, biomass, and geothermal sources to 20 percent by 2010.	Not Applicable. This action does not apply directly to the project, as the Los Angeles Department of Water and Power (LADWP) and other utility providers are responsible for meeting these goals. The LADWP met the goal of increasing renewable energy to 20 percent by 2010.
Action E2	Increase use of renewable energy to 35 percent by 2020.	Not Applicable. This action does not apply directly to the project, as the LADWP and other utility providers are responsible for achieving this goal. The LADWP is working aggressively to expand Los Angeles' supply of renewable resources, including wind, solar, geothermal, biomass, and small hydroelectric power. In 2016, LADWP achieved a 29 percent renewable portfolio (based on preliminary estimates), surpassing the State-legislated requirement of 25 percent renewable energy. The LADWP is on track to exceed the next State-legislated milestone by 2020 and aims to achieve 50 percent renewable energy by 2025. ¹⁰ The project would not inhibit the City's ability to meet this goal.
Action E3	Reduce the use of coal-fired power plants.	Not Applicable. This action does not directly apply to the project, as the LADWP and other utility providers are responsible for meeting this goal. The LADWP aims to transition from coal-fired power plants to lower emitting CO ₂ sources. The project would not conflict with the City's ability to implement this action.
Action E4	Increase the efficiency of natural gas-fired power plants.	Not Applicable. This action does not directly apply to the project. The local utility providers serving the project site aim to utilize gas turbines, which are 15 percent more fuel efficient at generating electricity than steam boilers. The project would not conflict with the City's ability to implement this action.
Action E5	Increase biogas co-firing of natural gas-fired power plants.	Not Applicable. This action does not directly apply to the project, as the LADWP, Los Angeles Sanitation and Environment (LASAN), and other utility providers are responsible for implementation. These entities plan to increase the combustion of biogas and will displace a portion of natural gas usage at power plants, thus reducing GHG emissions.

¹⁰ Los Angeles Department of Water and Power. Renewable Energy Program, Available at: https://www.ladwp.com/ladwp/faces/ladwp/aboutus/a-power/a-p-renewableenergy/a-p-renewableenergypolicy?_adf.ctrl-state=ip46nby85_4&_afLoop=1164600650684685. Accessed on July 12, 2022.

Action	Actions and Strategies	Consistency Analysis
Action E6	Present a comprehensive set of green building policies to guide and support private sector development.	Consistent. The project is designed to comply with green building standards, including the CALGreen and the LAGBC to reduce energy consumption. As the project is designed to meet comprehensive building policies, it would be consistent with this goal.
Action E7	Reduce energy use by all City departments to the maximum extent feasible.	Consistent. Although City facilities are responsible for meeting these standards, the project would comply with CALGreen and the LAGBC. Therefore, the project would be consistent with City actions to reduce energy use.
Action E8	Complete energy efficiency retrofits of all City-owned buildings to maximize energy efficiency and reduce energy consumption.	Not Applicable. This action does not apply to the project as it is not a City-owned building. However, the proposed new structure would be constructed to comply with CALGreen and the LAGBC. Therefore, the project would be consistent with City actions to maximize energy efficiency of buildings and reduce energy consumption.
Action E9	Install the equivalent of 50 “cool roofs” on new or remodeled City buildings.	Consistent. Although City facilities are responsible for meeting this standard, the project would provide a vegetated green roof on a portion of the structure’s roof, consistent with this action.
Action E10	Install solar heating for all City-owned swimming pools.	Not Applicable. This action does not apply to the project, as it does not include a City-owned swimming pool (nor does the project contain a private swimming pool).
Action E11	Improve energy efficiency at drinking water treatment and distribution facilities.	Not Applicable. This action does not directly apply to the project, as the LADWP and other utility providers are responsible for meeting this goal. The LADWP aims to develop a design specification for water treatment and distribution facilities that includes high efficiency motors, lighting, and other efficient measures.
Action E12	Maximize energy efficiency of wastewater treatment equipment.	Not Applicable. This action does not directly apply to the project, as the LADWP and LASAN are responsible for meeting this goal. Agencies would employ energy saving usage tactics, such as investigating and testing modifications to treatment processes, and researching the availability of more energy-efficient treatment equipment.
Action E13	Distribute two compact fluorescent light (CFL) bulbs to each of the 1.4 million households in the City.	Not Applicable. This action does not directly apply to the project, as the LADWP and other City agencies are responsible for implementation.
Action E14	Increase the level and types of customer rebates for energy efficient appliances, windows, lighting, and heating and cooling systems.	Not Applicable. This goal would not directly apply to the project, as the LADWP and other agencies are responsible for implementation. However, the project would be constructed to current code standards regarding energy efficient building methods, lighting, and appliances. The project would therefore not interfere with the City’s ability to implement this action.
Action E15	Increase the distribution of energy efficient refrigerators to qualified customers.	Not Applicable. This action does not directly apply to the project, as the LADWP and other agencies are responsible for implementation.

Action	Actions and Strategies	Consistency Analysis
Action E16	Create a fund to “acquire” energy savings as a resource from LADWP customers.	Not Applicable. This goal does not directly apply to the project, as it would be the responsibility of the LADWP and/or other City agencies to establish a fund that would reward customers for conservation efforts.
Focus Area: Water		
Action W1	Meet all additional demand for water resulting from growth through water conservation and recycling.	Consistent. Although City facilities are responsible for implementing these actions, the project would incorporate water saving fixtures as required by current codes, and would therefore be consistent with Citywide water conservation efforts.
Action W2	Reduce per capita water consumption by 20 percent.	
Action W3	Implement the City’s innovative water and wastewater integrated resources plan that will increase conservation, and maximize use of recycled water, including capture and reuse of stormwater.	
Focus Area: Transportation		
Action T1	Require 85 percent of the City fleet to be powered by alternative fuels.	Not Applicable. This does not directly apply to the project, as City agencies are responsible for implementation. The project would not interfere with the City’s ability to do so.
Action T2	Convert 100 percent of City refuse collection trucks and street sweepers to alternative fuels.	Not Applicable. This does not directly apply to the project, as City agencies are responsible for implementation. The project would not interfere with the City’s ability to do so.
Action T3 (Metro)	Convert 100 percent of Metro buses to alternative fuels.	Not Applicable. This does not directly apply to the project, as City agencies are responsible for carrying out this action. In 2011, Metro retired its last diesel bus and became the first major transit agency to operate only clean fuel buses. ¹¹
Action T3 (DOT)	Convert 100 percent of DOT commuter express diesel buses to alternative fuel.	Not Applicable. This does not directly apply to the project, as the LADOT and other City agencies are responsible for implementation. The project would not conflict with this action.
Action T4	Complete the Automated Traffic Surveillance and Control System (ATSAC).	Not Applicable. The LADOT and other agencies are responsible for implementing this action. These computer-based systems adjust and optimize traffic signal timing in response to current traffic demands. The project would not conflict with this action.
Action T5	Expand FlyAway shuttles serving LAX and other regional airports, and convert existing FlyAway buses to alternative fuels.	Not Applicable. Other agencies are responsible for implementing this action. FlyAway shuttles that provide transit service to the Los Angeles International Airport (LAX) from several Los Angeles locations reduce the number of private vehicles traveling to the airport and provide convenient passenger pick-up and drop-off

¹¹ Los Angeles County Metropolitan Transportation Authority, Metro Retires Last Diesel Bus, Becomes World’s First Major Transit Agency to Operate Only Clean Fuel Buses, available at: https://www.metro.net/news/simple_pr/metro-retires-last-diesel-bus/, accessed on July 12, 2019.

Action	Actions and Strategies	Consistency Analysis
		locations and parking. The project would not conflict with the City's ability to achieve this action.
Action T6	Make transit information easily available, understandable, and translated into multiple languages.	Not Applicable. The LADOT, Metro, and other City agencies are primarily responsible for implementing this action. The project would not conflict with the City's ability to achieve this action.
Action T7	Increase the City employee participation in the rideshare program and increase the subsidy for use of mass transit.	Not Applicable. This action applies to City employees and is not directly relevant to private development such as the project. The project would not inhibit the City's ability to take this action.
Action T8	Promote walking and biking to work, within neighborhoods, and to large events and venues.	Consistent. The project would promote walking and biking to work and within neighborhoods, as it is infill development located in a Transit Priority Area (TPA) and Transit Oriented Community (TOC). The project includes live/work units, reducing anticipated project-related commuting. Also, the project provides a mix of residential, commercial, and office land uses in a highly urbanized area. Nearby features such as transit options, offices, restaurants, and entertainment facilities would further promote walking and alternative modes of transportation to and from the project site.
Action T9	Expand the regional rail network.	Not Applicable. Metro is primarily responsible for implementing this action. The project site is in close proximity to an existing Metro rail station, from which connections can be made to additional lines, including the regional Metrolink system. The project would not interfere with the City's ability to implement this action.
Focus Area: Land Use		
Action LU1	Promote high-density housing close to major transportation stops (same as Action Items LU3 and LU6).	Consistent. The project would provide high-density housing near major transit corridors including a Metro station and bus stops, bicycle lanes, and pedestrian sidewalks.
Action LU2	Promote and implement TOD.	Consistent. The project is a mixed-use development, with high-density residential units, live/work units, and commercial space near major transit corridors including a Metro rail station and bus lines.
Action LU3	Make available underutilized City land for housing and mixed-use development.	Consistent. Although this action applies to lands owned by the City rather than private land such as the project site, the project would redevelop a privately held property with mixed-use development including higher density housing, which would be consistent with the aim of this action.
Action LU4	Make available underutilized City land for parks and open space.	Not Applicable. This action does not apply to the project, as the project site is comprised of privately-owned land not held by the City.

Action	Actions and Strategies	Consistency Analysis
Action LU5	Clean up brownfields sites for community economic revitalization projects and open space.	Not Applicable. The action does not apply to the project, as the project site is not a designated brownfield site.
Action LU6	Make available underutilized City land within 1,500 feet of transit for housing and mixed-use development.	Consistent. Although this action applies to lands owned by the City rather than private land such as the project site, the project would redevelop a privately held property within 1,500 feet of transit with mixed-use development including higher density housing, which would be consistent with the aim of this action.
Focus Area: Waste		
Action WsT1	Reduce or recycle 70 percent of trash by 2015.	Consistent. According to the 2013 Zero Waste Progress Report, the City's solid waste collection and handling providers as well as recycling facilities, have achieved a landfill diversion rate of 76.4 percent. This diversion rate exceeds the AB 939-required diversion rate of 50 percent. ¹² The project would provide onsite bins for separating recycling waste consistent with the City's goals for waste reduction/recycling.
Focus Area: Open Space and Greening		
OS/G1	Create 35 new parks.	Not Applicable. It is primarily the responsibility of the City Department of Recreation and Parks (RAP) to identify suitable sites and create new parks and joint-use sites. The project would provide additional "greening" with onsite landscaping, including a green roof, and would not interfere with the City's ability to implement this action.
OS/G6	Collaborate and partner with schools to create more parks in neighborhoods.	Not Applicable. The project would not interfere with the City's ability to implement this action.
OS/G2	Revitalize the Los Angeles River to create open space opportunities along the 32-mile corridor within the City of Los Angeles.	Not Applicable. The project site not located along the Los Angeles River, and therefore, would not interfere with the City's ability to implement this action.
OS/G3	Plant 1 million trees throughout Los Angeles.	Consistent. The project would be required to meet current codes regarding retention or replacement of street trees, thereby assisting the City in meeting this goal.
OS/G4	Identify opportunities to "daylight" streams.	Not Applicable. This action does not apply directly to the proposed urban infill project, which does not include a stream onsite.

