Appendix A

Air Quality Study

City of Long Beach

Shoreline Gateway East Tower Project

Air Quality Study

August 2016

rincon

Environmental Scientists Planners Engineers

AIR QUALITY STUDY

SHORELINE GATEWAY EAST TOWER PROJECT

Prepared for:

City of Long Beach
Planning and Building Department
333 W. Ocean Boulevard, 5th Floor
Long Beach, California 90802

Prepared by:

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Ventura, California 93003

August 2016

This report prepared on 50% recycled paper with 50% post-consumer content.

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SHORELINE GATEWAY EAST TOWER PROJECT
CITY OF LONG BEACH
AIR QUALITY STUDY

This report is an analysis of the potential air quality impacts of the proposed Shoreline Gateway East Tower Project (Proposed Project) located in the City of Long Beach. The report has been prepared by Rincon Consultants, Inc. for use by the City of Long Beach, in support of the environmental documentation being prepared pursuant to the California Environmental Quality Act (CEQA). The purpose of this study is to analyze the Proposed Project's air quality emissions and the associated impacts. This analysis considers both the air quality impacts that would result from temporary Project construction and potential long-term air quality impacts associated with the location and operation of the Project.

PROJECT DESCRIPTION

The Shoreline Gateway East Tower project (Proposed Project) is a revision to a previously approved 221-unit residential tower at the same location, 777 East Ocean Boulevard in the City of Long Beach, California. The Proposed Project was originally reviewed as part of the Shoreline Gateway Environmental Impact Report (2006 Shoreline EIR), which was certified in 2006. The 2006 EIR evaluated three multi-family residential buildings, ranging from 10 to 22 stories tall, and totaling 358 dwelling units. In 2007, a Supplemental Shoreline Gateway EIR was certified, changing one of the buildings to be 35 stories tall, with the total unit count remaining 358 units. That same year, the Planning Commission approved the Shoreline Gateway Master Plan, along with the Site Plan Review for the 35-story east tower, with 221 units and 6,267 square feet (SF) of retail/restaurant space, in accordance with the Shoreline Gateway Supplemental EIR (Approved Project).

In May 2013, the City's Planning Commission approved the 17-story West Tower, with 224 units, with a finding of "previously assessed" in accordance with the Shoreline Gateway Supplemental EIR and the Downtown Plan Program EIR (the West Tower is now complete, but only 223 units, with 9,182 SF of retail/restaurant space, was constructed). This changed the overall development total for Shoreline Gateway from 358 to 445 units, an increase of 87 units, or 24% from what was previously analyzed.

The Proposed Project includes development of a 35-story mixed-use residential tower with 315 residential units, approximately 6,700 SF of neighborhood-serving retail space, approximately 125,200 SF of common and core areas, and approximately 161,700 SF in five levels of subterranean parking space. The Proposed Project involves an additional 94 units, as compared to the Approved Project, and includes related infrastructure and landscaping.

The Proposed Project is consistent with the City's Downtown Plan and Downtown Plan EIR, but the EIR response to comments for the Downtown Plan explicitly states that the Proposed Project would not tier off of that document without subsequent California Environmental Quality Act (CEQA) review.

Similar to the Approved Project, construction of the Proposed Project would occur in a single phase over an estimated 30 month construction schedule. Project grading and excavation is estimated to occur over a four to five month time period and would include the use of pile drivers, dump trucks for soil removal, and semi-trucks for equipment delivery. Pile driving during grading and excavation would be located around the perimeter of the building footprint. Building erection would occur over approximately 22 months and would include the use of a heavy crane for lifting materials and formwork during building erection, cement trucks for foundations and deck erection, and semi-trucks for equipment and window delivery. Building completion would occur over the last four months of the 30-month construction phase and would include the use of semi-trucks for equipment drywall delivery, and finish materials.

The Proposed Project is part of the first LEED-ND Gold campus plan and would be developed as a healthy living community. As such, the Proposed Project would be designed to include delivery of fresh air into every unit (ECODUCT), low flow water plumbing fixtures, energy efficient stainless steel appliances, large operable and energy efficient windows, resident and retail patron/guest Electric Vehicle Charging stations, recycled content building materials, low to non-VOC paint and adhesive materials, and bicycle parking. Additionally, LED lighting would be utilized throughout the project site and an estimated minimum of 80 percent of the construction material waste would be recycled. The tower would have a fully integrated cistern, shared with the adjacent tower (The Current) that collects all rainwater on site and re-uses it for the project's drip irrigation that waters the buildings low water-use and native drought tolerant plants. The Proposed Project would be a transit oriented development with a proposed active bus line directly adjacent to a large public/private plaza, and located within a ten-minute walk to the Metro Blue Line as well as walking/biking paths.

Upon completion of the Proposed Project, Shoreline Gateway would consist of two residential towers with a total of 538 units and 15,983 SF retail/restaurant floor area. When compared to the original Shoreline Gateway development, the combined development totals of the East and West Towers result in an increase of 180 dwelling units and 2,422 SF of retail/restaurant floor area over what was evaluated in the Shoreline Gateway EIR. The potential air quality impacts associated with the approved West Tower (i.e. 223 units and 9,182 SF of retail/restaurant space) are considered within the cumulative air quality analysis, as the West Tower project is a related cumulative project.

AIR QUALITY BACKGROUND

Local Climate and Meteorology

The project site is located in the City of Long Beach, which is part of the South Coast Air Basin (Basin) and under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

Air quality in the Basin is affected by various emission sources (mobile and industry, etc.) as well as atmospheric conditions such as wind speed, wind direction, temperature, and rainfall, etc. The combination of topography, low mixing height, abundant sunshine, and emissions from the second largest urban area in the United States give the Basin the worst air pollution problem in the nation.

The majority of annual rainfall in the Basin occurs between November and April. Summer rainfall is minimal and is generally limited to scattered thunder showers in coastal regions and slightly heavier showers in the eastern portion of the Basin and along the coastal side of the mountains. The Long Beach Weather Service Contract Meteorological Observatory (WSCMO) Station climatological station monitored precipitation from April 1958 to March 2013. Average monthly rainfall measured in Long Beach during that period varied from 2.90 inches in February to 0.42 inch or less between May and October, with an annual total of 12.01 inches.

The Basin experiences a persistent temperature inversion (increasing temperature with increasing altitude). This inversion limits the vertical dispersion of air contaminants, holding them relatively near the ground. As the sun warms the ground and the lower air layer, the temperature of the lower air layer approaches the temperature of the base of the inversion (upper) layer until the inversion layer finally breaks, allowing vertical mixing with the lower layer. This phenomenon is observed in mid to late afternoons on hot summer days. Winter inversions frequently break by midmorning.

The combination of stagnant wind conditions and low inversions produces the greatest pollutant concentrations. On days of no inversion or high wind speeds, ambient air pollutant concentrations are lowest. During periods of low inversions and low wind speeds, air pollutants generated in urbanized areas are transported predominantly onshore into Riverside and San Bernardino counties. In the winter, the greatest pollution problem is the accumulation of carbon monoxide (CO) and nitrogen oxides (NO_X) due to low inversions and air stagnation during the night and early morning hours. In the summer, the longer daylight hours and the brighter sunshine combine to cause a reaction between hydrocarbons and NO_X to form photochemical smog.

Air Quality Regulation

Pursuant to the federal Clean Air Act (CAA) of 1970, the U.S. Environmental Protection Agency (U.S. EPA) established national ambient air quality standards (NAAQS). The NAAQS were established for six major pollutants termed “criteria” pollutants, which are those pollutants for which the federal and State governments have established AAQS, or criteria, for outdoor concentrations in order to protect public health. The current AAQS plus the California standards (which are generally more stringent than federal standards) are shown in Table 1.

Table 1
Current Federal and State Ambient Air Quality Standards

Pollutant	Federal Standard	California Standard
Ozone	0.070 ppm (8-hr avg)	0.09 ppm (1-hr avg) 0.07 ppm (8-hr avg)
Carbon Monoxide	9.0 ppm (8-hr avg) 35.0 ppm (1-hr avg)	9.0 ppm (8-hr avg) 20.0 ppm (1-hr avg)
Nitrogen Dioxide	0.053 ppm (annual avg)	0.18 ppm (1-hr avg) 0.030 ppm (annual avg)
Sulfur Dioxide	0.14 ppm (24-hr avg) 0.075 ppm (1-hr avg)	0.04 ppm (24-hr avg) 0.25 ppm (1-hr avg)
Lead	1.5 $\mu g/m^3$ (3-month avg)	1.5 $\mu g/m^3$ (30-day avg)
Particulate Matter (PM_{10})	150 $\mu g/m^3$ (24-hr avg)	20 $\mu g/m^3$ (annual avg) 50 $\mu g/m^3$ (24-hr avg)
Particulate Matter ($PM_{2.5}$)	12 $\mu g/m^3$ (annual avg) 35 $\mu g/m^3$ (24-hr avg)	12 $\mu g/m^3$ (annual avg)

ppm= parts per million
$\mu g/m^3$ = micrograms per cubic meter
Source: California Air Resources Board, http://www.arb.ca.gov/research/aaqs/aaqs2.pdf, 2016.

The U.S. EPA uses data collected at permanent monitoring stations to classify regions as "attainment" or "nonattainment," depending on whether the regions met the requirements stated in the primary NAAQS. Nonattainment areas are imposed with additional restrictions as required by the U.S. EPA.

The U.S. EPA established new national air quality standards for ground-level ozone and fine particulate matter in 1997. On May 14, 1999, the Court of Appeals for the District of Columbia Circuit issued a decision ruling that the CAA, as applied in setting the new public health standards for ozone and particulate matter, was unconstitutional and an improper delegation of legislative authority to the U.S. EPA. On February 27, 2001, the U.S. Supreme Court upheld the way the government sets air quality standards under the CAA. The Court unanimously rejected industry arguments that the U.S. EPA must consider financial costs as well as health benefits in writing standards. The justices also rejected arguments that the U.S. EPA took too much lawmaking power from Congress when it set tougher standards for ozone and soot in 1997. Nevertheless, the court dismissed the U.S. EPA's policy for implementing new ozone rules, saying that the agency ignored a section of the law that restricts its authority to enforce such rules.

In April 2003, the White House Office of Management and Budget (OMB) cleared the U.S. EPA to implement the 8-hour ground-level ozone standard. The U.S. EPA issued the proposed rule implementing the 8-hour ozone standard in April 2003. The U.S. EPA completed final 8-hour nonattainment status on April 15, 2004. The U.S. EPA revoked the 1-hour ozone standard on June 15, 2005, and lowered the 8-hour O_3 standard from 0.08 parts per million (ppm) to 0.075 ppm on April 1, 2008. The U.S. EPA issued the final $PM_{2.5}$ implementation rule in fall 2004. The U.S. EPA lowered the 24-hour $PM_{2.5}$ standard from 65 to 35 micrograms per cubic meter ($\mu g/m_3$) and revoked the annual PM_{10} standard on December 17, 2006. The U.S. EPA issued final designations for the 2006 24-hour $PM_{2.5}$ standard on December 12, 2008.

Descriptions of the criteria pollutants follow:

Ozone

O_3 (smog) is formed by photochemical reactions between oxides of nitrogen and reactive organic gases rather than being directly emitted. Ozone is a pungent, colorless gas typical of Southern California smog. Elevated ozone concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors such as the sick, the elderly, and young children. Ozone levels peak during summer and early fall. The entire Basin is designated as a nonattainment area for the State 1-hour and 8-hour ozone standards. The U.S. EPA has officially designated the status for the Basin regarding the 8-hour ozone standard as "Extreme." The Basin has until 2024 to attain the federal 8-hour O_3 standard.

Carbon Monoxide

CO is formed by the incomplete combustion of fossil fuels, almost entirely from automobiles. It is a colorless odorless gas that can cause dizziness, fatigue, and impairment to central nervous system functions. The entire Basin is in attainment for the State standards for CO. The Basin is designated as an "Attainment/Maintenance" area under the federal CO standards.

Nitrogen Oxides

Nitrogen dioxide (NO_2), a reddish-brown gas, and nitric oxide (NO), a colorless odorless gas, is formed from fuel combustion under high temperature or pressure. These compounds are referred to as nitrogen oxides, or NO_X. NO_X is a primary component of the photochemical smog reaction. It also contributes to other pollution problems, including a high concentration of fine particulate matter, poor visibility, and acid deposition (i.e., acid rain). NO_2 decreases lung function and may reduce resistance to infection. The entire Basin is designated as nonattainment for the State NO_2 standard and as an "Attainment/Maintenance" area under the federal NO_2 standard.

Sulfur Dioxide

Sulfur dioxide (SO_2) is a colorless irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous SO_2 levels. SO_2 irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight. The entire Basin is in attainment for both federal and State SO_2 standards.

Lead

Lead is found in old paints and coatings, plumbing, and a variety of other materials. Once in the blood stream, lead can cause damage to the brain, nervous system, and other body systems. Children are highly susceptible to the effects of lead. The Los Angeles County portion of the Basin was re-designated as nonattainment for the State and federal standards for lead in 2010.

Particulate Matter

Particulate matter is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse particles (particulate matter less than 10 microns in diameter [PM_{10}]), derive from a variety of sources, including windblown dust and grinding operations. Fuel combustion

and resultant exhaust from power plants, diesel buses and trucks are primarily responsible for fine particle ($PM_{2.5}$) levels. Fine particles can also be formed in the atmosphere through chemical reactions. PM_{10} can accumulate in the respiratory system and aggravate health problems such as asthma. The U.S. EPA's scientific review concluded that $PM_{2.5,}$ which penetrates deeply into the lungs, is more likely than PM_{10} to contribute to the health effects listed in a number of recently published community epidemiological studies at concentrations that extend well below those allowed by the current PM_{10} standards. These health effects include premature death; increased hospital admissions and emergency room visits (primarily the elderly and individuals with cardiopulmonary disease); increased respiratory symptoms and disease (children and individuals with cardiopulmonary disease such as asthma); decreased lung functions (particularly in children and individuals with asthma); and alterations in lung tissue and structure and in respiratory tract defense mechanisms. The Basin is a nonattainment area for the State PM_{10} and $PM_{2.5}$ standards and a nonattainment area for the federal $PM_{2.5}$ standards. The Basin was redesignated as attainment/maintenance for the federal PM_{10} standard in 2013.

Reactive Organic Compounds

Reactive organic compounds (ROCs; also known as Reactive Organic Gases [ROGs] and volatile organic compounds [VOCs]) are formed from combustion of fuels and evaporation of organic solvents. ROCs are not defined criteria pollutants but are a prime component of the photochemical smog reaction. Consequently, ROCs accumulate in the atmosphere more quickly during the winter when sunlight is limited and photochemical reactions are slower.

Sulfates

Sulfates occur in combination with metal and/or hydrogen ions. In California, emissions of sulfur compounds occur primarily from the combustion of petroleum-derived fuels (e.g., gasoline and diesel fuel) that contain sulfur. This sulfur is oxidized to SO_2 during the combustion process and subsequently converted to sulfate compounds in the atmosphere. The conversion of SO_2 to sulfates takes place comparatively rapidly and completely in urban areas of California due to regional meteorological features. The entire Basin is in attainment for the State standard for sulfates.

Hydrogen Sulfide

Hydrogen sulfide (H_2S) is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. Also, it can be present in sewer gas and some natural gas and can be emitted as the result of geothermal energy exploitation. In 1984, a California Air Resources Board (CARB) committee concluded that the ambient standard for H_2S is adequate to protect public health and to significantly reduce odor annoyance. The state standard for outdoor levels of hydrogen sulfide is 30 parts per billion averaged over one hour (SCAQMD, 2015).The entire Basin is unclassified for the State standard for H_2S.

Visibility-Reducing Particles

Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size, and chemical composition, and can be made up of many different materials such as metals, soot, soil, dust, and salt. The statewide standard is intended to limit the frequency and severity of visibility

impairment due to regional haze. The entire Basin is unclassified for the State standard for visibility-reducing particles.