¹² City of Los Angeles, Environment: LA Sanitation, Adopted April 2015, City of Los Angeles Solid Waste Integrated Resources Plan – A Zero Waste Master Plan.

Action	Actions and Strategies	Consistency Analysis
OS/G5	Identify and develop promising locations for stormwater infiltration to recharge groundwater aquifers.	Consistent. The project site is currently fully built out, with predominantly impervious surfaces. The project would not substantially alter the percentage of impervious surfaces within the surrounding urban area, and would be required to provide stormwater management features consistent with applicable codes.
Sources: The City of Los Angeles, Green LA: An Action Plan to Lead the Nation in Fighting Global Warming, May 2007. City of Los Angeles, ClimateLA Program Document, December 2008.		

Sustainable City pLAn 2019 (LA's Green New Deal)

The Sustainable City pLAn 2019 provides targets, milestones, and initiatives for reaching short-term and long-term sustainability goals. The specified targets of the Sustainable City pLAn 2019 consist of the following items:

Environmental Justice Targets

- Improve the raw scores of CalEnviroScreen indicators of City communities in the top 10 percent by an average of 25 percent by 2025; and 50 percent by 2035.
- Reduce the number of annual childhood asthma-related emergency room visits in the City's most contaminated neighborhoods to less than 14 per 1,000 children by 2025; and eight per 1,000 children by 2035.

Renewable Energy Targets

- LADWP will supply 55 percent renewable energy by 2025; 80 percent by 2036; and 100 percent by 2045.
- Increase cumulative MW by 2025; 2035; and 2050 of: Local solar to 900-1,500 MW, 1,500-1,800 MW, and 1,950 MW; energy storage capacity to 1,654-1,750 MW, 3,000 MW, and 4,000 MW, and demand response programs to 234 MW (2025) and 600 MW (2035).

Local Water Targets

- Source 70 percent of the City's water locally and capture 150,000 acre-feet/year of stormwater by 2035.
- Recycle 100 percent of all wastewater for beneficial reuse by 2035.
- Build at least 10 new multi-benefit stormwater capture projects by 2025; 100 by 2035; and 200 by 2050.
- Reduce potable water use per capita by 22.5 percent by 2025; and 25 percent by 2035; and maintain or reduce 2035 per capita water use through 2050.
- Install or refurbish hydration stations at 200 sites, prioritizing municipally-owned buildings and public properties such as parks, by 2035.

Clean and Healthy Buildings Targets

- All new buildings will be net zero carbon by 2030; and 100 percent of buildings will be net zero carbon by 2050.

-
- Reduce building energy use per sf for all building types: 22 percent by 2025; 34 percent by 2035; and 44 percent by 2050.

Housing and Development Targets

- End street homelessness by 2028.
- Increase cumulative new housing unit construction to 150,000 by 2025; and 275,000 units by 2035.
- Ensure 57 percent of new housing units are built within 1500 ft of transit by 2025; and 75 percent by 2035.
- Create or preserve 50,000 income-restricted affordable housing units by 2035 and increase stability for renters.

Mobility and Public Transit Targets

- Increase the percentage of all trips made by walking, biking, micro-mobility/matched rides or transit to at least 35 percent by 2025; 50 percent by 2035; and maintain at least 50 percent by 2050.
- Reduce VMT per capita by at least 13 percent by 2025; 39 percent by 2035; and 45 percent by 2050.
- Ensure Los Angeles is prepared for Autonomous Vehicles by the 2028 Olympic and Paralympic Games.

Zero Emission Vehicles Targets

- Increase the percentage of electric and zero emission vehicles in the City to 25 percent by 2025; 80 percent by 2035; and 100 percent by 2050.
- Electrify 100 percent of Metro and LADOT buses by 2030.
- Reduce port-related GHG emissions by 80 percent by 2050.

Industrial Emissions and Air Quality Monitoring Targets

- The City will reach the U.S. EPA parts per billion ozone attainment standard by 2025 and meet all future compliance dates.
- Reduce industrial emissions by 38 percent by 2035; and 82 percent by 2050.
- Reduce methane leak emissions by 54 percent by 2035; and 80 percent by 2050.

Waste and Resource Recovery Targets

- Increase landfill diversion rate to 90 percent by 2025; 95 percent by 2035; and 100 percent by 2050.
- Reduce municipal solid waste generation per capita by at least 15 percent by 2030, including phasing out single-use plastics by 2028.
- Eliminate organic waste going to landfill by 2028.
- Increase proportion of waste products and recyclables productively reused and/or repurposed within Los Angeles County to at least 25 percent by 2025; and 50 percent by 2035.

Food Systems Targets

- Ensure all low-income Angelenos live within 0.5 mile of fresh food by 2035.

-
- Increase the number of urban agriculture sites in the City by at least 25 percent by 2025; and 50 percent by 2035.
 - Prepare for natural disasters by increasing the resiliency of our food systems infrastructure.

Urban Ecosystems and Resilience Targets

- Increase tree canopy in areas of greatest need by at least 50 percent by 2028.
- Complete or initiate restoration identified in the ‘ARBOR’ Plan by 2035.
- Create a fully connected LARiverWay public access system that includes 32 miles of bike paths and trails by 2028.
- Reduce urban/rural temperature differential by at least 1.7 degrees by 2025; and three degrees by 2035.
- Ensure proportion of Angelenos living within 0.5 mile of a park or open space is at least 65 percent by 2025; 75 percent by 2035; and 100 percent by 2050.
- Achieve and maintain ‘no-net loss’ of native biodiversity by 2035.

Prosperity and Green Jobs Targets

- Create 300,000 green jobs by 2035, and 400,000 green jobs by 2050.
- Increase private sector green investment in the City by \$750 million by 2025; and \$2 billion by 2035.
- Eliminate unemployment rate gap between the City and Los Angeles County.

Lead by Example Targets

- Reduce municipal GHG 55 percent by 2025; 65 percent by 2035; and reach carbon neutral by 2045.
- Reduce municipal energy use by 18 percent by 2025; 35 percent by 2035; and 44 percent by 2050.
- Reduce municipal water use by at least 25 percent by 2025; and 30 percent by 2035.
- Lead on zero waste and achieve a zero waste City Hall by 2025.
- Convert all City fleet vehicles to zero emission where technically feasible by 2028.
- Ensure all new municipally owned buildings and major renovations will be all-electric, effective immediately.
- Reach 2 million Angelenos through outreach, education, and training programs by 2025.

The project would be consistent with the emissions reduction and energy and water efficiency targets of the Sustainable City pLAn associated with individual project development, as it would comply with the performance requirements specified in the City’s Building Code, including water and electricity use efficiency requirements. The project site would redevelop an underutilized infill property (including a surface parking lot) within an urbanized area, where multiple modes of transportation alternatives are available, including adjacent or nearby bus stops serviced by various routes, a Metro rail station, and pedestrian sidewalks. The project site is located within walking distance of multiple office, restaurant, retail, and entertainment opportunities that can be accessed by the project’s residents without the use of personal vehicles. Additionally, the propose mixed-use development would incorporate high-density residential units, live/work units, and commercial space, providing opportunities for future residents to live, work, and shop onsite. Therefore, the project would promote sustainability and would be consistent with the Sustainable City pLAn.

Southern California Association of Governments Regional Transportation Plan/Sustainable Communities Strategy

The Southern California Association of Governments (SCAG) 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) presents a long-term transportation vision through the year 2045 for the six-county region of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties. SCAG policies are directed towards the development of regional land use patterns that contribute to reductions in vehicle miles traveled (VMT) and improvements to the transportation system. As the majority of the GHG emissions are related to the transportation sector, reducing VMT would reduce overall GHG emissions. The RTP/SCS “Core Vision” centers on maintaining and better managing the region’s transportation network, expanding mobility choices by co-locating housing, jobs, and transit, and increasing investment in transit and complete streets. Key to the RTP/SCS is to direct growth of housing and jobs to High Quality Transit Areas (HQTAs), which are defined as within one half-mile of a well-serviced transit stop or a transit corridor with 15-minute or less service frequency during peak commute hours. The project site is located within a designated HQTAs,¹³ with existing multimodal transportation options that include two subway stations within approximately 0.4 miles walking distance. An analysis of the project’s consistency with the RTP/SCS strategies is provided in **Table 13, Consistency with the 2020-2045 RTP/SCS**.

Table 13
Consistency with the 2020-2045 RTP/SCS

Strategies	Consistency Analysis
Focus Growth Near Destinations & Mobility Options	
Emphasize land use patterns that facilitate multimodal access to work, educational and other destinations.	<p>Consistent. The project would be consistent with a land use pattern that facilitates multimodal access to work, educational and other destinations. The RTP/SCS designates the project site vicinity as a high quality transit area (HQTAs), with existing multimodal transportation options that include two subway stations within approximately 0.4 miles walking distance, and several bus stops serviced by a variety of local and regional carriers. The nearest bus stop is located within approximately 65 feet of the project site.</p> <p>The mixed-use project would provide employment opportunities, and housing including live/work units, and onsite office workspace within the same property. As such, the project would provide opportunities to reduce commutes, and provide job opportunities near transit.</p> <p>The project would replace an existing commercial development and associated parking lot, and a single-family residence on an infill property to accommodate new growth.</p> <p>The project design is a mixed-use development that is located along a commercial use corridor close to existing destinations (retail, office, restaurants, etc.)</p>
Focus on a regional jobs/housing balance to reduce commute times and distances and expand job opportunities near transit and along center-focused main streets.	
Plan for growth near transit investments and support implementation of first/last mile strategies.	
Promote the redevelopment of underperforming retail developments and other outmoded nonresidential uses.	
Prioritize infill and redevelopment of underutilized land to accommodate new growth, increase amenities and connectivity in existing neighborhoods.	
Encourage design and transportation options that reduce the reliance on and number of solo car trips (this could include mixed uses or locating and orienting close to existing destinations).	
Identify ways to “right size” parking requirements and	

¹³ Southern California Association of Governments, High Quality Transit Areas (HQTAs) 2045 – SCAG Region, Accessed June 11, 2021 at <https://gisdata-scag.opendata.arcgis.com/datasets/high-quality-transit-areas-hqta-2045-scag-region/explore?location=34.152729%2C-117.742800%2C9.41>

Strategies	Consistency Analysis
promote alternative parking strategies (e.g. shared parking or smart parking).	
Promote Diverse Housing Choices	
<p>Preserve and rehabilitate affordable housing and prevent displacement.</p> <p>Identify funding opportunities for new workforce and affordable housing development.</p> <p>Create incentives and reduce regulatory barriers for building context-sensitive accessory dwelling units to increase housing supply.</p> <p>Provide support to local jurisdictions to streamline and lessen barriers to housing development that supports reduction of greenhouse gas emissions.</p>	<p>Consistent. The project would be consistent with the promotion of diverse housing as it would replace one single-family residence and provide 251 multi-family residential units, 11 percent of which would be designated for affordable housing (very low income).</p>
Leverage Technology Innovations	
Promote low emission technologies such as neighborhood electric vehicles, shared rides hailing, car sharing, bike sharing and scooters by providing supportive and safe infrastructure such as dedicated lanes, charging and parking/drop-off space.	<p>Consistent. This strategy is aimed at public entities. However, the project would provide electric vehicle (EV) ready parking spaces to comply with applicable standards, and the circulation driveway would incorporate a ride sharing pick up and drop off area. As a mixed-use development located within an HQTa with various existing transit options, the project would not conflict with this action/strategy.</p>
Improve access to services through technology—such as telework and telemedicine as well as other incentives such as a “mobility wallet,” an app-based system for storing transit and other multi modal payments.	<p>Consistent. This strategy is aimed at public entities. However, the project has been designed to include residential units, including live/work units, creative office space, and commercial space, providing options for residents to potentially avoid or limit daily work commutes. The project would not conflict with this action/strategy.</p>
Identify ways to incorporate “micro-power grids” in communities, for example solar energy, hydrogen fuel cell power storage and power generation.	<p>Not Applicable. Implementation of this strategy would be beyond the scope of the project. However, the project would not interfere with governments or communities pursuing micro-power grids and would not conflict with this action/strategy.</p>
Support Implementation of Sustainability Policies	
Pursue funding opportunities to support local sustainable development implementation projects that reduce greenhouse gas emissions.	<p>Not Applicable. This strategy is aimed at public entities. However, the project proposes to provide a mixed-use development within a HQTa that supports the reduction of GHG emissions by reducing the need for individual automobile use and would not interfere with this action/strategy.</p>
Support statewide legislation that reduces barriers to new construction and that incentivizes development near transit corridors and stations.	<p>Not Applicable. It would not be within the purview of the project to affect SCAG support of statewide legislation. However, the project proposes to provide a mixed-use development within a HQTa that supports the reduction of GHG emissions by reducing the need for individual automobile use and would not interfere with this action/strategy.</p>

Strategies	Consistency Analysis
Support local jurisdictions in the establishment of Enhanced Infrastructure Financing Districts (EIFDs), Community Revitalization and Investment Authorities (CRIAs), or other tax increment or value capture tools to finance sustainable infrastructure and development projects, including parks and open space.	Not Applicable. Implementation of this strategy would be an agency responsibility and would not be within the purview of the project. However, the project would not interfere with this action/strategy.
Work with local jurisdictions/communities to identify opportunities and assess barriers to implement sustainability strategies.	Not Applicable. Implementation of this strategy is an agency responsibility and would not be within the purview of the project. However, the project would not interfere with local agencies pursuing such opportunities and would not conflict with this strategy.
Enhance partnerships with other planning organizations to promote resources and best practices in the SCAG region.	Not Applicable. Implementation of this strategy is an agency responsibility and would not be within the purview of the project. However, the project would not interfere with local agencies pursuing such partnerships and would not conflict with this action/strategy.
Continue to support long range planning efforts by local jurisdictions.	Not Applicable. Supporting long range planning efforts would be a responsibility of SCAG. However, the project would not interfere with SCAG supporting such planning efforts and would not conflict with this action/strategy.
Provide educational opportunities to local decision makers and staff on new tools, best practices and policies related to implementing the Sustainable Communities Strategy.	Not Applicable. Educating local decision makers on implementation of the Sustainable Communities Strategy (SCS) is a role for SCAG and/or other SCAG-area public agencies and would not be within the purview of the project. However, the project would not interfere with provision of such opportunities and would not conflict with this action/strategy.
Promote a Green Region	
<p>Support development of local climate adaptation and hazard mitigation plans, as well as project implementation that improves community resiliency to climate change and natural hazards.</p> <p>Support local policies for renewable energy production, reduction of urban heat islands and carbon sequestration.</p> <p>Integrate local food production into the regional landscape.</p> <p>Promote more resource efficient development focused on conservation, recycling and reclamation.</p> <p>Preserve, enhance and restore regional wildlife connectivity.</p> <p>Reduce consumption of resource areas, including agricultural land.</p> <p>Identify ways to improve access to public park space.</p>	Not Applicable. These strategies are the responsibility of SCAG to implement. However, the project would be required to incorporate sustainable design features to conserve energy and water and reduce waste generation. The project would result in no impacts to agricultural land, food production, or wildlife connectivity, as it would redevelop an urban infill site. As such, the project would not interfere with SCAG supporting such planning efforts.
Source: Southern California Association of Governments. 2020-2045 RTP/SCS. September 3, 2020.	

As shown in Table 12, the project would be located within a HQT, and would not conflict with implementation of the RTP/SCS strategies.

2017 Climate Change Scoping Plan

The CARB 2017 Climate Change Scoping Plan (2017 Scoping Plan) updated the 2008 Climate Change Scoping Plan in response to SB 32, to identify how the State can reach its 2030 target to reduce GHG emissions by 40 percent from 1990 levels and substantially advance toward the 2050 climate goal to reduce GHG emissions by 80 percent below 1990 levels. As shown by the policy consistency analysis below in **Table 14, Project Consistency with the 2017 Scoping Plan**, the Project would reduce GHG emissions in a manner that would not conflict with, nor impede the implementation of, the 2017 Scoping Plan policies.

Table 14
Project Consistency with the 2017 Scoping Plan

Policy	Primary Objective	Consistency
SB 350	Reduce GHG emissions in the electricity sector through the implementation of the 50 percent Renewable Portfolio Standard (RPS), doubling of energy savings, and other actions as appropriate to achieve GHG emissions reductions planning targets in the Integrated Resource Plan (IRP) process.	Consistent. The LADWP would be the electricity provider for the project and would be responsible for meeting the applicable RPS standards. However, as the project would be designed to meet or exceed current Title 24 Part 6 Building Efficiency Standards and would meet or exceed the mandatory standards of Title 24 Part 11 (CALGreen), the project would achieve energy savings that would support LADWP efforts to reach future RPS goals.
Low Carbon Fuel Standard (LCFS)	Transition to cleaner/less-polluting fuels that have a lower carbon footprint.	Consistent. Although it is not the responsibility of the Project to develop, adopt, or update the LCFS program, the LCFS would reduce the carbon intensity of transportation fuels that are consumed in California, including fuels used by residents, customers, or employees of the proposed mixed-use project.
Mobile Source Strategy (Cleaner Technology and Fuels [CTF] Scenario)	Reduce GHGs and other pollutants from the transportation sector through transition to zero emission and LEVs, cleaner transit systems and reduction of vehicle miles traveled.	Consistent. It is not the responsibility of the Project to introduce ZEVs or LEVs. However, the Project would provide EV ready parking spaces for future installation of charging facilities, which would promote the use of EVs in general to facilitate transition to zero emissions vehicles (ZEVs) and low emissions vehicles (LEVs). Additionally, the Project Site represents an urban/compact mixed-use infill location within a Transit Priority Area (TPA), with nearby transit facilities as well as retail, restaurant, and employment destinations, and would provide onsite bicycle parking facilities.
SB 1383	Approve and Implement Short-Lived Climate Pollutant strategy to reduce highly potent GHGs	Not Applicable. The Project would not be responsible for implementing a Short-Lived Climate Pollutant strategy to reduce

Policy	Primary Objective	Consistency
		highly potent GHGs. The project would not interfere with implementation of this policy.
California Sustainable Freight Action Plan	Improve freight efficiency, transition to zero emission technologies, and increase competitiveness of California's freight system.	Not Applicable. The Project would not be responsible for improving freight efficiency. The Project would consist of residential, office, and commercial uses which would not include substantial freight transportation or logistics centers. The project would not interfere with implementation of this policy.
Post-2020 Cap-and-Trade Program	Reduce GHGs across largest GHG emissions sources	Not Applicable. The Project would not be responsible for implementing a cap-and-trade program for large GHG emissions sources. The project would not interfere with implementation of this policy.
Source: California Air Resources Board. California's 2017 Climate Change Scoping Plan. November 2017.		

Plan Consistency Conclusion

In summary, the project's net increase in GHG emissions would be below the adopted significance threshold of 3,000 MTCO₂e suggested by the SCAQMD, and the project would not conflict with applicable policies of the City's Building Code, Green Building Code, Mobility Plan, Green LA, Sustainable City pLAN, SCAG RTP/SCS, or CARB 2017 Scoping Plan that have been adopted to reduce GHG emissions. Therefore, the project would not conflict with an applicable plan, policy or regulation adopted to reduce GHG emissions and potential impacts regarding GHG emissions during construction and operations would be less than significant. No mitigation measures would be required.

Appendix A

CalEEMod Version 2020.4.0 Computer Model Output

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

The Parks in LA Mixed Use
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.50	1000sqft	0.00	15,500.00	0
Enclosed Parking with Elevator	340.00	Space	0.00	136,000.00	0
Apartments High Rise	251.00	Dwelling Unit	1.45	232,320.00	718
Regional Shopping Center	25.00	1000sqft	0.00	25,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - 1.45 acre site. 251 apt. units 232,320 sf. 25,000 sf retail, 15,500 sf office. 340 parking space garage

Construction Phase - 7 day prep. 36 day grading. 400 day constr. 30 day coating.

Off-road Equipment - Excavator

Off-road Equipment - Excavator

Off-road Equipment -

Trips and VMT - 27 mile haul route

Demolition - 1,073 tons debris disposal

Grading - 58,300 cy export. 1.45 ac. prep

Vehicle Trips - Adjusted per traffic study

Woodstoves - No hearths

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Urban infill development. 173 units/acre, 11% affordable. mixed use residential, commercial, and Live/work units. 0.25 mi. from subway stations. 34 intersections within 0.25 mi.

Area Mitigation -

Waste Mitigation -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	200.00	400.00
tblConstructionPhase	NumDays	4.00	36.00
tblConstructionPhase	NumDays	2.00	7.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	213.35	0.00
tblFireplaces	NumberNoFireplace	25.10	0.00
tblFireplaces	NumberWood	12.55	0.00
tblGrading	AcresOfGrading	13.50	1.50
tblGrading	AcresOfGrading	3.50	1.45
tblGrading	MaterialExported	0.00	58,300.00
tblLandUse	LandUseSquareFeet	251,000.00	232,320.00
tblLandUse	LotAcreage	0.36	0.00
tblLandUse	LotAcreage	3.06	0.00
tblLandUse	LotAcreage	4.05	1.45
tblLandUse	LotAcreage	0.57	0.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblVehicleTrips	ST_TR	4.98	4.45
tblVehicleTrips	ST_TR	49.97	15.28
tblVehicleTrips	SU_TR	3.65	4.45
tblVehicleTrips	SU_TR	25.24	15.28
tblVehicleTrips	WD_TR	4.20	4.45
tblVehicleTrips	WD_TR	11.03	8.19
tblVehicleTrips	WD_TR	42.70	15.28
tblWoodstoves	NumberCatalytic	12.55	0.00
tblWoodstoves	NumberNoncatalytic	12.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

The Parks in LA Mixed Use - 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	3.7723	84.3748	27.0911	0.2233	9.6329	1.1526	10.6012	3.8542	1.0744	4.7533	0.0000	23,999.0174	23,999.0174	2.1069	0.0000	24,051.6898
2022	2.9405	18.3988	22.7281	0.0620	3.1641	0.6209	3.7850	0.8473	0.5987	1.4460	0.0000	6,082.1458	6,082.1458	0.5134	0.0000	6,094.9799
2023	62.6340	16.2844	21.7589	0.0606	3.1641	0.5406	3.7047	0.8473	0.5210	1.3683	0.0000	5,941.3077	5,941.3077	0.4864	0.0000	5,953.4677
Maximum	62.6340	84.3748	27.0911	0.2233	9.6329	1.1526	10.6012	3.8542	1.0744	4.7533	0.0000	23,999.0174	23,999.0174	2.1069	0.0000	24,051.6898