State Regulations/Standards

In 1967, the California Legislature passed the Mulford-Carrell Act, which combined two Department of Health bureaus (the Bureau of Air Sanitation and the Motor Vehicle Pollution Control Board) to establish the CARB. The CARB coordinates and oversees both State and federal air pollution control programs in California. It also oversees activities of local air quality management agencies and maintains air quality monitoring stations throughout the State in conjunction with the U.S. EPA and local air districts. The CARB has divided the State into 15 air basins based on meteorological and topographical factors of air pollution.

The CARB identified particulate emissions from diesel-fueled engines (diesel particulate matter [DPM]) as toxic air contaminants (TACs) in August 1998. Following the identification process, CARB was required by law to determine whether there is a need for further control. In September 2000, the CARB adopted the Diesel Risk Reduction Plan (Diesel RRP), which recommends many control measures to reduce the risks associated with DPM and to achieve the goal of 85 percent DPM reduction by 2020.

California Green Building Code

California Green Buildings Standards Code (Cal Green Code) (California Code of Regulations [CCR], Title 24, Part 11) was adopted by the California Building Standards Commission in 2010 and became effective in January 2011 and was updated in 2013. The Code applies to all new constructed residential, nonresidential, commercial, mixed-use, and State-owned facilities, as well as schools and hospitals. Cal Green Code is comprised of Mandatory Residential and Nonresidential Measures and more stringent Voluntary Measures (TIERs I and II).

Mandatory Measures are required to be implemented on all new construction projects and consist of a wide array of green measures concerning project site design, water use reduction, improvement of indoor air quality, and conservation of materials and resources. The Cal Green Building Code refers to Title 24, Part 6 compliance with respect to energy efficiency; however, it encourages 15 percent energy use reduction over that required in Part 6. Voluntary Measures are optional, more stringent measures may be used by jurisdictions to enhance their commitment towards green and sustainable design and achievement of Assembly Bill (AB) 32 goals. Under TIERs I and II, all new construction projects are required to reduce energy consumption by 15 percent and 30 percent, respectively, below the baseline required under the California Energy Commission (CEC), as well as implement more stringent green measures than those required by mandatory code.

Local Regulations and Policies

Local regulations and policies related to air quality are described below.

Regional Air Quality Planning Framework

The 1976 Lewis Air Quality Management Act established the SCAQMD and other air districts throughout the State. The federal CAA Amendments of 1977 required that each state adopt an implementation plan outlining pollution control measures to attain the federal standards in

nonattainment areas of the state. The CARB is responsible for incorporating air quality management plans for local air basins into a State Implementation Plan (SIP) for U.S. EPA approval. Significant authority for air quality control within the local air basins has been given to local air districts that regulate stationary source emissions and develop local nonattainment plans.

Regional Air Quality Management Plan

The SCAQMD and the Southern California Association of Governments (SCAG) are responsible for formulating and implementing the Air Quality Management Plan (AQMP) for the Basin. Every 3 years, the SCAQMD prepares a new AQMP, updating the previous plan and having a 20-year horizon. The SCAQMD adopted the Final 2012 AQMP on December 7, 2012 and forwarded it to the CARB for review in February 2013. The 2012 AQMP includes the new and changing federal requirements, implementation of new technology measures, and the continued development of economically sound, flexible compliance approaches.

Currently, the SCAQMD is initiating an early development process for the 2016 AQMP, which will be a comprehensive and integrated Plan primarily focused on addressing the ozone standards. The Plan will be a regional and multi-agency effort (SCAQMD, CARB, SCAG, and U.S. EPA). State and federal planning requirements include developing control strategies, attainment demonstrations, reasonable further progress, and maintenance plans. The 2016 AQMP will incorporate the latest scientific and technical information and planning assumptions, including the latest applicable growth assumptions, Regional Transportation Plan/Sustainable Communities Strategy, and updated emission inventory methodologies for various source categories.

SCAQMD Rules and Regulations

All projects are subject to SCAQMD rules and regulations in effect at the time of construction. Specific rules applicable to the construction anticipated under the Plan may include the following:

> **Rule 401 – Visible Emissions.** A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than 3 minutes in any 1 hour that is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines.
>
> **Rule 403 – Fugitive Dust.** This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent, reduce, or mitigate fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust.
>
> **Rule 1113 – Architectural Coatings.** No person shall apply or solicit the application of any architectural coating within the SCAQMD with VOC content in excess of the values specified in a table incorporated in the Rule.

City of Long Beach General Plan

The Air Quality Element (1996) of the Long Beach General Plan includes goals and policies related to air quality. The following goals and policies are applicable to the Proposed Project:

- ***Goal 6:*** *Minimize particulate emissions from the construction and operation of roads and buildings, from mobile sources, and from the transportation, handling and storage of materials.*
- ***Policy 6.1:*** *Control Dust. Further reduce particulate emissions from roads, parking lots, construction sites, unpaved alleys, and port operations and related uses.*
- ***Goal 7:*** *Reduce emissions through reduced energy consumption.*
- ***Policy 7.1:*** *Energy Conservation. Reduce energy consumption through conservation improvements and requirements.*

Current Air Quality

The SCAQMD, together with the CARB, maintains ambient air quality monitoring stations in the Basin. The air quality monitoring station closest to the site is the Long Beach station (located at 2425 Webster Street), and its air quality trends are representative of the ambient air quality in the project area. The pollutants monitored at this station are ozone, nitrogen dioxide, and carbon monoxide. Data for particulate matter ($PM_{2.5}$) is from the second nearest station (South Long Beach, located at 1305 East Pacific Coast Highway) to the project site. Table 2 summarizes the ambient air quality levels measured at these stations between 2013 and 2015.

The pollutant that exceeded thresholds during the monitoring period was $PM_{2.5}$. The $PM_{2.5}$ standard was exceeded one times in 2013, two times in 2014, and four times in 2015.

Table 2
Ambient Air Quality at the
Long Beach - 2425 Webster Street Monitoring Station

Pollutant	2013	2014	2015
Ozone (ppm), Worst Hour	0.090	0.087	0.087
Number of days of State exceedances (>0.09 ppm)	0	0	0
Number of days of Federal exceedances (>0.12 ppm)	0	0	0
Nitrogen Dioxide (ppb) - Worst Hour	81.2	135.9	101.8
Number of days of State exceedances (>0.25 ppm)	0	0	0
Carbon Monoxide (ppm), Highest 8-Hour Average	*	*	*
Number of days of above State or Federal standard (>9.0 ppm)	*	*	*
Particulate Matter <2.5 microns, $\mu g/m^3$, Worst 24 Hours[1]	42.9	52.2	48.3
Number of days above Federal standard (>35 $\mu g/m^3$)	1	2	4

1. Data collected for the 2425 Webster Avenue, Long Beach monitoring station
** There was insufficient (or no) data available to determine the value.*
Source: ARB Top Four Summary available at http://www.arb.ca.gov/adam/topfour/topfour1.php

Air Quality Management Plan

Under state law, the SCAQMD is required to prepare a plan for air quality improvement for pollutants for which the District is in non-compliance. The SCAQMD updates the plan every three years. Each new version of the SCAQMD's Air Quality Management Plan (AQMP) is an update of the previous plan and has a 20-year horizon. SCAQMD staff is currently developing the 2016 AQMP. The 2012 AQMP incorporates new scientific data and notable regulatory actions that have occurred since adoption of the 2007 AQMP. The SCAQMD adopted the 2012 AQMP in February 2013.

The Final 2012 AQMP also addresses several state and federal planning requirements, incorporating new scientific information, primarily in the form of updated emissions inventories, ambient measurements, and new meteorological air quality models. This Plan builds upon the approaches taken in the 2007 AQMP for the South Coast Air Basin for the attainment of federal PM and ozone standards, and highlights the significant amount of reductions needed and the urgent need to engage in interagency coordinated planning to identify additional strategies, especially in the area of mobile sources, to meet all federal criteria pollutant standards within the timeframes allowed under the federal Clean Air Act. The Final 2012 AQMP also includes a discussion of the emerging issues of ultrafine particle and near-roadway exposures, an analysis of the energy supply and demand issues that face the Basin and their relationship to air quality. The Plan also includes new demonstrations of 1-hour ozone attainment and vehicle miles travelled (VMT) emissions offsets, as per recent U.S. EPA requirements.

Sensitive Receptors

Ambient air quality standards have been established to represent the levels of air quality considered sufficient, with an adequate margin of safety, to protect public health and welfare. They are designed to protect that segment of the public most susceptible to respiratory distress, such as children under 14; the elderly over 65; persons engaged in strenuous work or exercise; and people with cardiovascular and chronic respiratory diseases. The majority of sensitive receptor locations are therefore, schools and hospitals. Sensitive receptors likely to be affected by air quality impacts associated with project construction include residential areas near the project site. Nearby residential uses are primarily condominium and apartment style housing. Complexes include the International Tower complex approximately 250 feet southwest, Long Beach Towers approximately 350 feet southwest, Villa Riviera approximately 230 feet southeast, and The Pacific approximately 400 feet southeast of the project site. The nearest residences are apartments adjacent to the project site located approximately 50 feet north of the project site and are the nearest sensitive receptor. Another sensitive receptor near the project site is St. Mary Medical Center of Long Beach, approximately 0.9 miles from the project site. The closest school is St. Anthony High School, approximately 0.5 miles north from the project site.

Previous Environmental Review

The September 2006 Shoreline Gateway Project EIR (Shoreline EIR) examined the air quality setting and potential air quality impacts from development of the Approved Project. The Shoreline EIR concluded that short-term construction activities and long-term operation of the

Approved Project could result in significant air quality impacts. Several mitigation measures were included in the Shoreline EIR to reduce air quality impacts; however NO_X emissions during project construction would remain significant.

The Proposed Project would generate short-term air pollutant emissions associated with construction, as well as long-term operations, which would contribute to the emissions impacts determined in the Shoreline EIR and the significant and unavoidable NO_X emissions impacts. Emissions from the Proposed Project have the potential to contribute to an existing project air quality violation or result in a cumulatively considerable net increase of criteria pollutants for which the region is in non-attainment.

Construction of the Proposed Project would be subject to Shoreline EIR Mitigation Measure AQ-1, which requires compliance with SCAQMD Rule 403 and Rule 402, with measures to reduce fugitive dust emissions. Mitigation Measure AQ-2 requires construction equipment vehicles to be maintained in good condition and set to the manufacturer's specifications. The Proposed Project would also be subject to Mitigation Measure AQ-3 which involves measures to avoid equipment idling for more than two minutes, and Mitigation Measure AQ-4 which requires compliance with SCAQMD Rule 1113 to reduce ROG emissions from architectural coating. Finally, the Proposed Project would comply with Mitigation Measure AQ-5 which includes the use of electric- or diesel-powered stationary equipment where feasible, turning off equipment when not in use, and conducting construction so that it does not interfere with peak hour traffic.

The Proposed Project would also be subject to mitigation measures AQ-6 through AQ-8 related to operational emissions. Mitigation Measure AQ-6 involves applying for a *Special Application for Temporary Emergency Authorization to Operate Electric Backup Generator(s) During Involuntary Power Service Interruptions Permit* prior to installation of emergency back up generators. Mitigation Measure AQ-7 requires the project to meet California Title 24 Energy Efficiency standards and Mitigation Measures AQ-8 requires all fixtures used for lighting of exterior common areas to be regulated by automatic devices to turn lights off when they are not needed.

The Shoreline EIR determined that impacts from local mobile-source CO emissions associated with implementation of the Approved Project would be less than significant and that NO_X emissions from project construction would remain significant and unavoidable.

IMPACT ANALYSIS

Methodology and Significance Thresholds

This air quality analysis conforms to the methodologies recommended in the SCAQMD's *CEQA Air Quality Handbook* (1993). The handbook includes thresholds for emissions associated with both construction and operation of the project.

For the purposes of this analysis, the Approved Project is used as the baseline for the analysis as it represents what is currently permitted for development at the project site today. Emissions calculations were completed in CalEEMod for the Approved Project as well as the Proposed Project in order to provide an "apples to apples" comparison of emissions. Each project's emissions and the difference in emissions generated between the Approved Project and Proposed Project were then compared to SCAQMD significance thresholds. The Approved

Project included a 221-unit residential tower with a restaurant, whereas the Proposed Project includes 35-story mixed use tower with retail. The Proposed Project would therefore result in an increase in 94 residential units.

The construction schedule for the Approved Project and Proposed Project was assumed to be the same at approximately 30 months. Approximately four to five months of the Proposed Project construction would consist of grading and excavation. Grading and excavation are expected to require approximately 73,000 cubic yards (CY) of soil. Building erection would occur over the next approximately 22 months. Building completion would occur over the last four months of the 30-month construction phase. The Shoreline EIR found that the Approved Project would have a significant and unavoidable impact resulting from construction due to NO_X emissions.

Construction equipment that would generate criteria air pollutants includes excavators, graders, dump trucks, and loaders. Some of this equipment would be used during grading activities as well as when structures are constructed. It is assumed that all construction equipment used would be diesel-powered. The regional construction emissions associated with development of the Proposed Project were calculated using the California Emissions Estimator Model (CalEEMod) software developed for the SCAQMD by estimating the types and number of pieces of equipment that would be used on-site during each of the construction phases. These construction emissions are analyzed using the regional thresholds established by the SCAQMD and published in the *CEQA Air Quality Handbook*.

Project construction would generate temporary air pollutant emissions. These impacts are associated with fugitive dust (PM_{10} and $PM_{2.5}$) and exhaust emissions from heavy construction vehicles and soil hauling trucks, in addition to ROG that would be released during the drying phase upon application of architectural coatings. Construction would generally consist of grading, erection of the proposed buildings, paving, and architectural coating. As the project site is currently developed with a parking lot, no site preparation (i.e., vegetation clearing and grubbing) would be necessary.

The grading phase involves the greatest amount of heavy equipment and the greatest generation of fugitive dust. For the purposes of construction emissions modeling, it was assumed that the Approved Project and Proposed Project would comply with SCAQMD Rule 403, which is required by the Shoreline EIR Mitigation Measure AQ-1. Rule 403 identifies measures to reduce fugitive dust and is required to be implemented at all construction sites located within the South Coast Air Basin. Therefore, the following conditions, which would be required to reduce fugitive dust in compliance with SCAQMD Rule 403, were included in CalEEMod for the site preparation and grading phases of construction.

1. **Minimization of Disturbance.** Construction contractors should minimize the area disturbed by clearing, grading, earth moving, or excavation operations to prevent excessive amounts of dust.
2. **Soil Treatment.** Construction contractors should treat all graded and excavated material, exposed soil areas, and active portions of the construction site, including unpaved on-site roadways to minimize fugitive dust. Treatment shall include, but not necessarily be limited to, periodic

watering, application of environmentally safe soil stabilization materials, and/or roll compaction as appropriate. Watering shall be done as often as necessary, and at least twice daily, preferably in the late morning and after work is done for the day.

3. **Soil Stabilization.** Construction contractors should monitor all graded and/or excavated inactive areas of the construction site at least weekly for dust stabilization. Soil stabilization methods, such as water and roll compaction, and environmentally safe dust control materials, shall be applied to portions of the construction site that are inactive for over four days. In addition, a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide, shall be utilized to remove bulk material from tires and vehicle undercarriages before vehicles exit the site. If no further grading or excavation operations are planned for the area, the area shall be seeded and watered until landscape growth is evident, or periodically treated with environmentally safe dust suppressants, to prevent excessive fugitive dust.
4. **No Grading During High Winds.** Construction contractors should stop all clearing, grading, earth moving, and excavation operations during periods of high winds (20 miles per hour or greater, as measured continuously over a one-hour period).
5. **Street Sweeping.** Construction contractors should sweep all on-site driveways and adjacent streets and roads at least once per day, preferably at the end of the day, if visible soil material is carried over to adjacent streets and roads.