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	3.7723	84.3748	27.0911	0.2233	7.0238	1.1526	7.9920	2.4709	1.0744	3.3699	0.0000	23,999.0174	23,999.0174	2.1069	0.0000	24,051.6898
2022	2.9405	18.3988	22.7281	0.0620	3.1641	0.6209	3.7850	0.8473	0.5987	1.4460	0.0000	6,082.1458	6,082.1458	0.5134	0.0000	6,094.9799
2023	62.6340	16.2844	21.7589	0.0606	3.1641	0.5406	3.7047	0.8473	0.5210	1.3683	0.0000	5,941.3077	5,941.3077	0.4864	0.0000	5,953.4677
Maximum	62.6340	84.3748	27.0911	0.2233	7.0238	1.1526	7.9920	2.4709	1.0744	3.3699	0.0000	23,999.0174	23,999.0174	2.1069	0.0000	24,051.6898

The Parks in LA Mixed Use - 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	16.35	0.00	14.42	24.93	0.00	18.28	0.00	0.00	0.00	0.00	0.00	0.00

The Parks in LA Mixed Use - 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	6.5891	0.2391	20.7513	1.1000e-003		0.1148	0.1148		0.1148	0.1148	0.0000	37.3699	37.3699	0.0361	0.0000	38.2718
Energy	0.0743	0.6385	0.2942	4.0500e-003		0.0514	0.0514		0.0514	0.0514		810.8967	810.8967	0.0155	0.0149	815.7154
Mobile	2.4901	10.8185	32.3988	0.1221	10.7426	0.0944	10.8370	2.8748	0.0878	2.9626		12,446.1999	12,446.1999	0.6243		12,461.8064
Total	9.1535	11.6961	53.4443	0.1273	10.7426	0.2606	11.0031	2.8748	0.2540	3.1287	0.0000	13,294.4665	13,294.4665	0.6759	0.0149	13,315.7935

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	6.5891	0.2391	20.7513	1.1000e-003		0.1148	0.1148		0.1148	0.1148	0.0000	37.3699	37.3699	0.0361	0.0000	38.2718
Energy	0.0743	0.6385	0.2942	4.0500e-003		0.0514	0.0514		0.0514	0.0514		810.8967	810.8967	0.0155	0.0149	815.7154
Mobile	2.1686	9.0874	24.4960	0.0875	7.5198	0.0689	7.5887	2.0123	0.0641	2.0764		8,922.5550	8,922.5550	0.4668		8,934.2252
Total	8.8320	9.9650	45.5415	0.0927	7.5198	0.2351	7.7549	2.0123	0.2302	2.2426	0.0000	9,770.8216	9,770.8216	0.5184	0.0149	9,788.2124

The Parks in LA Mixed Use - 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	3.51	14.80	14.79	27.20	30.00	9.79	29.52	30.00	9.35	28.32	0.00	26.50	26.50	23.30	0.00	26.49

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	10/29/2021	5	20	
2	Site Preparation	Site Preparation	10/30/2021	11/9/2021	5	7	
3	Grading	Grading	11/10/2021	12/29/2021	5	36	
4	Building Construction	Building Construction	12/30/2021	7/12/2023	5	400	
5	Paving	Paving	7/13/2023	7/26/2023	5	10	
6	Architectural Coating	Architectural Coating	7/27/2023	9/6/2023	5	30	

Acres of Grading (Site Preparation Phase): 1.45

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 470,448; Residential Outdoor: 156,816; Non-Residential Indoor: 60,750; Non-Residential Outdoor: 20,250; Striped Parking Area: 8,160 (Architectural Coating – sqft)

OffRoad Equipment

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

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

Trips and VMT

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	106.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	7,288.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	251.00	56.00	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	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					1.1481	0.0000	1.1481	0.1738	0.0000	0.1738			0.0000			0.0000
Off-Road	2.2222	21.8500	17.7643	0.0293		1.1453	1.1453		1.0676	1.0676		2,822.9090	2,822.9090	0.7557		2,841.8021
Total	2.2222	21.8500	17.7643	0.0293	1.1481	1.1453	2.2934	0.1738	1.0676	1.2414		2,822.9090	2,822.9090	0.7557		2,841.8021

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0578	1.7765	0.4482	5.3100e-003	0.1251	5.8900e-003	0.1310	0.0343	5.6400e-003	0.0399		576.6552	576.6552	0.0393		577.6373
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	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.1293	1.8254	1.0006	6.9200e-003	0.2927	7.2400e-003	0.3000	0.0788	6.8900e-003	0.0856		737.4928	737.4928	0.0440		738.5932

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					0.5166	0.0000	0.5166	0.0782	0.0000	0.0782			0.0000			0.0000
Off-Road	2.2222	21.8500	17.7643	0.0293		1.1453	1.1453		1.0676	1.0676	0.0000	2,822.9090	2,822.9090	0.7557		2,841.8021
Total	2.2222	21.8500	17.7643	0.0293	0.5166	1.1453	1.6620	0.0782	1.0676	1.1458	0.0000	2,822.9090	2,822.9090	0.7557		2,841.8021

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0578	1.7765	0.4482	5.3100e-003	0.1251	5.8900e-003	0.1310	0.0343	5.6400e-003	0.0399		576.6552	576.6552	0.0393		577.6373
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	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.1293	1.8254	1.0006	6.9200e-003	0.2927	7.2400e-003	0.3000	0.0788	6.8900e-003	0.0856		737.4928	737.4928	0.0440		738.5932

3.3 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					5.4890	0.0000	5.4890	2.9202	0.0000	2.9202			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	5.4890	0.7654	6.2544	2.9202	0.7041	3.6243		1,666.5174	1,666.5174	0.5390		1,679.9920

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/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	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432

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					2.4701	0.0000	2.4701	1.3141	0.0000	1.3141			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	2.4701	0.7654	3.2354	1.3141	0.7041	2.0182	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/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	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432

3.4 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					4.7439	0.0000	4.7439	2.5152	0.0000	2.5152			0.0000			0.0000
Off-Road	1.5176	16.4841	9.6032	0.0193		0.7424	0.7424		0.6830	0.6830		1,865.2568	1,865.2568	0.6033		1,880.3383
Total	1.5176	16.4841	9.6032	0.0193	4.7439	0.7424	5.4862	2.5152	0.6830	3.1981		1,865.2568	1,865.2568	0.6033		1,880.3383

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.4 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2070	67.8580	17.1196	0.2030	4.7773	0.2250	5.0023	1.3094	0.2153	1.5247		22,026.5355	22,026.5355	1.5005		22,064.0475
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	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	2.2547	67.8906	17.4878	0.2041	4.8890	0.2259	5.1149	1.3390	0.2161	1.5551		22,133.7607	22,133.7607	1.5036		22,171.3514

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					2.1348	0.0000	2.1348	1.1318	0.0000	1.1318			0.0000			0.0000
Off-Road	1.5176	16.4841	9.6032	0.0193		0.7424	0.7424		0.6830	0.6830	0.0000	1,865.2568	1,865.2568	0.6033		1,880.3383
Total	1.5176	16.4841	9.6032	0.0193	2.1348	0.7424	2.8771	1.1318	0.6830	1.8148	0.0000	1,865.2568	1,865.2568	0.6033		1,880.3383

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.4 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2070	67.8580	17.1196	0.2030	4.7773	0.2250	5.0023	1.3094	0.2153	1.5247		22,026.5355	22,026.5355	1.5005		22,064.0475
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	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	2.2547	67.8906	17.4878	0.2041	4.8890	0.2259	5.1149	1.3390	0.2161	1.5551		22,133.7607	22,133.7607	1.5036		22,171.3514

3.5 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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/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	0.1787	5.4258	1.5723	0.0140	0.3585	0.0115	0.3700	0.1032	0.0110	0.1142		1,497.134 9	1,497.134 9	0.0967		1,499.551 2
Worker	1.1968	0.8186	9.2432	0.0270	2.8056	0.0227	2.8283	0.7441	0.0209	0.7649		2,691.350 2	2,691.350 2	0.0792		2,693.330 1
Total	1.3755	6.2444	10.8155	0.0410	3.1641	0.0341	3.1983	0.8473	0.0319	0.8791		4,188.485 2	4,188.485 2	0.1759		4,192.881 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.220 0	2,001.220 0	0.3573		2,010.151 7
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.220 0	2,001.220 0	0.3573		2,010.151 7

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/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	0.1787	5.4258	1.5723	0.0140	0.3585	0.0115	0.3700	0.1032	0.0110	0.1142		1,497.134 9	1,497.134 9	0.0967		1,499.551 2
Worker	1.1968	0.8186	9.2432	0.0270	2.8056	0.0227	2.8283	0.7441	0.0209	0.7649		2,691.350 2	2,691.350 2	0.0792		2,693.330 1
Total	1.3755	6.2444	10.8155	0.0410	3.1641	0.0341	3.1983	0.8473	0.0319	0.8791		4,188.485 2	4,188.485 2	0.1759		4,192.881 3

3.5 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.542 9	2,001.542 9	0.3486		2,010.258 1
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.542 9	2,001.542 9	0.3486		2,010.258 1

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/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	0.1678	5.1564	1.4883	0.0139	0.3585	0.0100	0.3686	0.1032	9.6000e-003	0.1128		1,483.8336	1,483.8336	0.0933		1,486.1649
Worker	1.1241	0.7393	8.5133	0.0261	2.8056	0.0220	2.8276	0.7441	0.0202	0.7643		2,596.7693	2,596.7693	0.0715		2,598.5569
Total	1.2918	5.8957	10.0016	0.0399	3.1641	0.0320	3.1961	0.8473	0.0298	0.8771		4,080.6029	4,080.6029	0.1648		4,084.7218

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/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	0.1678	5.1564	1.4883	0.0139	0.3585	0.0100	0.3686	0.1032	9.6000e-003	0.1128		1,483.8336	1,483.8336	0.0933		1,486.1649
Worker	1.1241	0.7393	8.5133	0.0261	2.8056	0.0220	2.8276	0.7441	0.0202	0.7643		2,596.7693	2,596.7693	0.0715		2,598.5569
Total	1.2918	5.8957	10.0016	0.0399	3.1641	0.0320	3.1961	0.8473	0.0298	0.8771		4,080.6029	4,080.6029	0.1648		4,084.7218

3.5 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

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3.5 Building Construction - 2023**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	0.1246	3.9054	1.3225	0.0134	0.3585	4.7700e-003	0.3633	0.1032	4.5600e-003	0.1078		1,437.7513	1,437.7513	0.0821		1,439.8037
Worker	1.0590	0.6687	7.8254	0.0251	2.8056	0.0213	2.8269	0.7441	0.0197	0.7637		2,501.7686	2,501.7686	0.0644		2,503.3782
Total	1.1836	4.5740	9.1479	0.0385	3.1641	0.0261	3.1902	0.8473	0.0242	0.8715		3,939.5200	3,939.5200	0.1465		3,943.1819

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023**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	0.1246	3.9054	1.3225	0.0134	0.3585	4.7700e-003	0.3633	0.1032	4.5600e-003	0.1078		1,437.7513	1,437.7513	0.0821		1,439.8037
Worker	1.0590	0.6687	7.8254	0.0251	2.8056	0.0213	2.8269	0.7441	0.0197	0.7637		2,501.7686	2,501.7686	0.0644		2,503.3782
Total	1.1836	4.5740	9.1479	0.0385	3.1641	0.0261	3.1902	0.8473	0.0242	0.8715		3,939.5200	3,939.5200	0.1465		3,943.1819

3.6 Paving - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.6 Paving - 2023**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	0.0549	0.0346	0.4053	1.3000e-003	0.1453	1.1100e-003	0.1464	0.0385	1.0200e-003	0.0396		129.5737	129.5737	3.3300e-003		129.6570
Total	0.0549	0.0346	0.4053	1.3000e-003	0.1453	1.1100e-003	0.1464	0.0385	1.0200e-003	0.0396		129.5737	129.5737	3.3300e-003		129.6570