The architectural coating phase involves the greatest release of ROG. The emissions modeling also included the use of low-VOC paint (150 g/L for non-flat coatings) as required by SCAQMD Rule 1113 for both the Approved and Proposed Projects and as required by Shoreline EIR Mitigation Measure AQ-4.

Operational emissions associated with Approved Project and Proposed Project on-site development were estimated using CalEEMod. Operational emissions include mobile source emissions, energy emissions, and area source emissions. Mobile source emissions are generated by the increase in motor vehicle trips to and from the project site associated with operation of on-site development. The Approved Project would generate an estimated 3,080 daily trips, while the Proposed Project would generate an estimated 3,105 daily trips. Emissions attributed to energy use include natural gas consumption for space and water heating. Area source emissions are generated by landscape maintenance equipment, consumer products and architectural coating. To determine whether a regional air quality impact would occur, the net increase in emissions were compared with the SCAQMD's recommended regional thresholds for operational emissions. The Approved and Proposed Project traffic generation rates from the Traffic Impact Analysis prepared by Linscott, Law & Greenspan, Engineers (LLG) (2016) were used for the operational emissions calculations.

Regulatory Compliance Measures and Project Design Features

The Proposed Project would comply with all applicable regulatory standards. In addition to SCAQMD Rule 403 and Rule 1113, the Proposed Project would comply with SCAQMD Rule 401 and all other applicable provisions of the District. In addition, the Proposed Project would integrate an active bus line directly adjacent to a large public/private plaza, and would be situated within a five-minute walk to the Metro Blue Line and walking/biking paths, making it a transit oriented development. Transient oriented developments are intended to reduce vehicle trips and miles traveled, thereby reducing vehicle related emissions.

Regional Thresholds

To determine whether a proposed project would have a significant impact to air quality, Appendix G of the *CEQA Guidelines* asks whether a project would:

a) *Conflict with or obstruct implementation of the applicable air quality plan;*
b) *Violate any air quality standard or contribute substantially to an existing or projected air quality violation;*
c) *Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors);*
d) *Expose sensitive receptors to substantial pollutant concentrations; or*
e) *Create objectionable odors affecting a substantial number of people.*

The SCAQMD has developed specific numeric thresholds that apply to projects within the South Coast Air Basin. The SCAQMD has established the following significance thresholds for temporary construction activities within the South Coast Air Basin:

- *75 pounds per day of ROG*
- *100 pounds per day of* NO_X
- *550 pounds per day of CO*
- *150 pounds per day of* SO_X
- *150 pounds per day of* PM_{10}
- *55 pounds per day of* $PM_{2.5}$

The SCAQMD has also established the following significance thresholds for long-term project operation within the South Coast Air Basin:

- *55 pounds per day of ROG*
- *55 pounds per day of* NO_X
- *550 pounds per day of CO*
- *150 pounds per day of* SO_X
- *150 pounds per day of* PM_{10}
- *55 pounds per day of* $PM_{2.5}$

Localized Significance Thresholds

In addition to the above thresholds, the SCAQMD has developed Localized Significance Thresholds (LSTs) in response to the Governing Board's Environmental Justice Enhancement Initiative (1-4), which was prepared to update the *CEQA Air Quality Handbook*. LSTs were devised in response to concern regarding exposure of individuals to criteria pollutants in local communities. LSTs represent the maximum emissions from a project that will not cause or contribute to an air quality exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area (SRA), project size, distance to the sensitive receptor, etc. However, LSTs only apply to emissions within a fixed stationary location, including idling emissions during project construction. LSTs have been developed for NO_X, CO, PM_{10} and $PM_{2.5}$. LSTs are not applicable to mobile sources such as cars on a roadway (SCAQMD, 2003). As such, LSTs for operational emissions do not apply to on-site development, as the majority of emissions would be generated by cars on the roadways.

LSTs have been developed for emissions within construction areas up to five acres in size. The SCAQMD provides lookup tables for project sites that measure one, two, or five acres. The project site is approximately 0.6 acre and is located in Source Receptor Area 4 (SRA-4) (SCAQMD, 2008). LSTs for construction on a 0.6-acre site in SRA-4 are shown in Table 3. LSTs are provided for receptors at a distance of 82 to 1,640 feet (25 to 500 meters) from the project site boundary. As described above, the sensitive receptors immediately adjacent to the project site are multi-family residences located approximately 50 feet north of the site. According to the SCAQMD's publication Final Localized Significant (LST) Thresholds Methodology, projects with boundaries located closer than 82 feet to the nearest receptor should use the LSTs for receptors located at 82 feet.

Table 3
SCAQMD LSTs for Construction (SRA-4)

Pollutant	Allowable emissions from a 0.6-acre site in SRA-4 for a receptor 82 feet (25 meters) away
Gradual conversion of NO_x to NO_2	57
CO	585
PM_{10}	4
$PM_{2.5}$	3

Source: SCAQMD, October 2009.

Construction Impacts

Table 4 shows the estimated maximum daily emissions of pollutants for the Proposed Project during each year of the construction period with compliance with the above described requirements. As shown therein, the Proposed Project's emissions would not exceed SCAQMD's regional or local significance thresholds for any pollutant.

Table 4
Estimated Construction Maximum Daily Air Pollutant Emissions (lbs/day) for the Proposed Project

Construction Year	Maximum Emissions (lbs/day)					
	ROG	NO_x	CO	SO_X	PM_{10}	$PM_{2.5}$
2017						
Maximum lbs/day	2.9	31.1	31.1	0.1	4.7	1.9
Maximum On-site lbs/day	n/a	15	10.6	n/a	1.1	1
2018						
Maximum lbs/day	22.9	19.2	33.7	0.1	5.4	2.1
Maximum On-site lbs/day	n/a	11	7.7	n/a	0.7	0.6
2019						
Maximum lbs/day	23.5	25.1	39.7	0.1	5.9	2.4
Maximum On-site lbs/day	n/a	7.7	7.1	n/a	0.4	0.4
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Local Significance Thresholds[1] (LSTs) (On-site only)	**n/a**	**57**	**585**	**n/a**	**4**	**3**
Thresholds Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: All calculations were made using CalEEMod. See the Appendix for calculations. Grading, Paving, Building Construction and Architectural Coating totals include worker trips, soil export hauling trips, construction vehicle emissions and fugitive dust. Numbers may not add up due to rounding.
1. LSTs are for a 0.6-acre project in SRA-4 within a distance of 82 feet (25 meters) from the site boundary. See Table 3.

Table 5 shows the estimated maximum daily emissions of pollutants for the Approved Project during each year of the construction period with compliance with the above described requirements. Table 6 shows the net difference between construction emissions generated from the Proposed Project and the Approved Project and if the emissions exceed significance thresholds.

Table 5
Estimated Construction Maximum Daily Air Pollutant Emissions (lbs/day) for the Approved Project

Construction Year	Maximum Emissions (lbs/day)					
	ROG	NO_x	CO	SO_X	PM_{10}	$PM_{2.5}$
2017						
2017 Maximum lbs/day	2.6	26.5	26.2	0.1	6.3	2.2
2017 Maximum On-site lbs/day	n/a	12.7	8.6	n/a	1.3	1
2018						
2018 Maximum lbs/day	17.1	18.0	28.6	0.1	7.2	2.5
2018 Maximum On-site lbs/day	n/a	11	7.7	n/a	0.7	0.6
2019						
2019 Maximum lbs/day	17.7	24.1	34.9	0.1	7.9	2.9
2019 Maximum On-site lbs/day	n/a	7.7	7.1	n/a	0.4	0.4

Notes: All calculations were made using CalEEMod. See the Appendix for calculations. Grading, Paving, Building Construction and Architectural Coating totals include worker trips, soil export hauling trips, construction vehicle emissions and fugitive dust. Numbers may not add up due to rounding.

Table 6
Net Difference in Construction Maximum Daily Air Pollutant Emissions (lbs/day)

Construction Year	Maximum Emissions (lbs/day; Proposed minus Approved)					
	ROG	NO_x	CO	SO_X	PM_{10}	$PM_{2.5}$
2017 Maximum lbs/day	0.3	4.6	4.9	0	-1.6	-0.3
2018 Maximum lbs/day	5.8	1.2	5.1	0	-1.8	-0.4
2019 Maximum lbs/day	5.8	1.0	4.8	0	-2.0	-0.5
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
2017 Maximum On-site lbs/day	n/a	2.3	2.0	n/a	-0.2	0
2018 Maximum On-site lbs/day	n/a	0	0	n/a	0	0
2019 Maximum On-site lbs/day	n/a	0	0	n/a	0	0
Local Significance Thresholds[1] (LSTs) (On-site only)	**n/a**	**57**	**585**	**n/a**	**4**	**3**
Threshold Exceeded?	**n/a**	**No**	**No**	**n/a**	**No**	**No**

Notes: All calculations were made using CalEEMod. See the Appendix for calculations. Grading, Paving, Building Construction and Architectural Coating totals include worker trips, soil export hauling trips, construction vehicle emissions and fugitive dust. Numbers may not add up due to rounding.
1. LSTs are for a 0.6-acre project in SRA-4 within a distance of 82 feet (25 meters) from the site boundary. See Table 3.

As shown in Table 6, the net difference in construction emissions between the Approved Project and the Proposed Project would not exceed SCAQMD's regional or local significance thresholds. Short-term air quality impacts in the Shoreline EIR were considered potentially significant. Mitigation measures AQ-1 through AQ-5 were included in the EIR requiring the project to comply with SCAQMD rules and regulations and the applicant to consult with the City prior to grading activities. With implementation of mitigation measures AQ-1 through AQ-5, the Shoreline EIR determined that short-term air quality emissions would be less than significant, except for emissions of NO_X which would be significant and unavoidable impact. The Proposed Project would slightly increase short-term air quality impacts, but emissions, including NO_X emissions, would remain below SCAQMD thresholds.

Long-Term Regional Impacts

AQMP Consistency

A project may be inconsistent with the AQMP if it would generate population, housing, or employment growth exceeding the forecasts used in the development of the AQMP. The 2012 AQMP, the most recent AQMP adopted by the SCAQMD, incorporates local city general plans and the Southern California Association of Government's (SCAG) Regional Transportation Plan socioeconomic forecast projections of regional population, housing and employment growth.

The Proposed Project involves the construction of 94 additional residential units, as compared to the Approved Project. The additional units would cause a direct increase in the City's

population. According to data provided by the California Department of Finance (DOF), the estimated population of the City of Los Angeles is 484,958 and the average persons per household is 2.84 (DOF, 2016). Because the Proposed Project would involve the construction of an additional 94 dwelling units, it could potentially add 267 residents (94 dwelling units x 2.84 people/dwelling unit). SCAG forecasts that the population of the City of Long Beach will increase by 28,800 new residents between 2008 and 2020, for a total of 491,000 residents in 2020 and further increase by 43,100 new residents between 2020 and 2035, for a total of 534,100 residents in 2035 (SCAG, 2012). The addition of 267 new residents to the City of Long Beach would equal less than 1 percent of the City's total projected population growth through 2020 and the City's total projected population growth through 2035. The level of population growth associated with the Proposed Project was anticipated in SCAG's long-term population forecasts and would not exceed official regional population projections. Therefore, the Proposed Project would not generate growth beyond AQMP forecasts. The Proposed Project would be consistent with the AQMP and this impact would be less than significant.

Carbon Monoxide Hotspot Analysis

Areas with high vehicle density, such as congested intersections, have the potential to create high concentrations of CO, known as CO hotspots. A project's localized air quality impact is considered significant if CO emissions create a hotspot where either the California one-hour standard of 20 ppm or the federal and state eight-hour standard of 9.0 ppm is exceeded. This typically occurs at severely congested intersections (level of service [LOS] E or worse). Pursuant to SCAQMD guidance, a CO hotspot analysis should be conducted for intersections where the project would have a significant impact at a signalized intersection, causing the LOS to change to E or F, or when the volume to capacity ratio (V/C) increases by 2% or more as a result of a proposed project for intersections rated D or worse (SCAQMD, 2003).

The Proposed Project is forecast to result in a net increase of 46 vehicle trips (nine inbound trips and 37 outbound trips) during the AM peak hour and a net increase of 59 vehicles trips (38 inbound trips and 21 outbound trips) during the PM peak hour (LLG, 2016)as compared to the Approved Project. As discussed in Traffic Impact Anlaysis, this level of increase at area intersections is not expected to result in the LOS for signalized intersections to change to E or F, or an increase in V/C by 2% or more for intersections rated D or worse (LLG 2016). In addition, as shown in Table 7, net operational CO emissions from the Proposed Project are well below SCAQMD regional thresholds. Therefore, the Proposed Project would not result in a decrease in LOS at any local intersections, and would not result in a CO hotspot.

Operational Air Pollutant Emissions

Operational emissions associated with the Approved Project and the Proposed Project were estimated using CalEEMod. Table 7 summarizes the net increase in emissions associated with development of the Proposed Project, in comparison to the Approved Project. The majority of operational emissions would be due to vehicle trips to and from the site.

Table 7
Long-Term Operational Emissions (lbs/day)

Emission Source	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Proposed Project Emissions						
Area	13.9	0.3	26.1	<0.1	0.1	0.1
Energy	0.1	1.0	0.6	<0.1	<0.1	0.1
Mobile	9.1	20.3	85.0	0.2	16.3	4.6
Total Proposed Project Emissions	*23.0*	*21.7*	*111.8*	*0.2*	*16.5*	*4.8*
Approved Project Emissions						
Area	9.4	0.2	18.3	<0.1	0.1	0.1
Energy	0.1	0.8	0.5	<0.1	0.1	0.1
Mobile	6.9	15.0	63.5	0.2	21.8	5.8
Total Approved Project Emissions	*16.4*	*16.0*	*82.3*	*0.2*	*21.9*	*5.9*
Net Emissions (Proposed minus Approved)	*6.6*	*5.7*	*29.5*	*0*	*-5.4*	*-1.1*
SCAQMD Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: See Appendix for CalEEMod calculations. Assumed compliance with SCAQMD's Healthy Hearths Initiative Rule 445 and Architectural Coating Rule 1113.
Note: Totals may not add up due to rounding.

As shown in Table 7, the net increase from the Approved Project to the Proposed Project generated emissions would not exceed the SCAQMD thresholds for ROG, NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$. The Proposed Project would result in fewer operational PM_{10} and $PM_{2.5}$ mobile emissions because CalEEMod accounts for the Proposed Project's greater density (dwelling units per acre) than the Approved Project, which results in reduced vehicle miles travelled and lower mobile emissions. Air quality impacts associated with operation of the Proposed Project would therefore, be less than significant.

Toxic Air Contaminants (TACs)

The California Air Resources Board's (ARB's) *Air Quality and Land Use Handbook: A Community Health Perspective* (April 2005) recommends against siting sensitive receptors within 500 feet of a freeway, urban roads with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day. The primary concern with respect to heavy-traffic roadway adjacency is the long-term effect of TACs, such as diesel exhaust particulates, on sensitive receptors. The primary source of diesel exhaust particulates is heavy-duty trucks on freeways and high-volume arterial roadways. The Proposed Project would not introduce sensitive receptors within 500 feet of a freeway, urban roads with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day. Therefore, the Proposed Project would not expose sensitive receptors to substantial pollutant concentrations.

Odors

Potential sources that may emit odors during construction activities include the use of architectural coatings and solvents. SCAQMD Rule 1113 limits the amount of volatile organic compounds from architectural coatings and solvents. Construction activities or materials would not create objectionable odors with compliance with SCAQMD rules.

SCAQMD has identified some common types of facilities that have been known to produce odors: agriculture (farming and livestock), wastewater treatment plants, food processing plants, chemical plants, composting operations, refineries, landfills, rendering plants, dairies, rail yards, and fiberglass molding operations (SCAQMD 1993).The Proposed Project would increase the number of residential units at the Project site and the proposed residences would not generate any odors.

Cumulative Impacts

The South Coast Air Basin is a non-attainment area for the federal standards for ozone, $PM_{2.5}$ and lead and the state standards for ozone, PM_{10}, $PM_{2.5}$, NO_2 and lead. Any growth within the Long Beach metropolitan area would contribute to existing exceedances of ambient air quality standards when taken as a whole with existing development. SCAQMD's project-specific and cumulative significance thresholds are the same (SCAQMD 2003). Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable (SCAQMD 2003). Conversely, projects that do not exceed the project-specific thresholds are not considered to be cumulatively significant (SCAQMD 2003).

As discussed above, the Proposed Project would result in an increase in temporary and long-term daily operation emissions; however, neither the Proposed Project's total emissions nor its net emissions in comparison to the Approved Project would exceed SCAQMD operational or construction thresholds. Because the Proposed Project would not generate emissions that exceed the SCAQMD's construction, LST, and operational thresholds and it is consistent with the AQMP, the Proposed Project's contribution to cumulative air quality impacts would not be cumulatively considerable.

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Appendix

California Emissions Estimator Model (CalEEMod) Air Quality Modeling Worksheets

Shoreline Gateway East Tower Project

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	458.00	Space	0.00	161,670.00	0
High Turnover (Sit Down Restaurant)	6.71	1000sqft	0.00	6,710.00	0
Apartments High Rise	315.00	Dwelling Unit	0.60	414,053.00	901

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total Total lot acerage for all land uses = 0.6 estimated from site plans, Residential (including common areas) SF = 414053 based on site plans

Construction Phase - Based on construction details

Off-road Equipment -

Off-road Equipment - Bore/Drill Rig added to account for pile driving activities during grading and excavation phase

Off-road Equipment -

Trips and VMT - Construction details from applicant

Grading - Total acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA.

Woodstoves - Based on site plans

Area Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assumed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only acocunts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00

tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	267.75	0.00
tblFireplaces	NumberNoFireplace	31.50	0.00
tblFireplaces	NumberWood	15.75	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LandUseSquareFeet	183,200.00	161,670.00
tblLandUse	LandUseSquareFeet	315,000.00	414,053.00
tblLandUse	LotAcreage	4.12	0.00
tblLandUse	LotAcreage	0.15	0.00
tblLandUse	LotAcreage	5.08	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.32
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	15.75	0.00
tblWoodstoves	NumberNoncatalytic	15.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3585	3.0262	3.7546	8.5200e-003	0.4047	0.1306	0.5354	0.1172	0.1212	0.2384	0.0000	710.2285	710.2285	0.0633	0.0000	711.5582
2018	1.8579	2.3945	4.1635	9.2700e-003	0.5254	0.1167	0.6421	0.1405	0.1083	0.2488	0.0000	719.3053	719.3053	0.0655	0.0000	720.6815
2019	1.4916	1.2987	2.2552	5.2200e-003	0.2858	0.0632	0.3490	0.0764	0.0589	0.1353	0.0000	394.9019	394.9019	0.0390	0.0000	395.7205
Total	**3.7080**	**6.7193**	**10.1733**	**0.0230**	**1.2159**	**0.3105**	**1.5264**	**0.3341**	**0.2884**	**0.6225**	**0.0000**	**1,824.4356**	**1,824.4356**	**0.1678**	**0.0000**	**1,827.9602**

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					
2017	0.3585	3.0261	3.7546	8.5200e-003	0.3797	0.1306	0.5103	0.1047	0.1212	0.2259	0.0000	710.2283	710.2283	0.0633	0.0000	711.5580
2018	1.8579	2.3945	4.1635	9.2700e-003	0.5254	0.1167	0.6421	0.1405	0.1083	0.2488	0.0000	719.3051	719.3051	0.0655	0.0000	720.6813
2019	1.4916	1.2987	2.2552	5.2200e-003	0.2858	0.0632	0.3490	0.0764	0.0589	0.1353	0.0000	394.9017	394.9017	0.0390	0.0000	395.7204
Total	**3.7080**	**6.7193**	**10.1733**	**0.0230**	**1.1909**	**0.3105**	**1.5014**	**0.3216**	**0.2884**	**0.6100**	**0.0000**	**1,824.4351**	**1,824.4351**	**0.1678**	**0.0000**	**1,827.9597**

	ROG	NOx	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**	**2.06**	**0.00**	**1.64**	**3.75**	**0.00**	**2.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.5420	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Energy	0.0253	0.2206	0.1257	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	971.3744	971.3744	0.0380	0.0115	975.7194
Mobile	1.5017	4.0374	16.1232	0.0467	3.1678	0.0633	3.2311	0.8477	0.0584	0.9061	0.0000	3,274.4542	3,274.4542	0.1184	0.0000	3,276.9409
Waste						0.0000	0.0000		0.0000	0.0000	45.6222	0.0000	45.6222	2.6962	0.0000	102.2423
Water						0.0000	0.0000		0.0000	0.0000	7.1573	125.6131	132.7704	0.7409	0.0186	154.0806
Total	**4.0690**	**4.2958**	**19.5141**	**0.0482**	**3.1678**	**0.0988**	**3.2665**	**0.8477**	**0.0938**	**0.9415**	**52.7795**	**4,376.7596**	**4,429.5391**	**3.5987**	**0.0300**	**4,514.4104**

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	2.4834	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Energy	0.0214	0.1872	0.1099	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	795.2853	795.2853	0.0309	9.4300e-003	798.8575
Mobile	1.4232	3.4284	14.1418	0.0384	2.5884	0.0526	2.6410	0.6927	0.0485	0.7412	0.0000	2,694.5396	2,694.5396	0.0987	0.0000	2,696.6132
Waste						0.0000	0.0000		0.0000	0.0000	45.6222	0.0000	45.6222	2.6962	0.0000	102.2423
Water						0.0000	0.0000		0.0000	0.0000	5.7259	108.8004	114.5263	0.5930	0.0149	131.5978
Total	**3.9280**	**3.6533**	**17.5169**	**0.0397**	**2.5884**	**0.0853**	**2.6737**	**0.6927**	**0.0812**	**0.7739**	**51.3481**	**3,603.9432**	**3,655.2913**	**3.4240**	**0.0243**	**3,734.7381**

	ROG	NOx	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	**3.46**	**14.96**	**10.23**	**17.57**	**18.29**	**13.60**	**18.15**	**18.29**	**13.42**	**17.80**	**2.71**	**17.66**	**17.48**	**4.85**	**18.90**	**17.27**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 838,457; Residential Outdoor: 279,486; Non-Residential Indoor: 252,570; Non-Residential Outdoor: 84,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1	8.00	205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving				81	0.73
Paving				255	0.40
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	298.00	61.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

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					0.0368	0.0000	0.0368	0.0185	0.0000	0.0185	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0653	0.6465	0.4547	8.9000e-004		0.0369	0.0369		0.0350	0.0350	0.0000	81.0259	81.0259	0.0198	0.0000	81.4412
Total	**0.0653**	**0.6465**	**0.4547**	**8.9000e-004**	**0.0368**	**0.0369**	**0.0737**	**0.0185**	**0.0350**	**0.0534**	**0.0000**	**81.0259**	**81.0259**	**0.0198**	**0.0000**	**81.4412**

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	0.0441	0.6978	0.5507	1.9200e-003	0.0447	0.0102	0.0549	0.0123	9.4100e-003	0.0217	0.0000	172.9136	172.9136	1.2400e-003	0.0000	172.9397
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	2.0100e-003	2.9700e-003	0.0309	8.0000e-005	6.1300e-003	5.0000e-005	6.1800e-003	1.6300e-003	5.0000e-005	1.6800e-003	0.0000	5.5254	5.5254	2.9000e-004	0.0000	5.5314
Total	**0.0461**	**0.7008**	**0.5816**	**2.0000e-003**	**0.0508**	**0.0103**	**0.0611**	**0.0139**	**9.4600e-003**	**0.0233**	**0.0000**	**178.4390**	**178.4390**	**1.5300e-003**	**0.0000**	**178.4711**

3.2 Grading - 2017

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					0.0118	0.0000	0.0118	5.9000e-003	0.0000	5.9000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0653	0.6465	0.4547	8.9000e-004		0.0369	0.0369		0.0350	0.0350	0.0000	81.0258	81.0258	0.0198	0.0000	81.4411
Total	**0.0653**	**0.6465**	**0.4547**	**8.9000e-004**	**0.0118**	**0.0369**	**0.0487**	**5.9000e-003**	**0.0350**	**0.0409**	**0.0000**	**81.0258**	**81.0258**	**0.0198**	**0.0000**	**81.4411**

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	0.0441	0.6978	0.5507	1.9200e-003	0.0447	0.0102	0.0549	0.0123	9.4100e-003	0.0217	0.0000	172.9136	172.9136	1.2400e-003	0.0000	172.9397
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	2.0100e-003	2.9700e-003	0.0309	8.0000e-005	6.1300e-003	5.0000e-005	6.1800e-003	1.6300e-003	5.0000e-005	1.6800e-003	0.0000	5.5254	5.5254	2.9000e-004	0.0000	5.5314
Total	**0.0461**	**0.7008**	**0.5816**	**2.0000e-003**	**0.0508**	**0.0103**	**0.0611**	**0.0139**	**9.4600e-003**	**0.0233**	**0.0000**	**178.4390**	**178.4390**	**1.5300e-003**	**0.0000**	**178.4711**

3.3 Building Construction - 2017

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	0.1108	1.1026	0.6994	9.9000e-004		0.0744	0.0744		0.0685	0.0685	0.0000	91.5161	91.5161	0.0280	0.0000	92.1049
Total	**0.1108**	**1.1026**	**0.6994**	**9.9000e-004**		**0.0744**	**0.0744**		**0.0685**	**0.0685**	**0.0000**	**91.5161**	**91.5161**	**0.0280**	**0.0000**	**92.1049**

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	0.0432	0.4385	0.5861	1.1500e-003	0.0327	6.7100e-003	0.0394	9.3200e-003	6.1700e-003	0.0155	0.0000	102.9854	102.9854	7.4000e-004	0.0000	103.0009
Worker	0.0931	0.1378	1.4328	3.4900e-003	0.2844	2.3300e-003	0.2868	0.0755	2.1500e-003	0.0777	0.0000	256.2621	256.2621	0.0132	0.0000	256.5401
Total	**0.1363**	**0.5763**	**2.0189**	**4.6400e-003**	**0.3171**	**9.0400e-003**	**0.3261**	**0.0849**	**8.3200e-003**	**0.0932**	**0.0000**	**359.2475**	**359.2475**	**0.0140**	**0.0000**	**359.5410**

3.3 Building Construction - 2017

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	0.1108	1.1026	0.6994	9.9000e-004		0.0744	0.0744		0.0685	0.0685	0.0000	91.5160	91.5160	0.0280	0.0000	92.1048
Total	**0.1108**	**1.1026**	**0.6994**	**9.9000e-004**		**0.0744**	**0.0744**		**0.0685**	**0.0685**	**0.0000**	**91.5160**	**91.5160**	**0.0280**	**0.0000**	**92.1048**

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	0.0432	0.4385	0.5861	1.1500e-003	0.0327	6.7100e-003	0.0394	9.3200e-003	6.1700e-003	0.0155	0.0000	102.9854	102.9854	7.4000e-004	0.0000	103.0009
Worker	0.0931	0.1378	1.4328	3.4900e-003	0.2844	2.3300e-003	0.2868	0.0755	2.1500e-003	0.0777	0.0000	256.2621	256.2621	0.0132	0.0000	256.5401
Total	**0.1363**	**0.5763**	**2.0189**	**4.6400e-003**	**0.3171**	**9.0400e-003**	**0.3261**	**0.0849**	**8.3200e-003**	**0.0932**	**0.0000**	**359.2475**	**359.2475**	**0.0140**	**0.0000**	**359.5410**

3.3 Building Construction - 2018

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	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847	0.0000	134.9913	134.9913	0.0420	0.0000	135.8738
Total	**0.1408**	**1.4300**	**1.0080**	**1.4800e-003**		**0.0921**	**0.0921**		**0.0847**	**0.0847**	**0.0000**	**134.9913**	**134.9913**	**0.0420**	**0.0000**	**135.8738**

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	0.0606	0.6037	0.8423	1.7200e-003	0.0490	9.4800e-003	0.0585	0.0140	8.7200e-003	0.0227	0.0000	151.8864	151.8864	1.1000e-003	0.0000	151.9096
Worker	0.1255	0.1875	1.9464	5.2400e-003	0.4267	3.4000e-003	0.4301	0.1133	3.1500e-003	0.1165	0.0000	370.0456	370.0456	0.0184	0.0000	370.4326
Total	**0.1861**	**0.7912**	**2.7888**	**6.9600e-003**	**0.4757**	**0.0129**	**0.4885**	**0.1273**	**0.0119**	**0.1392**	**0.0000**	**521.9320**	**521.9320**	**0.0195**	**0.0000**	**522.3421**

3.3 Building Construction - 2018

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	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847	0.0000	134.9912	134.9912	0.0420	0.0000	135.8737
Total	**0.1408**	**1.4300**	**1.0080**	**1.4800e-003**		**0.0921**	**0.0921**		**0.0847**	**0.0847**	**0.0000**	**134.9912**	**134.9912**	**0.0420**	**0.0000**	**135.8737**

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	0.0606	0.6037	0.8423	1.7200e-003	0.0490	9.4800e-003	0.0585	0.0140	8.7200e-003	0.0227	0.0000	151.8864	151.8864	1.1000e-003	0.0000	151.9096
Worker	0.1255	0.1875	1.9464	5.2400e-003	0.4267	3.4000e-003	0.4301	0.1133	3.1500e-003	0.1165	0.0000	370.0456	370.0456	0.0184	0.0000	370.4326
Total	**0.1861**	**0.7912**	**2.7888**	**6.9600e-003**	**0.4757**	**0.0129**	**0.4885**	**0.1273**	**0.0119**	**0.1392**	**0.0000**	**521.9320**	**521.9320**	**0.0195**	**0.0000**	**522.3421**

3.3 Building Construction - 2019

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	0.0624	0.6390	0.4925	7.4000e-004		0.0395	0.0395		0.0363	0.0363	0.0000	66.6395	66.6395	0.0211	0.0000	67.0822
Total	**0.0624**	**0.6390**	**0.4925**	**7.4000e-004**		**0.0395**	**0.0395**		**0.0363**	**0.0363**	**0.0000**	**66.6395**	**66.6395**	**0.0211**	**0.0000**	**67.0822**

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	0.0288	0.2794	0.4084	8.6000e-004	0.0246	4.5100e-003	0.0291	7.0200e-003	4.1500e-003	0.0112	0.0000	74.7475	74.7475	5.4000e-004	0.0000	74.7589
Worker	0.0578	0.0863	0.8958	2.6200e-003	0.2142	1.6800e-003	0.2158	0.0569	1.5600e-003	0.0584	0.0000	178.6629	178.6629	8.6600e-003	0.0000	178.8447
Total	**0.0866**	**0.3657**	**1.3042**	**3.4800e-003**	**0.2387**	**6.1900e-003**	**0.2449**	**0.0639**	**5.7100e-003**	**0.0696**	**0.0000**	**253.4103**	**253.4103**	**9.2000e-003**	**0.0000**	**253.6035**

3.3 Building Construction - 2019

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	0.0624	0.6390	0.4925	7.4000e-004		0.0395	0.0395		0.0363	0.0363	0.0000	66.6394	66.6394	0.0211	0.0000	67.0822
Total	**0.0624**	**0.6390**	**0.4925**	**7.4000e-004**		**0.0395**	**0.0395**		**0.0363**	**0.0363**	**0.0000**	**66.6394**	**66.6394**	**0.0211**	**0.0000**	**67.0822**