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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.6 Paving - 2023**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	0.0549	0.0346	0.4053	1.3000e-003	0.1453	1.1100e-003	0.1464	0.0385	1.0200e-003	0.0396		129.5737	129.5737	3.3300e-003		129.6570
Total	0.0549	0.0346	0.4053	1.3000e-003	0.1453	1.1100e-003	0.1464	0.0385	1.0200e-003	0.0396		129.5737	129.5737	3.3300e-003		129.6570

3.7 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	62.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	62.4230	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2023**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	0.2110	0.1332	1.5588	5.0000e-003	0.5589	4.2500e-003	0.5631	0.1482	3.9100e-003	0.1521		498.3603	498.3603	0.0128		498.6809
Total	0.2110	0.1332	1.5588	5.0000e-003	0.5589	4.2500e-003	0.5631	0.1482	3.9100e-003	0.1521		498.3603	498.3603	0.0128		498.6809

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	62.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	62.4230	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2023**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	0.2110	0.1332	1.5588	5.0000e-003	0.5589	4.2500e-003	0.5631	0.1482	3.9100e-003	0.1521		498.3603	498.3603	0.0128		498.6809
Total	0.2110	0.1332	1.5588	5.0000e-003	0.5589	4.2500e-003	0.5631	0.1482	3.9100e-003	0.1521		498.3603	498.3603	0.0128		498.6809

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

The Parks in LA Mixed Use - 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	2.1686	9.0874	24.4960	0.0875	7.5198	0.0689	7.5887	2.0123	0.0641	2.0764		8,922.5550	8,922.5550	0.4668		8,934.2252
Unmitigated	2.4901	10.8185	32.3988	0.1221	10.7426	0.0944	10.8370	2.8748	0.0878	2.9626		12,446.1999	12,446.1999	0.6243		12,461.8064

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,116.95	1,116.95	1116.95	3,816,788	2,671,751
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	126.95	38.13	16.28	317,144	222,001
Regional Shopping Center	382.00	382.00	382.00	826,206	578,344
Total	1,625.90	1,537.08	1,515.23	4,960,138	3,472,096

4.3 Trip Type Information

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
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Regional Shopping Center	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0743	0.6385	0.2942	4.0500e-003		0.0514	0.0514		0.0514	0.0514		810.8967	810.8967	0.0155	0.0149	815.7154
NaturalGas Unmitigated	0.0743	0.6385	0.2942	4.0500e-003		0.0514	0.0514		0.0514	0.0514		810.8967	810.8967	0.0155	0.0149	815.7154

The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	6338.22	0.0684	0.5841	0.2486	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.6735	745.6735	0.0143	0.0137	750.1046
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
General Office Building	442.068	4.7700e-003	0.0433	0.0364	2.6000e-004		3.2900e-003	3.2900e-003		3.2900e-003	3.2900e-003		52.0081	52.0081	1.0000e-003	9.5000e-004	52.3171
Regional Shopping Center	112.329	1.2100e-003	0.0110	9.2500e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004		13.2152	13.2152	2.5000e-004	2.4000e-004	13.2937
Total		0.0743	0.6385	0.2942	4.0600e-003		0.0514	0.0514		0.0514	0.0514		810.8967	810.8967	0.0155	0.0149	815.7154

The Parks in LA Mixed Use - 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					
Apartments High Rise	6.33822	0.0684	0.5841	0.2486	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.6735	745.6735	0.0143	0.0137	750.1046
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
General Office Building	0.442068	4.7700e-003	0.0433	0.0364	2.6000e-004		3.2900e-003	3.2900e-003		3.2900e-003	3.2900e-003		52.0081	52.0081	1.0000e-003	9.5000e-004	52.3171
Regional Shopping Center	0.112329	1.2100e-003	0.0110	9.2500e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004		13.2152	13.2152	2.5000e-004	2.4000e-004	13.2937
Total		0.0743	0.6385	0.2942	4.0600e-003		0.0514	0.0514		0.0514	0.0514		810.8967	810.8967	0.0155	0.0149	815.7154

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

The Parks in LA Mixed Use - 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	6.5891	0.2391	20.7513	1.1000e-003		0.1148	0.1148		0.1148	0.1148	0.0000	37.3699	37.3699	0.0361	0.0000	38.2718
Unmitigated	6.5891	0.2391	20.7513	1.1000e-003		0.1148	0.1148		0.1148	0.1148	0.0000	37.3699	37.3699	0.0361	0.0000	38.2718

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	0.5115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6276	0.2391	20.7513	1.1000e-003		0.1148	0.1148		0.1148	0.1148		37.3699	37.3699	0.0361		38.2718
Total	6.5891	0.2391	20.7513	1.1000e-003		0.1148	0.1148		0.1148	0.1148	0.0000	37.3699	37.3699	0.0361	0.0000	38.2718

The Parks in LA Mixed Use - 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	0.5115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6276	0.2391	20.7513	1.1000e-003		0.1148	0.1148		0.1148	0.1148		37.3699	37.3699	0.0361		38.2718
Total	6.5891	0.2391	20.7513	1.1000e-003		0.1148	0.1148		0.1148	0.1148	0.0000	37.3699	37.3699	0.0361	0.0000	38.2718

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Parks in LA Mixed Use - Los Angeles-South Coast County, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

The Parks in LA Mixed Use
Los Angeles-South Coast County, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.50	1000sqft	0.00	15,500.00	0
Enclosed Parking with Elevator	340.00	Space	0.00	136,000.00	0
Apartments High Rise	251.00	Dwelling Unit	1.45	232,320.00	718
Regional Shopping Center	25.00	1000sqft	0.00	25,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - 1.45 acre site. 251 apt. units 232,320 sf. 25,000 sf retail, 15,500 sf office. 340 parking space garage

Construction Phase - 7 day prep. 36 day grading. 400 day constr. 30 day coating.

Off-road Equipment - Excavator

Off-road Equipment - Excavator

Off-road Equipment -

Trips and VMT - 27 mile haul route

Demolition - 1,073 tons debris disposal

Grading - 58,300 cy export. 1.45 ac. prep

Vehicle Trips - Adjusted per traffic study

Woodstoves - No hearths

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Urban infill development. 173 units/acre, 11% affordable. mixed use residential, commercial, and Live/work units. 0.25 mi. from subway stations. 34 intersections within 0.25 mi.

Area Mitigation -

Waste Mitigation -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	200.00	400.00
tblConstructionPhase	NumDays	4.00	36.00
tblConstructionPhase	NumDays	2.00	7.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	213.35	0.00
tblFireplaces	NumberNoFireplace	25.10	0.00
tblFireplaces	NumberWood	12.55	0.00
tblGrading	AcresOfGrading	13.50	1.50
tblGrading	AcresOfGrading	3.50	1.45
tblGrading	MaterialExported	0.00	58,300.00
tblLandUse	LandUseSquareFeet	251,000.00	232,320.00
tblLandUse	LotAcreage	0.36	0.00
tblLandUse	LotAcreage	3.06	0.00
tblLandUse	LotAcreage	4.05	1.45
tblLandUse	LotAcreage	0.57	0.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblVehicleTrips	ST_TR	4.98	4.45
tblVehicleTrips	ST_TR	49.97	15.28
tblVehicleTrips	SU_TR	3.65	4.45
tblVehicleTrips	SU_TR	25.24	15.28
tblVehicleTrips	WD_TR	4.20	4.45
tblVehicleTrips	WD_TR	11.03	8.19
tblVehicleTrips	WD_TR	42.70	15.28
tblWoodstoves	NumberCatalytic	12.55	0.00
tblWoodstoves	NumberNoncatalytic	12.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0995	1.8603	0.7192	4.5400e-003	0.2089	0.0323	0.2412	0.0827	0.0301	0.1127	0.0000	438.3393	438.3393	0.0435	0.0000	439.4263
2022	0.3672	2.4067	2.9757	8.1400e-003	0.4034	0.0807	0.4841	0.1082	0.0778	0.1860	0.0000	725.2641	725.2641	0.0603	0.0000	726.7718
2023	1.1218	1.1821	1.6101	4.4200e-003	0.2231	0.0400	0.2630	0.0598	0.0385	0.0983	0.0000	393.1685	393.1685	0.0327	0.0000	393.9847
Maximum	1.1218	2.4067	2.9757	8.1400e-003	0.4034	0.0807	0.4841	0.1082	0.0778	0.1860	0.0000	725.2641	725.2641	0.0603	0.0000	726.7718

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0995	1.8603	0.7192	4.5400e-003	0.1450	0.0323	0.1773	0.0512	0.0301	0.0812	0.0000	438.3392	438.3392	0.0435	0.0000	439.4262
2022	0.3672	2.4067	2.9757	8.1400e-003	0.4034	0.0807	0.4841	0.1082	0.0778	0.1860	0.0000	725.2638	725.2638	0.0603	0.0000	726.7715
2023	1.1218	1.1821	1.6101	4.4200e-003	0.2231	0.0400	0.2630	0.0598	0.0385	0.0983	0.0000	393.1683	393.1683	0.0327	0.0000	393.9845
Maximum	1.1218	2.4067	2.9757	8.1400e-003	0.4034	0.0807	0.4841	0.1082	0.0778	0.1860	0.0000	725.2638	725.2638	0.0603	0.0000	726.7715

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	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	7.64	0.00	6.46	12.56	0.00	7.93	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-4-2021	1-3-2022	1.9299	1.9299
2	1-4-2022	4-3-2022	0.6857	0.6857
3	4-4-2022	7-3-2022	0.6876	0.6876
4	7-4-2022	10-3-2022	0.6954	0.6954
5	10-4-2022	1-3-2023	0.6986	0.6986
6	1-4-2023	4-3-2023	0.6103	0.6103
7	4-4-2023	7-3-2023	0.6118	0.6118
8	7-4-2023	9-30-2023	1.0558	1.0558
		Highest	1.9299	1.9299

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1664	0.0299	2.5939	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2377	4.2377	4.0900e-003	0.0000	4.3399
Energy	0.0136	0.1165	0.0537	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	1,431.8537	1,431.8537	0.0332	8.8000e-003	1,435.3072
Mobile	0.4345	1.9670	5.8753	0.0221	1.8826	0.0168	1.8994	0.5046	0.0156	0.5202	0.0000	2,046.2705	2,046.2705	0.1008	0.0000	2,048.7912
Waste						0.0000	0.0000		0.0000	0.0000	31.6930	0.0000	31.6930	1.8730	0.0000	78.5180
Water						0.0000	0.0000		0.0000	0.0000	6.6498	233.2758	239.9255	0.6885	0.0173	262.2836
Total	1.6145	2.1134	8.5229	0.0230	1.8826	0.0405	1.9231	0.5046	0.0394	0.5440	38.3427	3,715.6377	3,753.9804	2.6996	0.0261	3,829.2400

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1664	0.0299	2.5939	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2377	4.2377	4.0900e-003	0.0000	4.3399
Energy	0.0136	0.1165	0.0537	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	1,431.8537	1,431.8537	0.0332	8.8000e-003	1,435.3072
Mobile	0.3766	1.6510	4.4248	0.0159	1.3178	0.0123	1.3301	0.3532	0.0114	0.3646	0.0000	1,468.4980	1,468.4980	0.0752	0.0000	1,470.3772
Waste						0.0000	0.0000		0.0000	0.0000	15.8465	0.0000	15.8465	0.9365	0.0000	39.2590
Water						0.0000	0.0000		0.0000	0.0000	6.6498	233.2758	239.9255	0.6885	0.0173	262.2836
Total	1.5566	1.7974	7.0724	0.0168	1.3178	0.0360	1.3538	0.3532	0.0351	0.3883	22.4962	3,137.8652	3,160.3614	1.7375	0.0261	3,211.5670