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	0.0288	0.2794	0.4084	8.6000e-004	0.0246	4.5100e-003	0.0291	7.0200e-003	4.1500e-003	0.0112	0.0000	74.7475	74.7475	5.4000e-004	0.0000	74.7589
Worker	0.0578	0.0863	0.8958	2.6200e-003	0.2142	1.6800e-003	0.2158	0.0569	1.5600e-003	0.0584	0.0000	178.6629	178.6629	8.6600e-003	0.0000	178.8447
Total	**0.0866**	**0.3657**	**1.3042**	**3.4800e-003**	**0.2387**	**6.1900e-003**	**0.2449**	**0.0639**	**5.7100e-003**	**0.0696**	**0.0000**	**253.4103**	**253.4103**	**9.2000e-003**	**0.0000**	**253.6035**

3.4 Architectural Coating - 2018

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	1.4939					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1514	0.1400	2.2000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.2771	19.2771	1.8300e-003	0.0000	19.3156
Total	**1.5165**	**0.1514**	**0.1400**	**2.2000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**19.2771**	**19.2771**	**1.8300e-003**	**0.0000**	**19.3156**

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	0.0146	0.0219	0.2267	6.1000e-004	0.0497	4.0000e-004	0.0501	0.0132	3.7000e-004	0.0136	0.0000	43.1049	43.1049	2.1500e-003	0.0000	43.1500
Total	**0.0146**	**0.0219**	**0.2267**	**6.1000e-004**	**0.0497**	**4.0000e-004**	**0.0501**	**0.0132**	**3.7000e-004**	**0.0136**	**0.0000**	**43.1049**	**43.1049**	**2.1500e-003**	**0.0000**	**43.1500**

3.4 Architectural Coating - 2018

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	1.4939					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1514	0.1400	2.2000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.2771	19.2771	1.8300e-003	0.0000	19.3155
Total	**1.5165**	**0.1514**	**0.1400**	**2.2000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**19.2771**	**19.2771**	**1.8300e-003**	**0.0000**	**19.3155**

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	0.0146	0.0219	0.2267	6.1000e-004	0.0497	4.0000e-004	0.0501	0.0132	3.7000e-004	0.0136	0.0000	43.1049	43.1049	2.1500e-003	0.0000	43.1500
Total	**0.0146**	**0.0219**	**0.2267**	**6.1000e-004**	**0.0497**	**4.0000e-004**	**0.0501**	**0.0132**	**3.7000e-004**	**0.0136**	**0.0000**	**43.1049**	**43.1049**	**2.1500e-003**	**0.0000**	**43.1500**

3.4 Architectural Coating - 2019

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	1.2960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1202	0.1206	1.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	16.7238	16.7238	1.4100e-003	0.0000	16.7535
Total	**1.3135**	**0.1202**	**0.1206**	**1.9000e-004**		**8.4300e-003**	**8.4300e-003**		**8.4300e-003**	**8.4300e-003**	**0.0000**	**16.7238**	**16.7238**	**1.4100e-003**	**0.0000**	**16.7535**

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	0.0116	0.0174	0.1804	5.3000e-004	0.0431	3.4000e-004	0.0435	0.0115	3.1000e-004	0.0118	0.0000	35.9724	35.9724	1.7400e-003	0.0000	36.0090
Total	**0.0116**	**0.0174**	**0.1804**	**5.3000e-004**	**0.0431**	**3.4000e-004**	**0.0435**	**0.0115**	**3.1000e-004**	**0.0118**	**0.0000**	**35.9724**	**35.9724**	**1.7400e-003**	**0.0000**	**36.0090**

3.4 Architectural Coating - 2019

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	1.2960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1202	0.1206	1.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	16.7238	16.7238	1.4100e-003	0.0000	16.7535
Total	**1.3135**	**0.1202**	**0.1206**	**1.9000e-004**		**8.4300e-003**	**8.4300e-003**		**8.4300e-003**	**8.4300e-003**	**0.0000**	**16.7238**	**16.7238**	**1.4100e-003**	**0.0000**	**16.7535**

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	0.0116	0.0174	0.1804	5.3000e-004	0.0431	3.4000e-004	0.0435	0.0115	3.1000e-004	0.0118	0.0000	35.9724	35.9724	1.7400e-003	0.0000	36.0090
Total	**0.0116**	**0.0174**	**0.1804**	**5.3000e-004**	**0.0431**	**3.4000e-004**	**0.0435**	**0.0115**	**3.1000e-004**	**0.0118**	**0.0000**	**35.9724**	**35.9724**	**1.7400e-003**	**0.0000**	**36.0090**

3.5 Paving - 2019

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	0.0164	0.1548	0.1410	2.2000e-004		8.7500e-003	8.7500e-003		8.1200e-003	8.1200e-003	0.0000	18.8607	18.8607	5.3800e-003	0.0000	18.9737
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1548**	**0.1410**	**2.2000e-004**		**8.7500e-003**	**8.7500e-003**		**8.1200e-003**	**8.1200e-003**	**0.0000**	**18.8607**	**18.8607**	**5.3800e-003**	**0.0000**	**18.9737**

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	1.0700e-003	1.5900e-003	0.0165	5.0000e-005	3.9500e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.2952	3.2952	1.6000e-004	0.0000	3.2985
Total	**1.0700e-003**	**1.5900e-003**	**0.0165**	**5.0000e-005**	**3.9500e-003**	**3.0000e-005**	**3.9800e-003**	**1.0500e-003**	**3.0000e-005**	**1.0800e-003**	**0.0000**	**3.2952**	**3.2952**	**1.6000e-004**	**0.0000**	**3.2985**

3.5 Paving - 2019

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	0.0164	0.1548	0.1410	2.2000e-004		8.7500e-003	8.7500e-003		8.1200e-003	8.1200e-003	0.0000	18.8607	18.8607	5.3800e-003	0.0000	18.9737
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1548**	**0.1410**	**2.2000e-004**		**8.7500e-003**	**8.7500e-003**		**8.1200e-003**	**8.1200e-003**	**0.0000**	**18.8607**	**18.8607**	**5.3800e-003**	**0.0000**	**18.9737**

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	1.0700e-003	1.5900e-003	0.0165	5.0000e-005	3.9500e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.2952	3.2952	1.6000e-004	0.0000	3.2985
Total	**1.0700e-003**	**1.5900e-003**	**0.0165**	**5.0000e-005**	**3.9500e-003**	**3.0000e-005**	**3.9800e-003**	**1.0500e-003**	**3.0000e-005**	**1.0800e-003**	**0.0000**	**3.2952**	**3.2952**	**1.6000e-004**	**0.0000**	**3.2985**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	1.4232	3.4284	14.1418	0.0384	2.5884	0.0526	2.6410	0.6927	0.0485	0.7412	0.0000	2,694.5396	2,694.5396	0.0987	0.0000	2,696.6132
Unmitigated	1.5017	4.0374	16.1232	0.0467	3.1678	0.0633	3.2311	0.8477	0.0584	0.9061	0.0000	3,274.4542	3,274.4542	0.1184	0.0000	3,276.9409

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,990.80	2,255.40	1912.05	6,893,591	5,632,802
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,114.53	1,062.66	884.65	1,464,062	1,196,296
Total	3,105.33	3,318.06	2,796.70	8,357,654	6,829,098

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	583.6066	583.6066	0.0268	5.5500e-003	585.8906
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	721.1804	721.1804	0.0332	6.8600e-003	724.0028
NaturalGas Mitigated	0.0214	0.1872	0.1099	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	211.6787	211.6787	4.0600e-003	3.8800e-003	212.9670
NaturalGas Unmitigated	0.0253	0.2206	0.1257	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.1940	250.1940	4.8000e-003	4.5900e-003	251.7166

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					
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
High Turnover (Sit Down Restaurant)	1.5635e+006	8.4300e-003	0.0766	0.0644	4.6000e-004		5.8200e-003	5.8200e-003		5.8200e-003	5.8200e-003	0.0000	83.4342	83.4342	1.6000e-003	1.5300e-003	83.9419
Apartments High Rise	3.12496e+006	0.0169	0.1440	0.0613	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.7598	166.7598	3.2000e-003	3.0600e-003	167.7747
Total		**0.0253**	**0.2206**	**0.1257**	**1.3800e-003**		**0.0175**	**0.0175**		**0.0175**	**0.0175**	**0.0000**	**250.1940**	**250.1940**	**4.8000e-003**	**4.5900e-003**	**251.7166**

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					
High Turnover (Sit Down Restaurant)	1.48762e+006	8.0200e-003	0.0729	0.0613	4.4000e-004		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003	0.0000	79.3853	79.3853	1.5200e-003	1.4600e-003	79.8684
Apartments High Rise	2.47909e+006	0.0134	0.1142	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	132.2934	132.2934	2.5400e-003	2.4300e-003	133.0986
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
Total		**0.0214**	**0.1872**	**0.1099**	**1.1700e-003**		**0.0148**	**0.0148**		**0.0148**	**0.0148**	**0.0000**	**211.6787**	**211.6787**	**4.0600e-003**	**3.8900e-003**	**212.9670**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.11572e+006	319.2814	0.0147	3.0400e-003	320.5309
Enclosed Parking with Elevator	1.08966e+006	311.8234	0.0143	2.9700e-003	313.0437
High Turnover (Sit Down Restaurant)	314766	90.0756	4.1400e-003	8.6000e-004	90.4282
Total		**721.1804**	**0.0332**	**6.8700e-003**	**724.0028**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	979609	280.3317	0.0129	2.6700e-003	281.4288
Enclosed Parking with Elevator	782402	223.8975	0.0103	2.1300e-003	224.7738
High Turnover (Sit Down Restaurant)	277381	79.3774	3.6500e-003	7.5000e-004	79.6880
Total		**583.6066**	**0.0268**	**5.5500e-003**	**585.8906**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.4834	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Unmitigated	2.5420	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272

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	0.3375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1046					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	0.0998	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Total	**2.5420**	**0.0378**	**3.2653**	**1.7000e-004**		**0.0179**	**0.0179**		**0.0179**	**0.0179**	**0.0000**	**5.3179**	**5.3179**	**5.2100e-003**	**0.0000**	**5.4272**

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	0.2790					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1046					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	0.0998	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Total	**2.4834**	**0.0378**	**3.2653**	**1.7000e-004**		**0.0179**	**0.0179**		**0.0179**	**0.0179**	**0.0000**	**5.3179**	**5.3179**	**5.2100e-003**	**0.0000**	**5.4272**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	114.5263	0.5930	0.0149	131.5978
Unmitigated	132.7704	0.7409	0.0186	154.0806

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	20.5235 / 12.9387	124.1218	0.6742	0.0169	143.5212
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.03671 / 0.130003	8.6486	0.0667	1.6400e-003	10.5594
Total		**132.7704**	**0.7409**	**0.0186**	**154.0806**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	16.4188 / 12.9387	107.5247	0.5396	0.0136	123.0681
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.62937 / 0.130003	7.0016	0.0534	1.3100e-003	8.5297
Total		**114.5263**	**0.5930**	**0.0149**	**131.5978**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	45.6222	2.6962	0.0000	102.2423
Unmitigated	45.6222	2.6962	0.0000	102.2423

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	144.9	29.4134	1.7383	0.0000	65.9173
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	79.85	16.2088	0.9579	0.0000	36.3250
Total		**45.6222**	**2.6962**	**0.0000**	**102.2423**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	144.9	29.4134	1.7383	0.0000	65.9173
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	79.85	16.2088	0.9579	0.0000	36.3250
Total		**45.6222**	**2.6962**	**0.0000**	**102.2423**

9.0 Operational Offroad

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

10.0 Vegetation

Shoreline Gateway East Tower Project

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	458.00	Space	0.00	161,670.00	0
High Turnover (Sit Down Restaurant)	6.71	1000sqft	0.00	6,710.00	0
Apartments High Rise	315.00	Dwelling Unit	0.60	414,053.00	901

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total Total lot acerage for all land uses = 0.6 estimated from site plans, Residential (including common areas) SF = 414053 based on site plans

Construction Phase - Based on construction details

Off-road Equipment -

Off-road Equipment - Bore/Drill Rig added to account for pile driving activities during grading and excavation phase

Off-road Equipment -

Trips and VMT - Construction details from applicant

Grading - Total acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA.

Woodstoves - Based on site plans

Area Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assumed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only acocunts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00

tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	267.75	0.00
tblFireplaces	NumberNoFireplace	31.50	0.00
tblFireplaces	NumberWood	15.75	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LandUseSquareFeet	183,200.00	161,670.00
tblLandUse	LandUseSquareFeet	315,000.00	414,053.00
tblLandUse	LotAcreage	4.12	0.00
tblLandUse	LotAcreage	0.15	0.00
tblLandUse	LotAcreage	5.08	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.32
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	15.75	0.00
tblWoodstoves	NumberNoncatalytic	15.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	2.8563	30.4942	31.2555	0.0673	3.7123	1.0964	4.6712	0.9920	1.0332	1.8742	0.0000	6,662.9343	6,662.9343	0.5460	0.0000	6,674.3999
2018	22.8101	18.9201	34.1250	0.0782	4.3830	0.9597	5.3427	1.1699	0.8952	2.0650	0.0000	6,652.5338	6,652.5338	0.5779	0.0000	6,664.6698
2019	23.4082	24.8880	40.0885	0.0917	4.5842	1.2697	5.8539	1.2232	1.1821	2.4054	0.0000	7,689.4457	7,689.4457	0.8681	0.0000	7,707.6765
Total	**49.0746**	**74.3022**	**105.4690**	**0.2372**	**12.6794**	**3.3258**	**15.8678**	**3.3851**	**3.1105**	**6.3446**	**0.0000**	**21,004.9138**	**21,004.9138**	**1.9920**	**0.0000**	**21,046.7461**

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					
2017	2.8563	30.4942	31.2555	0.0673	3.7123	1.0964	4.6712	0.9920	1.0332	1.8742	0.0000	6,662.9343	6,662.9343	0.5460	0.0000	6,674.3999
2018	22.8101	18.9201	34.1250	0.0782	4.3830	0.9597	5.3427	1.1699	0.8952	2.0650	0.0000	6,652.5338	6,652.5338	0.5779	0.0000	6,664.6698
2019	23.4082	24.8880	40.0885	0.0917	4.5842	1.2697	5.8539	1.2232	1.1821	2.4054	0.0000	7,689.4457	7,689.4457	0.8681	0.0000	7,707.6765
Total	**49.0746**	**74.3022**	**105.4690**	**0.2372**	**12.6794**	**3.3258**	**15.8678**	**3.3851**	**3.1105**	**6.3446**	**0.0000**	**21,004.9138**	**21,004.9138**	**1.9920**	**0.0000**	**21,046.7461**

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

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	14.1801	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Energy	0.1385	1.2090	0.6885	7.5600e-003		0.0957	0.0957		0.0957	0.0957		1,511.1870	1,511.1870	0.0290	0.0277	1,520.3839
Mobile	9.2224	22.8413	96.7429	0.2944	19.5693	0.3837	19.9530	5.2290	0.3539	5.5829		22,730.1574	22,730.1574	0.7913		22,746.7747
Total	**23.5410**	**24.3523**	**123.5534**	**0.3033**	**19.5693**	**0.6229**	**20.1923**	**5.2290**	**0.5931**	**5.8221**	**0.0000**	**24,288.2402**	**24,288.2402**	**0.8662**	**0.0277**	**24,315.0182**

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	13.8594	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Energy	0.1172	1.0255	0.6020	6.3900e-003		0.0810	0.0810		0.0810	0.0810		1,278.5525	1,278.5525	0.0245	0.0234	1,286.3336
Mobile	8.7337	19.4242	83.6680	0.2422	15.9902	0.3185	16.3087	4.2726	0.2938	4.5664		18,700.5436	18,700.5436	0.6596		18,714.3959
Total	**22.7103**	**20.7517**	**110.3920**	**0.2500**	**15.9902**	**0.5430**	**16.5332**	**4.2726**	**0.5183**	**4.7909**	**0.0000**	**20,025.9918**	**20,025.9918**	**0.7301**	**0.0234**	**20,048.5891**