	ROG	NOx	CO	SO2	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	3.59	14.95	17.02	27.21	30.00	11.23	29.60	30.00	10.75	28.61	41.33	15.55	15.81	35.64	0.00	16.13

3.0 Construction Detail**Construction Phase**

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	10/29/2021	5	20	
2	Site Preparation	Site Preparation	10/30/2021	11/9/2021	5	7	
3	Grading	Grading	11/10/2021	12/29/2021	5	36	
4	Building Construction	Building Construction	12/30/2021	7/12/2023	5	400	
5	Paving	Paving	7/13/2023	7/26/2023	5	10	
6	Architectural Coating	Architectural Coating	7/27/2023	9/6/2023	5	30	

Acres of Grading (Site Preparation Phase): 1.45

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 470,448; Residential Outdoor: 156,816; Non-Residential Indoor: 60,750; Non-Residential Outdoor: 20,250; Striped Parking Area: 8,160 (Architectural Coating – sqft)

OffRoad Equipment

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

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

Trips and VMT

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	106.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	7,288.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	251.00	56.00	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	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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	tons/yr										MT/yr					
Fugitive Dust					0.0115	0.0000	0.0115	1.7400e-003	0.0000	1.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.2185	0.1776	2.9000e-004		0.0115	0.0115		0.0107	0.0107	0.0000	25.6090	25.6090	6.8600e-003	0.0000	25.7804
Total	0.0222	0.2185	0.1776	2.9000e-004	0.0115	0.0115	0.0229	1.7400e-003	0.0107	0.0124	0.0000	25.6090	25.6090	6.8600e-003	0.0000	25.7804

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3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0181	4.3700e-003	5.0000e-005	1.2300e-003	6.0000e-005	1.2900e-003	3.4000e-004	6.0000e-005	3.9000e-004	0.0000	5.2722	5.2722	3.5000e-004	0.0000	5.2810
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	1.2200e-003	0.0186	0.0100	7.0000e-005	2.8700e-003	7.0000e-005	2.9500e-003	7.8000e-004	7.0000e-005	8.4000e-004	0.0000	6.7556	6.7556	3.9000e-004	0.0000	6.7655

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.1700e-003	0.0000	5.1700e-003	7.8000e-004	0.0000	7.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.2185	0.1776	2.9000e-004		0.0115	0.0115		0.0107	0.0107	0.0000	25.6090	25.6090	6.8600e-003	0.0000	25.7804
Total	0.0222	0.2185	0.1776	2.9000e-004	5.1700e-003	0.0115	0.0166	7.8000e-004	0.0107	0.0115	0.0000	25.6090	25.6090	6.8600e-003	0.0000	25.7804

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3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0181	4.3700e-003	5.0000e-005	1.2300e-003	6.0000e-005	1.2900e-003	3.4000e-004	6.0000e-005	3.9000e-004	0.0000	5.2722	5.2722	3.5000e-004	0.0000	5.2810
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	1.2200e-003	0.0186	0.0100	7.0000e-005	2.8700e-003	7.0000e-005	2.9500e-003	7.8000e-004	7.0000e-005	8.4000e-004	0.0000	6.7556	6.7556	3.9000e-004	0.0000	6.7655

3.3 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	tons/yr										MT/yr					
Fugitive Dust					0.0192	0.0000	0.0192	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4500e-003	0.0610	0.0265	6.0000e-005		2.6800e-003	2.6800e-003		2.4600e-003	2.4600e-003	0.0000	5.2914	5.2914	1.7100e-003	0.0000	5.3342
Total	5.4500e-003	0.0610	0.0265	6.0000e-005	0.0192	2.6800e-003	0.0219	0.0102	2.4600e-003	0.0127	0.0000	5.2914	5.2914	1.7100e-003	0.0000	5.3342

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3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0600e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2769	0.2769	1.0000e-005	0.0000	0.2771
Total	1.2000e-004	9.0000e-005	1.0600e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2769	0.2769	1.0000e-005	0.0000	0.2771

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.6500e-003	0.0000	8.6500e-003	4.6000e-003	0.0000	4.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4500e-003	0.0610	0.0265	6.0000e-005		2.6800e-003	2.6800e-003		2.4600e-003	2.4600e-003	0.0000	5.2914	5.2914	1.7100e-003	0.0000	5.3342
Total	5.4500e-003	0.0610	0.0265	6.0000e-005	8.6500e-003	2.6800e-003	0.0113	4.6000e-003	2.4600e-003	7.0600e-003	0.0000	5.2914	5.2914	1.7100e-003	0.0000	5.3342

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3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0600e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2769	0.2769	1.0000e-005	0.0000	0.2771
Total	1.2000e-004	9.0000e-005	1.0600e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2769	0.2769	1.0000e-005	0.0000	0.2771

3.4 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	tons/yr										MT/yr					
Fugitive Dust					0.0854	0.0000	0.0854	0.0453	0.0000	0.0453	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0273	0.2967	0.1729	3.5000e-004		0.0134	0.0134		0.0123	0.0123	0.0000	30.4584	30.4584	9.8500e-003	0.0000	30.7047
Total	0.0273	0.2967	0.1729	3.5000e-004	0.0854	0.0134	0.0988	0.0453	0.0123	0.0576	0.0000	30.4584	30.4584	9.8500e-003	0.0000	30.7047

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3.4 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0393	1.2448	0.3004	3.6800e-003	0.0845	4.0200e-003	0.0885	0.0232	3.8500e-003	0.0271	0.0000	362.4899	362.4899	0.0241	0.0000	363.0930
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	0.0401	1.2454	0.3072	3.7000e-003	0.0865	4.0400e-003	0.0905	0.0237	3.8600e-003	0.0276	0.0000	364.2700	364.2700	0.0242	0.0000	364.8744

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0384	0.0000	0.0384	0.0204	0.0000	0.0204	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0273	0.2967	0.1729	3.5000e-004		0.0134	0.0134		0.0123	0.0123	0.0000	30.4584	30.4584	9.8500e-003	0.0000	30.7046
Total	0.0273	0.2967	0.1729	3.5000e-004	0.0384	0.0134	0.0518	0.0204	0.0123	0.0327	0.0000	30.4584	30.4584	9.8500e-003	0.0000	30.7046

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3.4 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0393	1.2448	0.3004	3.6800e-003	0.0845	4.0200e-003	0.0885	0.0232	3.8500e-003	0.0271	0.0000	362.4899	362.4899	0.0241	0.0000	363.0930
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	0.0401	1.2454	0.3072	3.7000e-003	0.0865	4.0400e-003	0.0905	0.0237	3.8600e-003	0.0276	0.0000	364.2700	364.2700	0.0242	0.0000	364.8744

3.5 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	tons/yr										MT/yr					
Off-Road	1.8100e-003	0.0136	0.0129	2.0000e-005		6.8000e-004	6.8000e-004		6.6000e-004	6.6000e-004	0.0000	1.8155	1.8155	3.2000e-004	0.0000	1.8236
Total	1.8100e-003	0.0136	0.0129	2.0000e-005		6.8000e-004	6.8000e-004		6.6000e-004	6.6000e-004	0.0000	1.8155	1.8155	3.2000e-004	0.0000	1.8236

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3.5 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	5.5300e-003	1.5000e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3804	1.3804	8.0000e-005	0.0000	1.3825
Worker	1.0800e-003	8.4000e-004	9.4900e-003	3.0000e-005	2.7500e-003	2.0000e-005	2.7700e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4822	2.4822	7.0000e-005	0.0000	2.4840
Total	1.2500e-003	6.3700e-003	0.0110	4.0000e-005	3.1000e-003	3.0000e-005	3.1300e-003	8.3000e-004	3.0000e-005	8.6000e-004	0.0000	3.8626	3.8626	1.5000e-004	0.0000	3.8665

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8100e-003	0.0136	0.0129	2.0000e-005		6.8000e-004	6.8000e-004		6.6000e-004	6.6000e-004	0.0000	1.8155	1.8155	3.2000e-004	0.0000	1.8236
Total	1.8100e-003	0.0136	0.0129	2.0000e-005		6.8000e-004	6.8000e-004		6.6000e-004	6.6000e-004	0.0000	1.8155	1.8155	3.2000e-004	0.0000	1.8236

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3.5 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	5.5300e-003	1.5000e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3804	1.3804	8.0000e-005	0.0000	1.3825
Worker	1.0800e-003	8.4000e-004	9.4900e-003	3.0000e-005	2.7500e-003	2.0000e-005	2.7700e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4822	2.4822	7.0000e-005	0.0000	2.4840
Total	1.2500e-003	6.3700e-003	0.0110	4.0000e-005	3.1000e-003	3.0000e-005	3.1300e-003	8.3000e-004	3.0000e-005	8.6000e-004	0.0000	3.8626	3.8626	1.5000e-004	0.0000	3.8665

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778
Total	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778

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3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0212	0.6826	0.1843	1.8300e-003	0.0459	1.2800e-003	0.0471	0.0132	1.2200e-003	0.0145	0.0000	177.8734	177.8734	0.0106	0.0000	178.1390
Worker	0.1317	0.0987	1.1369	3.4400e-003	0.3576	2.8600e-003	0.3604	0.0950	2.6300e-003	0.0976	0.0000	311.3407	311.3407	8.5700e-003	0.0000	311.5551
Total	0.1529	0.7813	1.3212	5.2700e-003	0.4034	4.1400e-003	0.4076	0.1082	3.8500e-003	0.1121	0.0000	489.2141	489.2141	0.0192	0.0000	489.6940

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775
Total	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775

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3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0212	0.6826	0.1843	1.8300e-003	0.0459	1.2800e-003	0.0471	0.0132	1.2200e-003	0.0145	0.0000	177.8734	177.8734	0.0106	0.0000	178.1390
Worker	0.1317	0.0987	1.1369	3.4400e-003	0.3576	2.8600e-003	0.3604	0.0950	2.6300e-003	0.0976	0.0000	311.3407	311.3407	8.5700e-003	0.0000	311.5551
Total	0.1529	0.7813	1.3212	5.2700e-003	0.4034	4.1400e-003	0.4076	0.1082	3.8500e-003	0.1121	0.0000	489.2141	489.2141	0.0192	0.0000	489.6940

3.5 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1051	0.8080	0.8702	1.5200e-003		0.0355	0.0355		0.0343	0.0343	0.0000	125.3034	125.3034	0.0213	0.0000	125.8353
Total	0.1051	0.8080	0.8702	1.5200e-003		0.0355	0.0355		0.0343	0.0343	0.0000	125.3034	125.3034	0.0213	0.0000	125.8353

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3.5 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3600e-003	0.2737	0.0878	9.4000e-004	0.0243	3.2000e-004	0.0247	7.0300e-003	3.1000e-004	7.3300e-003	0.0000	91.4541	91.4541	4.9800e-003	0.0000	91.5787
Worker	0.0657	0.0474	0.5549	1.7600e-003	0.1898	1.4700e-003	0.1913	0.0504	1.3600e-003	0.0518	0.0000	159.2031	159.2031	4.1000e-003	0.0000	159.3056
Total	0.0741	0.3211	0.6427	2.7000e-003	0.2141	1.7900e-003	0.2159	0.0574	1.6700e-003	0.0591	0.0000	250.6572	250.6572	9.0800e-003	0.0000	250.8842

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1051	0.8080	0.8702	1.5200e-003		0.0355	0.0355		0.0343	0.0343	0.0000	125.3033	125.3033	0.0213	0.0000	125.8352
Total	0.1051	0.8080	0.8702	1.5200e-003		0.0355	0.0355		0.0343	0.0343	0.0000	125.3033	125.3033	0.0213	0.0000	125.8352

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3.5 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3600e-003	0.2737	0.0878	9.4000e-004	0.0243	3.2000e-004	0.0247	7.0300e-003	3.1000e-004	7.3300e-003	0.0000	91.4541	91.4541	4.9800e-003	0.0000	91.5787
Worker	0.0657	0.0474	0.5549	1.7600e-003	0.1898	1.4700e-003	0.1913	0.0504	1.3600e-003	0.0518	0.0000	159.2031	159.2031	4.1000e-003	0.0000	159.3056
Total	0.0741	0.3211	0.6427	2.7000e-003	0.2141	1.7900e-003	0.2159	0.0574	1.6700e-003	0.0591	0.0000	250.6572	250.6572	9.0800e-003	0.0000	250.8842

3.6 Paving - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329

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3.6 Paving - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	2.0800e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.5975	0.5975	2.0000e-005	0.0000	0.5979
Total	2.5000e-004	1.8000e-004	2.0800e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.5975	0.5975	2.0000e-005	0.0000	0.5979

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329

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3.6 Paving - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	2.0800e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.5975	0.5975	2.0000e-005	0.0000	0.5979
Total	2.5000e-004	1.8000e-004	2.0800e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.5975	0.5975	2.0000e-005	0.0000	0.5979

3.7 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.9363	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.7 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8500e-003	2.0500e-003	0.0240	8.0000e-005	8.2200e-003	6.0000e-005	8.2800e-003	2.1800e-003	6.0000e-005	2.2400e-003	0.0000	6.8943	6.8943	1.8000e-004	0.0000	6.8987
Total	2.8500e-003	2.0500e-003	0.0240	8.0000e-005	8.2200e-003	6.0000e-005	8.2800e-003	2.1800e-003	6.0000e-005	2.2400e-003	0.0000	6.8943	6.8943	1.8000e-004	0.0000	6.8987

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.9363	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.7 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8500e-003	2.0500e-003	0.0240	8.0000e-005	8.2200e-003	6.0000e-005	8.2800e-003	2.1800e-003	6.0000e-005	2.2400e-003	0.0000	6.8943	6.8943	1.8000e-004	0.0000	6.8987
Total	2.8500e-003	2.0500e-003	0.0240	8.0000e-005	8.2200e-003	6.0000e-005	8.2800e-003	2.1800e-003	6.0000e-005	2.2400e-003	0.0000	6.8943	6.8943	1.8000e-004	0.0000	6.8987

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3766	1.6510	4.4248	0.0159	1.3178	0.0123	1.3301	0.3532	0.0114	0.3646	0.0000	1,468.4980	1,468.4980	0.0752	0.0000	1,470.3772
Unmitigated	0.4345	1.9670	5.8753	0.0221	1.8826	0.0168	1.8994	0.5046	0.0156	0.5202	0.0000	2,046.2705	2,046.2705	0.1008	0.0000	2,048.7912

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,116.95	1,116.95	1116.95	3,816,788	2,671,751
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	126.95	38.13	16.28	317,144	222,001
Regional Shopping Center	382.00	382.00	382.00	826,206	578,344
Total	1,625.90	1,537.08	1,515.23	4,960,138	3,472,096

4.3 Trip Type Information

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
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Regional Shopping Center	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,297.6007	1,297.6007	0.0307	6.3400e-003	1,300.2563
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,297.6007	1,297.6007	0.0307	6.3400e-003	1,300.2563
NaturalGas Mitigated	0.0136	0.1165	0.0537	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	134.2530	134.2530	2.5700e-003	2.4600e-003	135.0508
NaturalGas Unmitigated	0.0136	0.1165	0.0537	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	134.2530	134.2530	2.5700e-003	2.4600e-003	135.0508

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	2.31345e+006	0.0125	0.1066	0.0454	6.8000e-004		8.6200e-003	8.6200e-003		8.6200e-003	8.6200e-003	0.0000	123.4546	123.4546	2.3700e-003	2.2600e-003	124.1882
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	161355	8.7000e-004	7.9100e-003	6.6400e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.6105	8.6105	1.7000e-004	1.6000e-004	8.6617
Regional Shopping Center	41000	2.2000e-004	2.0100e-003	1.6900e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1879	2.1879	4.0000e-005	4.0000e-005	2.2009
Total		0.0136	0.1165	0.0537	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	134.2531	134.2531	2.5800e-003	2.4600e-003	135.0508

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	2.31345e+006	0.0125	0.1066	0.0454	6.8000e-004		8.6200e-003	8.6200e-003		8.6200e-003	8.6200e-003	0.0000	123.4546	123.4546	2.3700e-003	2.2600e-003	124.1882
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	161355	8.7000e-004	7.9100e-003	6.6400e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.6105	8.6105	1.7000e-004	1.6000e-004	8.6617
Regional Shopping Center	41000	2.2000e-004	2.0100e-003	1.6900e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1879	2.1879	4.0000e-005	4.0000e-005	2.2009
Total		0.0136	0.1165	0.0537	7.4000e-004		9.3700e-003	9.3700e-003		9.3700e-003	9.3700e-003	0.0000	134.2531	134.2531	2.5800e-003	2.4600e-003	135.0508

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	993980	553.6087	0.0131	2.7100e-003	554.7417
Enclosed Parking with Elevator	796960	443.8761	0.0105	2.1700e-003	444.7845
General Office Building	201345	112.1414	2.6500e-003	5.5000e-004	112.3709
Regional Shopping Center	337500	187.9745	4.4400e-003	9.2000e-004	188.3592
Total		1,297.6007	0.0306	6.3500e-003	1,300.2564

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	993980	553.6087	0.0131	2.7100e-003	554.7417
Enclosed Parking with Elevator	796960	443.8761	0.0105	2.1700e-003	444.7845
General Office Building	201345	112.1414	2.6500e-003	5.5000e-004	112.3709
Regional Shopping Center	337500	187.9745	4.4400e-003	9.2000e-004	188.3592
Total		1,297.6007	0.0306	6.3500e-003	1,300.2564

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1664	0.0299	2.5939	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2377	4.2377	4.0900e-003	0.0000	4.3399
Unmitigated	1.1664	0.0299	2.5939	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2377	4.2377	4.0900e-003	0.0000	4.3399

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0934					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0785	0.0299	2.5939	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2377	4.2377	4.0900e-003	0.0000	4.3399
Total	1.1664	0.0299	2.5939	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2377	4.2377	4.0900e-003	0.0000	4.3399

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0934					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0785	0.0299	2.5939	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2377	4.2377	4.0900e-003	0.0000	4.3399
Total	1.1664	0.0299	2.5939	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2377	4.2377	4.0900e-003	0.0000	4.3399

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	239.9255	0.6885	0.0173	262.2836
Unmitigated	239.9255	0.6885	0.0173	262.2836

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	16.3537 / 10.3099	187.5844	0.5372	0.0135	205.0294
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.75487 / 1.68847	31.3009	0.0905	2.2700e-003	34.2390
Regional Shopping Center	1.85181 / 1.13498	21.0403	0.0608	1.5200e-003	23.0153
Total		239.9255	0.6885	0.0173	262.2836

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	16.3537 / 10.3099	187.5844	0.5372	0.0135	205.0294
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.75487 / 1.68847	31.3009	0.0905	2.2700e-003	34.2390
Regional Shopping Center	1.85181 / 1.13498	21.0403	0.0608	1.5200e-003	23.0153
Total		239.9255	0.6885	0.0173	262.2836

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.8465	0.9365	0.0000	39.2590
Unmitigated	31.6930	1.8730	0.0000	78.5180

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	115.46	23.4373	1.3851	0.0000	58.0650
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	14.42	2.9271	0.1730	0.0000	7.2518
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
Total		31.6930	1.8730	0.0000	78.5180

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	57.73	11.7187	0.6926	0.0000	29.0325
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	7.21	1.4636	0.0865	0.0000	3.6259
Regional Shopping Center	13.125	2.6643	0.1575	0.0000	6.6006
Total		15.8465	0.9365	0.0000	39.2590

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

The Parks in LA Mixed Use - Los Angeles-South Coast County, Annual

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

11.0 Vegetation

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

8th and Hobart Existing Use

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.15	1,800.00	3
Regional Shopping Center	22.00	1000sqft	1.30	22,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Existing 22,000 sq ft commercial. 1 sf home .015 ac lot

Construction Phase - No Construction. Existing use only

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - No Construction. Existing Use only

Vehicle Trips - Adjusted per traffic study

Woodstoves - No hearth

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	4.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	0.85	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.05	0.00
tblLandUse	LotAcreage	0.32	0.15
tblLandUse	LotAcreage	0.51	1.30
tblVehicleTrips	ST_TR	49.97	16.95
tblVehicleTrips	ST_TR	9.91	7.00
tblVehicleTrips	SU_TR	25.24	16.95
tblVehicleTrips	SU_TR	8.62	7.00
tblVehicleTrips	WD_TR	42.70	16.95
tblVehicleTrips	WD_TR	9.52	7.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

8th and Hobart Existing Use - 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	0.5330	9.8000e-004	0.0852	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1534	0.1534	1.6000e-004	0.0000	0.1573
Energy	1.8800e-003	0.0166	0.0111	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4919	20.4919	3.9000e-004	3.8000e-004	20.6137
Mobile	0.7092	3.1717	8.0575	0.0229	1.7661	0.0276	1.7936	0.4727	0.0259	0.4986		2,323.8776	2,323.8776	0.1471		2,327.5537
Total	1.2441	3.1893	8.1538	0.0230	1.7661	0.0294	1.7954	0.4727	0.0277	0.5004	0.0000	2,344.5229	2,344.5229	0.1476	3.8000e-004	2,348.3248

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5330	9.8000e-004	0.0852	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1534	0.1534	1.6000e-004	0.0000	0.1573
Energy	1.8800e-003	0.0166	0.0111	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4919	20.4919	3.9000e-004	3.8000e-004	20.6137
Mobile	0.7092	3.1717	8.0575	0.0229	1.7661	0.0276	1.7936	0.4727	0.0259	0.4986		2,323.8776	2,323.8776	0.1471		2,327.5537
Total	1.2441	3.1893	8.1538	0.0230	1.7661	0.0294	1.7954	0.4727	0.0277	0.5004	0.0000	2,344.5229	2,344.5229	0.1476	3.8000e-004	2,348.3248

8th and Hobart Existing Use - 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	Demolition	Demolition	6/26/2019	6/25/2019	5	0	
2	Site Preparation	Site Preparation	7/24/2019	7/23/2019	5	0	
3	Grading	Grading	7/26/2019	7/25/2019	5	0	
4	Building Construction	Building Construction	8/1/2019	7/31/2019	5	0	
5	Paving	Paving	5/7/2020	5/6/2020	5	0	
6	Architectural Coating	Architectural Coating	5/21/2020	5/20/2020	5	0	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 33,000; Non-Residential Outdoor: 11,000; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

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

Trips and VMT

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	7.00	4.00	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	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.2 Demolition - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.2 Demolition - 2019

Mitigated Construction Off-Site

[illegible]

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2019

Mitigated Construction Off-Site

[illegible]

3.4 Grading - 2019

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.4 Grading - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.4 Grading - 2019

Mitigated Construction Off-Site

[illegible]

3.5 Building Construction - 2019

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2019

Mitigated Construction Off-Site

[illegible]