	ROG	NOx	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	**3.53**	**14.79**	**10.65**	**17.59**	**18.29**	**12.83**	**18.12**	**18.29**	**12.62**	**17.71**	**0.00**	**17.55**	**17.55**	**15.71**	**15.41**	**17.55**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 838,457; Residential Outdoor: 279,486; Non-Residential Indoor: 252,570; Non-Residential Outdoor: 84,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1	8.00	205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving				81	0.73
Paving				255	0.40
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	298.00	61.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8562	0.0000	0.8562	0.4291	0.0000	0.4291			0.0000			0.0000
Off-Road	1.5185	15.0344	10.5748	0.0208		0.8576	0.8576		0.8135	0.8135		2,077.1114	2,077.1114	0.5070		2,087.7579
Total	**1.5185**	**15.0344**	**10.5748**	**0.0208**	**0.8562**	**0.8576**	**1.7138**	**0.4291**	**0.8135**	**1.2427**		**2,077.1114**	**2,077.1114**	**0.5070**		**2,087.7579**

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	0.9881	15.3986	11.3158	0.0447	1.0563	0.2376	1.2939	0.2893	0.2185	0.5078		4,437.0955	4,437.0955	0.0317		4,437.7609
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	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.7275	148.7275	7.3200e-003		148.8811
Total	**1.0367**	**15.4598**	**12.0789**	**0.0466**	**1.2016**	**0.2387**	**1.4404**	**0.3278**	**0.2196**	**0.5474**		**4,585.8230**	**4,585.8230**	**0.0390**		**4,586.6420**

3.2 Grading - 2017

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					0.2740	0.0000	0.2740	0.1373	0.0000	0.1373			0.0000			0.0000
Off-Road	1.5185	15.0344	10.5748	0.0208		0.8576	0.8576		0.8135	0.8135	0.0000	2,077.1114	2,077.1114	0.5070		2,087.7579
Total	**1.5185**	**15.0344**	**10.5748**	**0.0208**	**0.2740**	**0.8576**	**1.1316**	**0.1373**	**0.8135**	**0.9509**	**0.0000**	**2,077.1114**	**2,077.1114**	**0.5070**		**2,087.7579**

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	0.9881	15.3986	11.3158	0.0447	1.0563	0.2376	1.2939	0.2893	0.2185	0.5078		4,437.0955	4,437.0955	0.0317		4,437.7609
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	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.7275	148.7275	7.3200e-003		148.8811
Total	**1.0367**	**15.4598**	**12.0789**	**0.0466**	**1.2016**	**0.2387**	**1.4404**	**0.3278**	**0.2196**	**0.5474**		**4,585.8230**	**4,585.8230**	**0.0390**		**4,586.6420**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**		**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.4671	4.8237	5.7224	0.0133	0.3813	0.0768	0.4581	0.1086	0.0706	0.1792		1,309.4697	1,309.4697	9.2300e-003		1,309.6636
Worker	1.1153	1.4011	17.4936	0.0422	3.3309	0.0268	3.3577	0.8834	0.0247	0.9081		3,409.2915	3,409.2915	0.1677		3,412.8135
Total	**1.5824**	**6.2248**	**23.2160**	**0.0555**	**3.7123**	**0.1036**	**3.8158**	**0.9920**	**0.0953**	**1.0873**		**4,718.7611**	**4,718.7611**	**0.1770**		**4,722.4771**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**	**0.0000**	**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.4671	4.8237	5.7224	0.0133	0.3813	0.0768	0.4581	0.1086	0.0706	0.1792		1,309.4697	1,309.4697	9.2300e-003		1,309.6636
Worker	1.1153	1.4011	17.4936	0.0422	3.3309	0.0268	3.3577	0.8834	0.0247	0.9081		3,409.2915	3,409.2915	0.1677		3,412.8135
Total	**1.5824**	**6.2248**	**23.2160**	**0.0555**	**3.7123**	**0.1036**	**3.8158**	**0.9920**	**0.0953**	**1.0873**		**4,718.7611**	**4,718.7611**	**0.1770**		**4,722.4771**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491		1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**		**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.4381	4.4296	5.4520	0.0132	0.3814	0.0724	0.4537	0.1086	0.0666	0.1752		1,287.5110	1,287.5110	9.1800e-003		1,287.7038
Worker	1.0055	1.2711	15.8947	0.0422	3.3309	0.0261	3.3570	0.8834	0.0241	0.9075		3,282.4330	3,282.4330	0.1557		3,285.7019
Total	**1.4436**	**5.7007**	**21.3466**	**0.0554**	**3.7123**	**0.0984**	**3.8107**	**0.9920**	**0.0907**	**1.0827**		**4,569.9440**	**4,569.9440**	**0.1649**		**4,573.4057**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491	0.0000	1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**	**0.0000**	**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.4381	4.4296	5.4520	0.0132	0.3814	0.0724	0.4537	0.1086	0.0666	0.1752		1,287.5110	1,287.5110	9.1800e-003		1,287.7038
Worker	1.0055	1.2711	15.8947	0.0422	3.3309	0.0261	3.3570	0.8834	0.0241	0.9075		3,282.4330	3,282.4330	0.1557		3,285.7019
Total	**1.4436**	**5.7007**	**21.3466**	**0.0554**	**3.7123**	**0.0984**	**3.8107**	**0.9920**	**0.0907**	**1.0827**		**4,569.9440**	**4,569.9440**	**0.1649**		**4,573.4057**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544		1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**		**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.4150	4.0864	5.2471	0.0132	0.3814	0.0687	0.4500	0.1086	0.0632	0.1718		1,262.4228	1,262.4228	9.0000e-003		1,262.6118
Worker	0.9254	1.1659	14.6080	0.0421	3.3309	0.0256	3.3566	0.8834	0.0238	0.9071		3,157.9843	3,157.9843	0.1457		3,161.0443
Total	**1.3404**	**5.2523**	**19.8551**	**0.0553**	**3.7123**	**0.0943**	**3.8066**	**0.9920**	**0.0869**	**1.0789**		**4,420.4070**	**4,420.4070**	**0.1547**		**4,423.6560**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544	0.0000	1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**	**0.0000**	**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.4150	4.0864	5.2471	0.0132	0.3814	0.0687	0.4500	0.1086	0.0632	0.1718		1,262.4228	1,262.4228	9.0000e-003		1,262.6118
Worker	0.9254	1.1659	14.6080	0.0421	3.3309	0.0256	3.3566	0.8834	0.0238	0.9071		3,157.9843	3,157.9843	0.1457		3,161.0443
Total	**1.3404**	**5.2523**	**19.8551**	**0.0553**	**3.7123**	**0.0943**	**3.8066**	**0.9920**	**0.0869**	**1.0789**		**4,420.4070**	**4,420.4070**	**0.1547**		**4,423.6560**

3.4 Architectural Coating - 2018

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**20.0854**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.2024	0.2559	3.2003	8.4900e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8600e-003	0.1827		660.8925	660.8925	0.0313		661.5507
Total	**0.2024**	**0.2559**	**3.2003**	**8.4900e-003**	**0.6707**	**5.2500e-003**	**0.6759**	**0.1779**	**4.8600e-003**	**0.1827**		**660.8925**	**660.8925**	**0.0313**		**661.5507**

3.4 Architectural Coating - 2018

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**20.0854**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.2024	0.2559	3.2003	8.4900e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8600e-003	0.1827		660.8925	660.8925	0.0313		661.5507
Total	**0.2024**	**0.2559**	**3.2003**	**8.4900e-003**	**0.6707**	**5.2500e-003**	**0.6759**	**0.1779**	**4.8600e-003**	**0.1827**		**660.8925**	**660.8925**	**0.0313**		**661.5507**

3.4 Architectural Coating - 2019

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**20.0532**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1863	0.2347	2.9412	8.4700e-003	0.6707	5.1600e-003	0.6758	0.1779	4.7800e-003	0.1826		635.8358	635.8358	0.0293		636.4519
Total	**0.1863**	**0.2347**	**2.9412**	**8.4700e-003**	**0.6707**	**5.1600e-003**	**0.6758**	**0.1779**	**4.7800e-003**	**0.1826**		**635.8358**	**635.8358**	**0.0293**		**636.4519**

3.4 Architectural Coating - 2019

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**20.0532**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1863	0.2347	2.9412	8.4700e-003	0.6707	5.1600e-003	0.6758	0.1779	4.7800e-003	0.1826		635.8358	635.8358	0.0293		636.4519
Total	**0.1863**	**0.2347**	**2.9412**	**8.4700e-003**	**0.6707**	**5.1600e-003**	**0.6758**	**0.1779**	**4.7800e-003**	**0.1826**		**635.8358**	**635.8358**	**0.0293**		**636.4519**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059		1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**		**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0559	0.0704	0.8824	2.5400e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		190.7507	190.7507	8.8000e-003		190.9356
Total	**0.0559**	**0.0704**	**0.8824**	**2.5400e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**190.7507**	**190.7507**	**8.8000e-003**		**190.9356**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059	0.0000	1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**	**0.0000**	**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0559	0.0704	0.8824	2.5400e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		190.7507	190.7507	8.8000e-003		190.9356
Total	**0.0559**	**0.0704**	**0.8824**	**2.5400e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**190.7507**	**190.7507**	**8.8000e-003**		**190.9356**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.7337	19.4242	83.6680	0.2422	15.9902	0.3185	16.3087	4.2726	0.2938	4.5664		18,700.5436	18,700.5436	0.6596		18,714.3959
Unmitigated	9.2224	22.8413	96.7429	0.2944	19.5693	0.3837	19.9530	5.2290	0.3539	5.5829		22,730.1574	22,730.1574	0.7913		22,746.7747

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,990.80	2,255.40	1912.05	6,893,591	5,632,802
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,114.53	1,062.66	884.65	1,464,062	1,196,296
Total	3,105.33	3,318.06	2,796.70	8,357,654	6,829,098

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1172	1.0255	0.6020	6.3900e-003		0.0810	0.0810		0.0810	0.0810		1,278.5525	1,278.5525	0.0245	0.0234	1,286.3336
NaturalGas Unmitigated	0.1385	1.2090	0.6885	7.5600e-003		0.0957	0.0957		0.0957	0.0957		1,511.1870	1,511.1870	0.0290	0.0277	1,520.3839

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4283.55	0.0462	0.4200	0.3528	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.9475	503.9475	9.6600e-003	9.2400e-003	507.0144
Apartments High Rise	8561.54	0.0923	0.7890	0.3358	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.2395	1,007.2395	0.0193	0.0185	1,013.3694
Total		**0.1385**	**1.2090**	**0.6885**	**7.5600e-003**		**0.0957**	**0.0957**		**0.0957**	**0.0957**		**1,511.1870**	**1,511.1870**	**0.0290**	**0.0277**	**1,520.3839**

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					
High Turnover (Sit Down Restaurant)	4.07568	0.0440	0.3996	0.3356	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.4920	479.4920	9.1900e-003	8.7900e-003	482.4101
Apartments High Rise	6.79201	0.0733	0.6259	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.0606	799.0606	0.0153	0.0147	803.9235
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
Total		**0.1172**	**1.0255**	**0.6020**	**6.4000e-003**		**0.0810**	**0.0810**		**0.0810**	**0.0810**		**1,278.5525**	**1,278.5525**	**0.0245**	**0.0234**	**1,286.3336**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.8594	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Unmitigated	14.1801	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.5322					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	0.7985	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436		46.8957	46.8957	0.0459		47.8596
Total	**14.1801**	**0.3020**	**26.1220**	**1.3800e-003**		**0.1436**	**0.1436**		**0.1436**	**0.1436**	**0.0000**	**46.8957**	**46.8957**	**0.0459**	**0.0000**	**47.8596**

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	1.5287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.5322					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	0.7985	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436		46.8957	46.8957	0.0459		47.8596
Total	**13.8594**	**0.3020**	**26.1220**	**1.3800e-003**		**0.1436**	**0.1436**		**0.1436**	**0.1436**	**0.0000**	**46.8957**	**46.8957**	**0.0459**	**0.0000**	**47.8596**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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 Vegetation

Shoreline Gateway East Tower Project

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	458.00	Space	0.00	161,670.00	0
High Turnover (Sit Down Restaurant)	6.71	1000sqft	0.00	6,710.00	0
Apartments High Rise	315.00	Dwelling Unit	0.60	414,053.00	901

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total Total lot acerage for all land uses = 0.6 estimated from site plans, Residential (including common areas) SF = 414053 based on site plans

Construction Phase - Based on construction details

Off-road Equipment -

Off-road Equipment - Bore/Drill Rig added to account for pile driving activities during grading and excavation phase

Off-road Equipment -

Trips and VMT - Construction details from applicant

Grading - Total acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA.

Woodstoves - Based on site plans

Area Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assumed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only acocunts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00

tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	267.75	0.00
tblFireplaces	NumberNoFireplace	31.50	0.00
tblFireplaces	NumberWood	15.75	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LandUseSquareFeet	183,200.00	161,670.00
tblLandUse	LandUseSquareFeet	315,000.00	414,053.00
tblLandUse	LotAcreage	4.12	0.00
tblLandUse	LotAcreage	0.15	0.00
tblLandUse	LotAcreage	5.08	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.32
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	15.75	0.00
tblWoodstoves	NumberNoncatalytic	15.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	2.9218	31.0567	31.0413	0.0671	3.7123	1.0969	4.6719	0.9920	1.0336	1.8749	0.0000	6,643.1307	6,643.1307	0.5464	0.0000	6,654.6054
2018	22.8701	19.1765	33.7015	0.0749	4.3830	0.9604	5.3434	1.1699	0.8958	2.0656	0.0000	6,395.7406	6,395.7406	0.5782	0.0000	6,407.8828
2019	23.4635	25.1278	39.6606	0.0882	4.5842	1.2704	5.8545	1.2232	1.1827	2.4059	0.0000	7,429.6341	7,429.6341	0.8684	0.0000	7,447.8711
Total	**49.2554**	**75.3610**	**104.4034**	**0.2303**	**12.6794**	**3.3277**	**15.8698**	**3.3851**	**3.1121**	**6.3465**	**0.0000**	**20,468.5053**	**20,468.5053**	**1.9931**	**0.0000**	**20,510.3593**

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					
2017	2.9218	31.0567	31.0413	0.0671	3.7123	1.0969	4.6719	0.9920	1.0336	1.8749	0.0000	6,643.1307	6,643.1307	0.5464	0.0000	6,654.6054
2018	22.8701	19.1765	33.7015	0.0749	4.3830	0.9604	5.3434	1.1699	0.8958	2.0656	0.0000	6,395.7406	6,395.7406	0.5782	0.0000	6,407.8828
2019	23.4635	25.1278	39.6606	0.0882	4.5842	1.2704	5.8545	1.2232	1.1827	2.4059	0.0000	7,429.6341	7,429.6341	0.8684	0.0000	7,447.8711
Total	**49.2554**	**75.3610**	**104.4034**	**0.2303**	**12.6794**	**3.3277**	**15.8698**	**3.3851**	**3.1121**	**6.3465**	**0.0000**	**20,468.5053**	**20,468.5053**	**1.9931**	**0.0000**	**20,510.3593**

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

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	14.1801	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Energy	0.1385	1.2090	0.6885	7.5600e-003		0.0957	0.0957		0.0957	0.0957		1,511.1870	1,511.1870	0.0290	0.0277	1,520.3839
Mobile	9.5234	23.9663	96.7372	0.2796	19.5693	0.3851	19.9544	5.2290	0.3552	5.5842		21,647.7432	21,647.7432	0.7923		21,664.3823
Total	**23.8420**	**25.4773**	**123.5478**	**0.2885**	**19.5693**	**0.6244**	**20.1937**	**5.2290**	**0.5945**	**5.8235**	**0.0000**	**23,205.8260**	**23,205.8260**	**0.8672**	**0.0277**	**23,232.6257**

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	13.8594	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Energy	0.1172	1.0255	0.6020	6.3900e-003		0.0810	0.0810		0.0810	0.0810		1,278.5525	1,278.5525	0.0245	0.0234	1,286.3336
Mobile	9.0522	20.3490	85.0472	0.2301	15.9902	0.3199	16.3102	4.2726	0.2951	4.5678		17,810.7345	17,810.7345	0.6607		17,824.6086
Total	**23.0288**	**21.6766**	**111.7712**	**0.2378**	**15.9902**	**0.5445**	**16.5347**	**4.2726**	**0.5196**	**4.7923**	**0.0000**	**19,136.1827**	**19,136.1827**	**0.7311**	**0.0234**	**19,158.8018**

	ROG	NOx	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	**3.41**	**14.92**	**9.53**	**17.57**	**18.29**	**12.80**	**18.12**	**18.29**	**12.59**	**17.71**	**0.00**	**17.54**	**17.54**	**15.70**	**15.41**	**17.53**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 838,457; Residential Outdoor: 279,486; Non-Residential Indoor: 252,570; Non-Residential Outdoor: 84,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1	8.00	205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving				81	0.73
Paving				255	0.40
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	298.00	61.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8562	0.0000	0.8562	0.4291	0.0000	0.4291			0.0000			0.0000
Off-Road	1.5185	15.0344	10.5748	0.0208		0.8576	0.8576		0.8135	0.8135		2,077.1114	2,077.1114	0.5070		2,087.7579
Total	**1.5185**	**15.0344**	**10.5748**	**0.0208**	**0.8562**	**0.8576**	**1.7138**	**0.4291**	**0.8135**	**1.2427**		**2,077.1114**	**2,077.1114**	**0.5070**		**2,087.7579**

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	1.0394	15.9551	13.0481	0.0446	1.0563	0.2381	1.2944	0.2893	0.2190	0.5083		4,426.5494	4,426.5494	0.0321		4,427.2240
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	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.4700	139.4700	7.3200e-003		139.6236
Total	**1.0890**	**16.0223**	**13.7491**	**0.0464**	**1.2016**	**0.2393**	**1.4409**	**0.3278**	**0.2201**	**0.5479**		**4,566.0193**	**4,566.0193**	**0.0394**		**4,566.8476**

3.2 Grading - 2017

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					0.2740	0.0000	0.2740	0.1373	0.0000	0.1373			0.0000			0.0000
Off-Road	1.5185	15.0344	10.5748	0.0208		0.8576	0.8576		0.8135	0.8135	0.0000	2,077.1114	2,077.1114	0.5070		2,087.7579
Total	**1.5185**	**15.0344**	**10.5748**	**0.0208**	**0.2740**	**0.8576**	**1.1316**	**0.1373**	**0.8135**	**0.9509**	**0.0000**	**2,077.1114**	**2,077.1114**	**0.5070**		**2,087.7579**

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	1.0394	15.9551	13.0481	0.0446	1.0563	0.2381	1.2944	0.2893	0.2190	0.5083		4,426.5494	4,426.5494	0.0321		4,427.2240
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	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.4700	139.4700	7.3200e-003		139.6236
Total	**1.0890**	**16.0223**	**13.7491**	**0.0464**	**1.2016**	**0.2393**	**1.4409**	**0.3278**	**0.2201**	**0.5479**		**4,566.0193**	**4,566.0193**	**0.0394**		**4,566.8476**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**		**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.5102	4.9427	6.9331	0.0132	0.3813	0.0775	0.4589	0.1086	0.0713	0.1799		1,298.4696	1,298.4696	9.5200e-003		1,298.6696
Worker	1.1376	1.5387	16.0687	0.0395	3.3309	0.0268	3.3577	0.8834	0.0247	0.9081		3,197.0807	3,197.0807	0.1677		3,200.6027
Total	**1.6478**	**6.4813**	**23.0018**	**0.0527**	**3.7123**	**0.1043**	**3.8166**	**0.9920**	**0.0960**	**1.0880**		**4,495.5503**	**4,495.5503**	**0.1772**		**4,499.2723**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**	**0.0000**	**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.5102	4.9427	6.9331	0.0132	0.3813	0.0775	0.4589	0.1086	0.0713	0.1799		1,298.4696	1,298.4696	9.5200e-003		1,298.6696
Worker	1.1376	1.5387	16.0687	0.0395	3.3309	0.0268	3.3577	0.8834	0.0247	0.9081		3,197.0807	3,197.0807	0.1677		3,200.6027
Total	**1.6478**	**6.4813**	**23.0018**	**0.0527**	**3.7123**	**0.1043**	**3.8166**	**0.9920**	**0.0960**	**1.0880**		**4,495.5503**	**4,495.5503**	**0.1772**		**4,499.2723**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491		1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**		**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.4769	4.5366	6.6530	0.0132	0.3814	0.0730	0.4544	0.1086	0.0672	0.1758		1,276.6725	1,276.6725	9.4700e-003		1,276.8715
Worker	1.0232	1.3955	14.5424	0.0395	3.3309	0.0261	3.3570	0.8834	0.0241	0.9075		3,077.6997	3,077.6997	0.1557		3,080.9687
Total	**1.5001**	**5.9320**	**21.1954**	**0.0527**	**3.7123**	**0.0991**	**3.8114**	**0.9920**	**0.0913**	**1.0833**		**4,354.3722**	**4,354.3722**	**0.1651**		**4,357.8401**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491	0.0000	1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**	**0.0000**	**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.4769	4.5366	6.6530	0.0132	0.3814	0.0730	0.4544	0.1086	0.0672	0.1758		1,276.6725	1,276.6725	9.4700e-003		1,276.8715
Worker	1.0232	1.3955	14.5424	0.0395	3.3309	0.0261	3.3570	0.8834	0.0241	0.9075		3,077.6997	3,077.6997	0.1557		3,080.9687
Total	**1.5001**	**5.9320**	**21.1954**	**0.0527**	**3.7123**	**0.0991**	**3.8114**	**0.9920**	**0.0913**	**1.0833**		**4,354.3722**	**4,354.3722**	**0.1651**		**4,357.8401**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544		1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**		**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.4508	4.1828	6.4344	0.0131	0.3814	0.0693	0.4507	0.1086	0.0637	0.1724		1,251.7464	1,251.7464	9.3000e-003		1,251.9418
Worker	0.9408	1.2796	13.3279	0.0394	3.3309	0.0256	3.3566	0.8834	0.0238	0.9071		2,960.5313	2,960.5313	0.1457		2,963.5913
Total	**1.3917**	**5.4624**	**19.7623**	**0.0525**	**3.7123**	**0.0949**	**3.8072**	**0.9920**	**0.0875**	**1.0795**		**4,212.2777**	**4,212.2777**	**0.1550**		**4,215.5330**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544	0.0000	1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**	**0.0000**	**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.4508	4.1828	6.4344	0.0131	0.3814	0.0693	0.4507	0.1086	0.0637	0.1724		1,251.7464	1,251.7464	9.3000e-003		1,251.9418
Worker	0.9408	1.2796	13.3279	0.0394	3.3309	0.0256	3.3566	0.8834	0.0238	0.9071		2,960.5313	2,960.5313	0.1457		2,963.5913
Total	**1.3917**	**5.4624**	**19.7623**	**0.0525**	**3.7123**	**0.0949**	**3.8072**	**0.9920**	**0.0875**	**1.0795**		**4,212.2777**	**4,212.2777**	**0.1550**		**4,215.5330**

3.4 Architectural Coating - 2018

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**20.0854**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.2060	0.2810	2.9280	7.9500e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8600e-003	0.1827		619.6711	619.6711	0.0313		620.3293
Total	**0.2060**	**0.2810**	**2.9280**	**7.9500e-003**	**0.6707**	**5.2500e-003**	**0.6759**	**0.1779**	**4.8600e-003**	**0.1827**		**619.6711**	**619.6711**	**0.0313**		**620.3293**

3.4 Architectural Coating - 2018

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**20.0854**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.2060	0.2810	2.9280	7.9500e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8600e-003	0.1827		619.6711	619.6711	0.0313		620.3293
Total	**0.2060**	**0.2810**	**2.9280**	**7.9500e-003**	**0.6707**	**5.2500e-003**	**0.6759**	**0.1779**	**4.8600e-003**	**0.1827**		**619.6711**	**619.6711**	**0.0313**		**620.3293**

3.4 Architectural Coating - 2019

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**20.0532**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1894	0.2576	2.6835	7.9400e-003	0.6707	5.1600e-003	0.6758	0.1779	4.7800e-003	0.1826		596.0801	596.0801	0.0293		596.6962
Total	**0.1894**	**0.2576**	**2.6835**	**7.9400e-003**	**0.6707**	**5.1600e-003**	**0.6758**	**0.1779**	**4.7800e-003**	**0.1826**		**596.0801**	**596.0801**	**0.0293**		**596.6962**

3.4 Architectural Coating - 2019

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**20.0532**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1894	0.2576	2.6835	7.9400e-003	0.6707	5.1600e-003	0.6758	0.1779	4.7800e-003	0.1826		596.0801	596.0801	0.0293		596.6962
Total	**0.1894**	**0.2576**	**2.6835**	**7.9400e-003**	**0.6707**	**5.1600e-003**	**0.6758**	**0.1779**	**4.7800e-003**	**0.1826**		**596.0801**	**596.0801**	**0.0293**		**596.6962**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059		1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**		**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0568	0.0773	0.8050	2.3800e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		178.8240	178.8240	8.8000e-003		179.0089
Total	**0.0568**	**0.0773**	**0.8050**	**2.3800e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**178.8240**	**178.8240**	**8.8000e-003**		**179.0089**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059	0.0000	1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**	**0.0000**	**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0568	0.0773	0.8050	2.3800e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		178.8240	178.8240	8.8000e-003		179.0089
Total	**0.0568**	**0.0773**	**0.8050**	**2.3800e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**178.8240**	**178.8240**	**8.8000e-003**		**179.0089**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.0522	20.3490	85.0472	0.2301	15.9902	0.3199	16.3102	4.2726	0.2951	4.5678		17,810.7345	17,810.7345	0.6607		17,824.6086
Unmitigated	9.5234	23.9663	96.7372	0.2796	19.5693	0.3851	19.9544	5.2290	0.3552	5.5842		21,647.7432	21,647.7432	0.7923		21,664.3823

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,990.80	2,255.40	1912.05	6,893,591	5,632,802
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,114.53	1,062.66	884.65	1,464,062	1,196,296
Total	3,105.33	3,318.06	2,796.70	8,357,654	6,829,098

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1172	1.0255	0.6020	6.3900e-003		0.0810	0.0810		0.0810	0.0810		1,278.5525	1,278.5525	0.0245	0.0234	1,286.3336
NaturalGas Unmitigated	0.1385	1.2090	0.6885	7.5600e-003		0.0957	0.0957		0.0957	0.0957		1,511.1870	1,511.1870	0.0290	0.0277	1,520.3839

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4283.55	0.0462	0.4200	0.3528	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.9475	503.9475	9.6600e-003	9.2400e-003	507.0144
Apartments High Rise	8561.54	0.0923	0.7890	0.3358	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.2395	1,007.2395	0.0193	0.0185	1,013.3694
Total		**0.1385**	**1.2090**	**0.6885**	**7.5600e-003**		**0.0957**	**0.0957**		**0.0957**	**0.0957**		**1,511.1870**	**1,511.1870**	**0.0290**	**0.0277**	**1,520.3839**

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					
High Turnover (Sit Down Restaurant)	4.07568	0.0440	0.3996	0.3356	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.4920	479.4920	9.1900e-003	8.7900e-003	482.4101
Apartments High Rise	6.79201	0.0733	0.6259	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.0606	799.0606	0.0153	0.0147	803.9235
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
Total		**0.1172**	**1.0255**	**0.6020**	**6.4000e-003**		**0.0810**	**0.0810**		**0.0810**	**0.0810**		**1,278.5525**	**1,278.5525**	**0.0245**	**0.0234**	**1,286.3336**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.8594	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Unmitigated	14.1801	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.5322					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	0.7985	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436		46.8957	46.8957	0.0459		47.8596
Total	**14.1801**	**0.3020**	**26.1220**	**1.3800e-003**		**0.1436**	**0.1436**		**0.1436**	**0.1436**	**0.0000**	**46.8957**	**46.8957**	**0.0459**	**0.0000**	**47.8596**

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	1.5287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.5322					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	0.7985	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436		46.8957	46.8957	0.0459		47.8596
Total	**13.8594**	**0.3020**	**26.1220**	**1.3800e-003**		**0.1436**	**0.1436**		**0.1436**	**0.1436**	**0.0000**	**46.8957**	**46.8957**	**0.0459**	**0.0000**	**47.8596**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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 Vegetation