3.6 Paving - 2020

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.6 Paving - 2020

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.6 Paving - 2020

Mitigated Construction Off-Site

[illegible]

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2020**Mitigated Construction Off-Site**

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

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

8th and Hobart Existing Use - 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	0.7092	3.1717	8.0575	0.0229	1.7661	0.0276	1.7936	0.4727	0.0259	0.4986		2,323.8776	2,323.8776	0.1471		2,327.5537
Unmitigated	0.7092	3.1717	8.0575	0.0229	1.7661	0.0276	1.7936	0.4727	0.0259	0.4986		2,323.8776	2,323.8776	0.1471		2,327.5537

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	372.90	372.90	372.90	806,525	806,525
Single Family Housing	7.00	7.00	7.00	23,920	23,920
Total	379.90	379.90	379.90	830,445	830,445

4.3 Trip Type Information

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
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Single Family Housing	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.8800e-003	0.0166	0.0111	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4919	20.4919	3.9000e-004	3.8000e-004	20.6137
NaturalGas Unmitigated	1.8800e-003	0.0166	0.0111	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4919	20.4919	3.9000e-004	3.8000e-004	20.6137

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

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					
Regional Shopping Center	98.8493	1.0700e-003	9.6900e-003	8.1400e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004		11.6293	11.6293	2.2000e-004	2.1000e-004	11.6984
Single Family Housing	75.3322	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153
Total		1.8800e-003	0.0166	0.0111	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4919	20.4919	3.9000e-004	3.7000e-004	20.6137

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					
Regional Shopping Center	0.0988493	1.0700e-003	9.6900e-003	8.1400e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004		11.6293	11.6293	2.2000e-004	2.1000e-004	11.6984
Single Family Housing	0.0753322	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153
Total		1.8800e-003	0.0166	0.0111	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4919	20.4919	3.9000e-004	3.7000e-004	20.6137

6.0 Area Detail**6.1 Mitigation Measures Area**

8th and Hobart Existing Use - 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	0.5330	9.8000e-004	0.0852	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1534	0.1534	1.6000e-004	0.0000	0.1573
Unmitigated	0.5330	9.8000e-004	0.0852	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1534	0.1534	1.6000e-004	0.0000	0.1573

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	0.0590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7500e-003	9.8000e-004	0.0852	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1534	0.1534	1.6000e-004		0.1573
Total	0.5330	9.8000e-004	0.0852	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1534	0.1534	1.6000e-004	0.0000	0.1573

8th and Hobart Existing Use - 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	0.0590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7500e-003	9.8000e-004	0.0852	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1534	0.1534	1.6000e-004		0.1573
Total	0.5330	9.8000e-004	0.0852	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1534	0.1534	1.6000e-004	0.0000	0.1573

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

8th and Hobart Existing Use - Los Angeles-South Coast County, Winter

Fire Pumps and Emergency Generators

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

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

User Defined Equipment

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

11.0 Vegetation

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

8th and Hobart Existing Use

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.15	1,800.00	3
Regional Shopping Center	22.00	1000sqft	1.30	22,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Existing 22,000 sq ft commercial. 1 sf home .015 ac lot

Construction Phase - No Construction. Existing use only

Off-road Equipment -

Grading - No Construction. Existing Use only

Demolition -

Trips and VMT -

Vehicle Trips - Adjusted per traffic study

Woodstoves - No hearth

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	4.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	0.00
tblConstructionPhase	PhaseEndDate	6/3/2020	5/20/2020
tblConstructionPhase	PhaseEndDate	5/6/2020	7/31/2019
tblConstructionPhase	PhaseEndDate	7/23/2019	6/25/2019
tblConstructionPhase	PhaseEndDate	7/31/2019	7/25/2019
tblConstructionPhase	PhaseEndDate	5/20/2020	5/6/2020
tblConstructionPhase	PhaseEndDate	7/25/2019	7/23/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	0.85	0.00

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.05	0.00
tblLandUse	LotAcreage	0.32	0.15
tblLandUse	LotAcreage	0.51	1.30
tblVehicleTrips	ST_TR	49.97	16.95
tblVehicleTrips	ST_TR	9.91	7.00
tblVehicleTrips	SU_TR	25.24	16.95
tblVehicleTrips	SU_TR	8.62	7.00
tblVehicleTrips	WD_TR	42.70	16.95
tblVehicleTrips	WD_TR	9.52	7.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0971	1.2000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0174	0.0174	2.0000e-005	0.0000	0.0178
Energy	3.4000e-004	3.0400e-003	2.0200e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	100.5645	100.5645	4.0800e-003	8.9000e-004	100.9323
Mobile	0.1253	0.5880	1.4798	4.2300e-003	0.3152	4.9900e-003	0.3202	0.0845	4.6900e-003	0.0892	0.0000	389.4676	389.4676	0.0241	0.0000	390.0707
Waste						0.0000	0.0000		0.0000	0.0000	4.9388	0.0000	4.9388	0.2919	0.0000	12.2356
Water						0.0000	0.0000		0.0000	0.0000	0.5377	10.7121	11.2498	0.0557	1.4000e-003	13.0573
Total	0.2227	0.5912	1.4925	4.2500e-003	0.3152	5.2900e-003	0.3205	0.0845	4.9900e-003	0.0895	5.4764	500.7616	506.2380	0.3758	2.2900e-003	516.3136

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0971	1.2000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0174	0.0174	2.0000e-005	0.0000	0.0178
Energy	3.4000e-004	3.0400e-003	2.0200e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	100.5645	100.5645	4.0800e-003	8.9000e-004	100.9323
Mobile	0.1253	0.5880	1.4798	4.2300e-003	0.3152	4.9900e-003	0.3202	0.0845	4.6900e-003	0.0892	0.0000	389.4676	389.4676	0.0241	0.0000	390.0707
Waste						0.0000	0.0000		0.0000	0.0000	4.9388	0.0000	4.9388	0.2919	0.0000	12.2356
Water						0.0000	0.0000		0.0000	0.0000	0.5377	10.7121	11.2498	0.0557	1.4000e-003	13.0573
Total	0.2227	0.5912	1.4925	4.2500e-003	0.3152	5.2900e-003	0.3205	0.0845	4.9900e-003	0.0895	5.4764	500.7616	506.2380	0.3758	2.2900e-003	516.3136

	ROG	NOx	CO	SO2	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**

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/26/2019	6/25/2019	5	0	
2	Site Preparation	Site Preparation	7/24/2019	7/23/2019	5	0	
3	Grading	Grading	7/26/2019	7/25/2019	5	0	
4	Building Construction	Building Construction	8/1/2019	7/31/2019	5	0	
5	Paving	Paving	5/7/2020	5/6/2020	5	0	
6	Architectural Coating	Architectural Coating	5/21/2020	5/20/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 33,000; Non-Residential Outdoor: 11,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

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

Trips and VMT

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

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
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	7.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	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
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.2 Demolition - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.2 Demolition - 2019

Mitigated Construction Off-Site

[illegible]

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.3 Site Preparation - 2019

Mitigated Construction Off-Site

[illegible]

3.4 Grading - 2019

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.4 Grading - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.4 Grading - 2019

Mitigated Construction Off-Site

[illegible]

3.5 Building Construction - 2019

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.5 Building Construction - 2019

Mitigated Construction Off-Site

[illegible]

3.6 Paving - 2020

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.6 Paving - 2020

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.6 Paving - 2020

Mitigated Construction Off-Site

[illegible]

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

3.7 Architectural Coating - 2020**Mitigated Construction Off-Site**

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

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1253	0.5880	1.4798	4.2300e-003	0.3152	4.9900e-003	0.3202	0.0845	4.6900e-003	0.0892	0.0000	389.4676	389.4676	0.0241	0.0000	390.0707
Unmitigated	0.1253	0.5880	1.4798	4.2300e-003	0.3152	4.9900e-003	0.3202	0.0845	4.6900e-003	0.0892	0.0000	389.4676	389.4676	0.0241	0.0000	390.0707

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	372.90	372.90	372.90	806,525	806,525
Single Family Housing	7.00	7.00	7.00	23,920	23,920
Total	379.90	379.90	379.90	830,445	830,445

4.3 Trip Type Information

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
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Single Family Housing	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	97.1718	97.1718	4.0100e-003	8.3000e-004	97.5194
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	97.1718	97.1718	4.0100e-003	8.3000e-004	97.5194
NaturalGas Mitigated	3.4000e-004	3.0400e-003	2.0200e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.3927	3.3927	7.0000e-005	6.0000e-005	3.4128
NaturalGas Unmitigated	3.4000e-004	3.0400e-003	2.0200e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.3927	3.3927	7.0000e-005	6.0000e-005	3.4128

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Regional Shopping Center	36080	1.9000e-004	1.7700e-003	1.4900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9254	1.9254	4.0000e-005	4.0000e-005	1.9368
Single Family Housing	27496.3	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4673	1.4673	3.0000e-005	3.0000e-005	1.4760
Total		3.4000e-004	3.0400e-003	2.0300e-003	2.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	3.3927	3.3927	7.0000e-005	7.0000e-005	3.4128

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Regional Shopping Center	36080	1.9000e-004	1.7700e-003	1.4900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9254	1.9254	4.0000e-005	4.0000e-005	1.9368
Single Family Housing	27496.3	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4673	1.4673	3.0000e-005	3.0000e-005	1.4760
Total		3.4000e-004	3.0400e-003	2.0300e-003	2.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	3.3927	3.3927	7.0000e-005	7.0000e-005	3.4128

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	297000	94.6306	3.9100e-003	8.1000e-004	94.9691
Single Family Housing	7975.71	2.5412	1.0000e-004	2.0000e-005	2.5503
Total		97.1718	4.0100e-003	8.3000e-004	97.5194

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	297000	94.6306	3.9100e-003	8.1000e-004	94.9691
Single Family Housing	7975.71	2.5412	1.0000e-004	2.0000e-005	2.5503
Total		97.1718	4.0100e-003	8.3000e-004	97.5194

6.0 Area Detail**6.1 Mitigation Measures Area**

8th and Hobart Existing Use - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0971	1.2000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0174	0.0174	2.0000e-005	0.0000	0.0178
Unmitigated	0.0971	1.2000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0174	0.0174	2.0000e-005	0.0000	0.0178

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	1.2000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0174	0.0174	2.0000e-005	0.0000	0.0178
Total	0.0971	1.2000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0174	0.0174	2.0000e-005	0.0000	0.0178

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	1.2000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0174	0.0174	2.0000e-005	0.0000	0.0178
Total	0.0971	1.2000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0174	0.0174	2.0000e-005	0.0000	0.0178

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.2498	0.0557	1.4000e-003	13.0573
Unmitigated	11.2498	0.0557	1.4000e-003	13.0573

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	1.6296 / 0.998784	10.8134	0.0535	1.3400e-003	12.5514
Single Family Housing	0.065154 / 0.0410754	0.4364	2.1400e-003	5.0000e-005	0.5059
Total		11.2498	0.0557	1.3900e-003	13.0573

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	1.6296 / 0.998784	10.8134	0.0535	1.3400e-003	12.5514
Single Family Housing	0.065154 / 0.0410754	0.4364	2.1400e-003	5.0000e-005	0.5059
Total		11.2498	0.0557	1.3900e-003	13.0573

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.9388	0.2919	0.0000	12.2356
Unmitigated	4.9388	0.2919	0.0000	12.2356

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	23.1	4.6891	0.2771	0.0000	11.6170
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
Total		4.9388	0.2919	0.0000	12.2356

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	23.1	4.6891	0.2771	0.0000	11.6170
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
Total		4.9388	0.2919	0.0000	12.2356

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