Shoreline Gateway East Tower Project

South Coast Air Basin, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
	Diesel	No Change	0	0	No Change	0.00
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Bore/Drill Rigs	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	4.00000E-002	2.71650E-001	2.60600E-001	4.20000E-004	1.98000E-002	1.98000E-002	0.00000E+000	3.60009E+001	3.60009E+001	3.24000E-003	0.00000E+000	3.60690E+001
Bore/Drill Rigs	1.34900E-002	1.96010E-001	8.56700E-002	3.80000E-004	5.63000E-003	5.18000E-003	0.00000E+000	3.48466E+001	3.48466E+001	1.06800E-002	0.00000E+000	3.50708E+001
Cement and Mortar Mixers	3.53000E-003	2.20900E-002	1.85000E-002	4.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.74966E+000	2.74966E+000	2.90000E-004	0.00000E+000	2.75565E+000
Concrete/Industrial Saws	2.49800E-002	1.83230E-001	1.61210E-001	2.70000E-004	1.31800E-002	1.31800E-002	0.00000E+000	2.31192E+001	2.31192E+001	2.03000E-003	0.00000E+000	2.31619E+001
Cranes	8.07700E-002	9.62540E-001	3.54360E-001	8.00000E-004	4.19200E-002	3.85700E-002	0.00000E+000	7.30067E+001	7.30067E+001	2.27000E-002	0.00000E+000	7.34834E+001
Forklifts	7.81100E-002	6.86880E-001	5.17440E-001	6.50000E-004	5.51300E-002	5.07200E-002	0.00000E+000	5.92958E+001	5.92958E+001	1.84400E-002	0.00000E+000	5.96830E+001
Pavers	4.84000E-003	5.25800E-002	4.88300E-002	8.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	7.10589E+000	7.10589E+000	2.25000E-003	0.00000E+000	7.15310E+000
Rollers	3.96000E-003	3.92200E-002	3.33800E-002	5.00000E-005	2.58000E-003	2.37000E-003	0.00000E+000	4.12267E+000	4.12267E+000	1.30000E-003	0.00000E+000	4.15006E+000
Rubber Tired Dozers	6.40000E-003	7.09100E-002	5.34300E-002	5.00000E-005	3.29000E-003	3.03000E-003	0.00000E+000	4.43731E+000	4.43731E+000	1.36000E-003	0.00000E+000	4.46586E+000
Tractors/Loaders/Backhoes	1.79580E-001	1.75942E+000	1.52276E+000	2.01000E-003	1.26390E-001	1.16280E-001	0.00000E+000	1.84350E+002	1.84350E+002	5.72600E-002	0.00000E+000	1.85552E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	4.00000E-002	2.71650E-001	2.60600E-001	4.20000E-004	1.98000E-002	1.98000E-002	0.00000E+000	3.60009E+001	3.60009E+001	3.24000E-003	0.00000E+000	3.60690E+001
Bore/Drill Rigs	1.34900E-002	1.96010E-001	8.56700E-002	3.80000E-004	5.63000E-003	5.18000E-003	0.00000E+000	3.48466E+001	3.48466E+001	1.06800E-002	0.00000E+000	3.50708E+001
Cement and Mortar Mixers	3.53000E-003	2.20900E-002	1.85000E-002	4.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.74965E+000	2.74965E+000	2.90000E-004	0.00000E+000	2.75565E+000
Concrete/Industrial Saws	2.49800E-002	1.83230E-001	1.61210E-001	2.70000E-004	1.31800E-002	1.31800E-002	0.00000E+000	2.31192E+001	2.31192E+001	2.03000E-003	0.00000E+000	2.31619E+001
Cranes	8.07700E-002	9.62540E-001	3.54360E-001	8.00000E-004	4.19200E-002	3.85700E-002	0.00000E+000	7.30066E+001	7.30066E+001	2.27000E-002	0.00000E+000	7.34833E+001
Forklifts	7.81100E-002	6.86880E-001	5.17440E-001	6.50000E-004	5.51300E-002	5.07200E-002	0.00000E+000	5.92957E+001	5.92957E+001	1.84400E-002	0.00000E+000	5.96829E+001
Pavers	4.84000E-003	5.25800E-002	4.88300E-002	8.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	7.10588E+000	7.10588E+000	2.25000E-003	0.00000E+000	7.15309E+000
Rollers	3.96000E-003	3.92200E-002	3.33800E-002	5.00000E-005	2.58000E-003	2.37000E-003	0.00000E+000	4.12267E+000	4.12267E+000	1.30000E-003	0.00000E+000	4.15006E+000
Rubber Tired Dozers	6.40000E-003	7.09100E-002	5.34300E-002	5.00000E-005	3.29000E-003	3.03000E-003	0.00000E+000	4.43730E+000	4.43730E+000	1.36000E-003	0.00000E+000	4.46586E+000
Tractors/Loaders/Backhoes	1.79580E-001	1.75942E+000	1.52276E+000	2.01000E-003	1.26390E-001	1.16280E-001	0.00000E+000	1.84349E+002	1.84349E+002	5.72600E-002	0.00000E+000	1.85552E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11108E-006	1.11108E-006	0.00000E+000	0.00000E+000	1.10898E-006
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14789E-006	1.14789E-006	0.00000E+000	0.00000E+000	1.42569E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.63681E-006	3.63681E-006	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29762E-006	1.29762E-006	0.00000E+000	0.00000E+000	1.29523E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23276E-006	1.23276E-006	0.00000E+000	0.00000E+000	1.08868E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18052E-006	1.18052E-006	0.00000E+000	0.00000E+000	1.17286E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.40728E-006	1.40728E-006	0.00000E+000	0.00000E+000	1.39800E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.25362E-006	2.25362E-006	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19338E-006	1.19338E-006	0.00000E+000	0.00000E+000	1.18565E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	68.00	PM2.5 Reduction	68.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	25.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.09	0.02	0.09	0.02	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	1.03	0.28	1.03	0.28	0.00	0.00
Grading	Fugitive Dust	0.04	0.02	0.01	0.01	0.68	0.68
Grading	Roads	0.05	0.01	0.05	0.01	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	17.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.08	19.08	19.06	19.21	19.08
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	5.23	15.09	12.29	17.71	16.96	16.95	0.00	17.71	17.71	16.61	0.00	17.71
Natural Gas	15.39	15.17	12.56	15.22	15.35	15.35	0.00	15.39	15.39	15.42	15.25	15.39
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	13.38	13.74	19.96	19.68	14.59
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	4.77	525.00		
Yes	Land Use	Increase Diversity	0.07	0.27		
No	Land Use	Improve Walkability Design	0.00			
Yes	Land Use	Improve Destination Accessibility	0.20	0.00		
Yes	Land Use	Increase Transit Accessibility	0.08	0.60		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.18			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
Yes	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			

		Land Use and Site Enhancement Subtotal	0.18			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.18			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	100.00
Yes	Use Low VOC Paint (Non-residential Interior)	150.00
Yes	Use Low VOC Paint (Non-residential Exterior)	150.00
No	% Electric Lawnmower	0.00

No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	25.00	
Yes	Install High Efficiency Lighting	35.00	
No	On-site Renewable	0.00	0.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher	Apartments High Rise	30.00
DishWasher	Apartments High Rise	15.00
Fan		50.00
Refrigerator	Apartments High Rise	15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	

Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Approved Shoreline Gateway East Tower Project

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	403.00	Space	0.00	161,200.00	0
High Turnover (Sit Down Restaurant)	6.27	1000sqft	0.00	6,270.00	0
Apartments High Rise	221.00	Dwelling Unit	0.60	221,000.00	632

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Ttotal lot acreage for all uses = 0. estimated from site plans

Construction Phase - Based on construction details

Off-road Equipment - Bore/drill Rig added to account for pile driving during the grading and excavation phase

Trips and VMT - Applicant details - 14 CY trucks

Grading - Total lot acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1114 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA

Woodstoves - Based on site plans

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assummed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only accounts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68

tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00
tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	187.85	0.00
tblFireplaces	NumberNoFireplace	22.10	0.00
tblFireplaces	NumberWood	11.05	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LotAcreage	3.63	0.00
tblLandUse	LotAcreage	0.14	0.00
tblLandUse	LotAcreage	3.56	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.26
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	11.05	0.00
tblWoodstoves	NumberNoncatalytic	11.05	0.00

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3164	2.7264	3.2411	7.1500e-003	0.3335	0.1233	0.4569	0.0982	0.1145	0.2127	0.0000	599.1631	599.1631	0.0495	0.0000	600.2017
2018	1.4078	2.2470	3.5218	7.6400e-003	0.4069	0.1143	0.5212	0.1089	0.1061	0.2150	0.0000	598.6664	598.6664	0.0606	0.0000	599.9387
2019	1.1171	1.2288	1.9387	4.3500e-003	0.2221	0.0620	0.2841	0.0594	0.0578	0.1172	0.0000	332.8864	332.8864	0.0365	0.0000	333.6525
Total	**2.8413**	**6.2021**	**8.7016**	**0.0191**	**0.9626**	**0.2996**	**1.2622**	**0.2665**	**0.2784**	**0.5449**	**0.0000**	**1,530.7159**	**1,530.7159**	**0.1465**	**0.0000**	**1,533.7929**

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					
2017	0.3164	2.7263	3.2411	7.1500e-003	0.5686	0.1233	0.6920	0.1525	0.1145	0.2670	0.0000	599.1630	599.1630	0.0495	0.0000	600.2016
2018	1.4078	2.2470	3.5218	7.6400e-003	0.7539	0.1143	0.8682	0.1941	0.1061	0.3001	0.0000	598.6662	598.6662	0.0606	0.0000	599.9385
2019	1.1171	1.2288	1.9387	4.3500e-003	0.4118	0.0620	0.4738	0.1060	0.0578	0.1638	0.0000	332.8862	332.8862	0.0365	0.0000	333.6524
Total	**2.8413**	**6.2021**	**8.7016**	**0.0191**	**1.7343**	**0.2996**	**2.0340**	**0.4525**	**0.2784**	**0.7309**	**0.0000**	**1,530.7154**	**1,530.7154**	**0.1465**	**0.0000**	**1,533.7925**

	ROG	NOx	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**	**-80.17**	**0.00**	**-61.14**	**-69.82**	**0.00**	**-34.15**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	1.7349	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Energy	0.0197	0.1726	0.1032	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	814.0493	814.0493	0.0322	9.4600e-003	817.6586
Mobile	1.1529	3.0106	12.1235	0.0345	4.3362	0.0470	4.3831	1.1162	0.0433	1.1595	0.0000	2,422.4359	2,422.4359	0.0879	0.0000	2,424.2817
Waste						0.0000	0.0000		0.0000	0.0000	35.7812	0.0000	35.7812	2.1146	0.0000	80.1880
Water						0.0000	0.0000		0.0000	0.0000	5.1719	89.9918	95.1638	0.5353	0.0134	110.5596
Total	**2.9076**	**3.2097**	**14.5186**	**0.0357**	**4.3362**	**0.0732**	**4.4093**	**1.1162**	**0.0695**	**1.1857**	**40.9532**	**3,330.2101**	**3,371.1632**	**2.7737**	**0.0229**	**3,436.4978**

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	1.6767	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Energy	0.0169	0.1483	0.0913	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	661.0912	661.0912	0.0259	7.7600e-003	664.0411
Mobile	1.0900	2.5226	10.5360	0.0279	3.4758	0.0384	3.5142	0.8947	0.0354	0.9301	0.0000	1,957.8210	1,957.8210	0.0721	0.0000	1,959.3359
Waste						0.0000	0.0000		0.0000	0.0000	35.7812	0.0000	35.7812	2.1146	0.0000	80.1880
Water						0.0000	0.0000		0.0000	0.0000	4.1376	77.8429	81.9804	0.4285	0.0108	94.3134
Total	**2.7836**	**2.6974**	**12.9193**	**0.0289**	**3.4758**	**0.0626**	**3.5384**	**0.8947**	**0.0596**	**0.9543**	**39.9188**	**2,700.4881**	**2,740.4068**	**2.6448**	**0.0185**	**2,801.6882**

	ROG	NOx	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	**4.26**	**15.96**	**11.02**	**18.96**	**19.84**	**14.41**	**19.75**	**19.84**	**14.21**	**19.51**	**2.53**	**18.91**	**18.71**	**4.65**	**18.99**	**18.47**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 447,525; Residential Outdoor: 149,175; Non-Residential Indoor: 251,205; Non-Residential Outdoor: 83,735 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1		205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	229.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	46.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

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					0.0368	0.0000	0.0368	0.0185	0.0000	0.0185	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0518	0.4505	0.3691	5.2000e-004		0.0312	0.0312		0.0298	0.0298	0.0000	46.1793	46.1793	9.1000e-003	0.0000	46.3704
Total	**0.0518**	**0.4505**	**0.3691**	**5.2000e-004**	**0.0368**	**0.0312**	**0.0681**	**0.0185**	**0.0298**	**0.0483**	**0.0000**	**46.1793**	**46.1793**	**9.1000e-003**	**0.0000**	**46.3704**

3.2 Grading - 2017

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	0.0441	0.6978	0.5507	1.9200e-003	0.0447	0.0102	0.0549	0.0123	9.4100e-003	0.0217	0.0000	172.9136	172.9136	1.2400e-003	0.0000	172.9397
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	2.0100e-003	2.9700e-003	0.0309	8.0000e-005	6.1300e-003	5.0000e-005	6.1800e-003	1.6300e-003	5.0000e-005	1.6800e-003	0.0000	5.5254	5.5254	2.9000e-004	0.0000	5.5314
Total	**0.0461**	**0.7008**	**0.5816**	**2.0000e-003**	**0.0508**	**0.0103**	**0.0611**	**0.0139**	**9.4600e-003**	**0.0233**	**0.0000**	**178.4390**	**178.4390**	**1.5300e-003**	**0.0000**	**178.4711**

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					0.0236	0.0000	0.0236	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0518	0.4505	0.3691	5.2000e-004		0.0312	0.0312		0.0298	0.0298	0.0000	46.1793	46.1793	9.1000e-003	0.0000	46.3703
Total	**0.0518**	**0.4505**	**0.3691**	**5.2000e-004**	**0.0236**	**0.0312**	**0.0548**	**0.0118**	**0.0298**	**0.0416**	**0.0000**	**46.1793**	**46.1793**	**9.1000e-003**	**0.0000**	**46.3703**

3.2 Grading - 2017

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	0.0441	0.6978	0.5507	1.9200e-003	0.0784	0.0102	0.0887	0.0205	9.4100e-003	0.0300	0.0000	172.9136	172.9136	1.2400e-003	0.0000	172.9397
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	2.0100e-003	2.9700e-003	0.0309	8.0000e-005	0.0115	5.0000e-005	0.0115	2.9300e-003	5.0000e-005	2.9800e-003	0.0000	5.5254	5.5254	2.9000e-004	0.0000	5.5314
Total	**0.0461**	**0.7008**	**0.5816**	**2.0000e-003**	**0.0899**	**0.0103**	**0.1002**	**0.0235**	**9.4600e-003**	**0.0329**	**0.0000**	**178.4390**	**178.4390**	**1.5300e-003**	**0.0000**	**178.4711**

3.3 Building Construction - 2017

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	0.1108	1.1026	0.6994	9.9000e-004		0.0744	0.0744		0.0685	0.0685	0.0000	91.5161	91.5161	0.0280	0.0000	92.1049
Total	**0.1108**	**1.1026**	**0.6994**	**9.9000e-004**		**0.0744**	**0.0744**		**0.0685**	**0.0685**	**0.0000**	**91.5161**	**91.5161**	**0.0280**	**0.0000**	**92.1049**

3.3 Building Construction - 2017

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	0.0361	0.3666	0.4900	9.6000e-004	0.0273	5.6100e-003	0.0329	7.7900e-003	5.1600e-003	0.0130	0.0000	86.1025	86.1025	6.2000e-004	0.0000	86.1155
Worker	0.0716	0.1059	1.1010	2.6800e-003	0.2186	1.7900e-003	0.2204	0.0581	1.6500e-003	0.0597	0.0000	196.9263	196.9263	0.0102	0.0000	197.1399
Total	**0.1077**	**0.4725**	**1.5911**	**3.6400e-003**	**0.2459**	**7.4000e-003**	**0.2533**	**0.0658**	**6.8100e-003**	**0.0727**	**0.0000**	**283.0288**	**283.0288**	**0.0108**	**0.0000**	**283.2554**

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	0.1108	1.1026	0.6994	9.9000e-004		0.0744	0.0744		0.0685	0.0685	0.0000	91.5160	91.5160	0.0280	0.0000	92.1048
Total	**0.1108**	**1.1026**	**0.6994**	**9.9000e-004**		**0.0744**	**0.0744**		**0.0685**	**0.0685**	**0.0000**	**91.5160**	**91.5160**	**0.0280**	**0.0000**	**92.1048**

3.3 Building Construction - 2017

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	0.0361	0.3666	0.4900	9.6000e-004	0.0471	5.6100e-003	0.0527	0.0127	5.1600e-003	0.0178	0.0000	86.1025	86.1025	6.2000e-004	0.0000	86.1155
Worker	0.0716	0.1059	1.1010	2.6800e-003	0.4081	1.7900e-003	0.4099	0.1046	1.6500e-003	0.1062	0.0000	196.9263	196.9263	0.0102	0.0000	197.1399
Total	**0.1077**	**0.4725**	**1.5911**	**3.6400e-003**	**0.4552**	**7.4000e-003**	**0.4626**	**0.1172**	**6.8100e-003**	**0.1240**	**0.0000**	**283.0288**	**283.0288**	**0.0108**	**0.0000**	**283.2554**

3.3 Building Construction - 2018

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	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847	0.0000	134.9913	134.9913	0.0420	0.0000	135.8738
Total	**0.1408**	**1.4300**	**1.0080**	**1.4800e-003**		**0.0921**	**0.0921**		**0.0847**	**0.0847**	**0.0000**	**134.9913**	**134.9913**	**0.0420**	**0.0000**	**135.8738**

3.3 Building Construction - 2018

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	0.0507	0.5047	0.7042	1.4400e-003	0.0410	7.9300e-003	0.0489	0.0117	7.2900e-003	0.0190	0.0000	126.9870	126.9870	9.2000e-004	0.0000	127.0064
Worker	0.0964	0.1441	1.4958	4.0200e-003	0.3279	2.6200e-003	0.3305	0.0871	2.4200e-003	0.0895	0.0000	284.3639	284.3639	0.0142	0.0000	284.6613
Total	**0.1471**	**0.6488**	**2.2000**	**5.4600e-003**	**0.3688**	**0.0106**	**0.3794**	**0.0988**	**9.7100e-003**	**0.1085**	**0.0000**	**411.3509**	**411.3509**	**0.0151**	**0.0000**	**411.6676**

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	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847	0.0000	134.9912	134.9912	0.0420	0.0000	135.8737
Total	**0.1408**	**1.4300**	**1.0080**	**1.4800e-003**		**0.0921**	**0.0921**		**0.0847**	**0.0847**	**0.0000**	**134.9912**	**134.9912**	**0.0420**	**0.0000**	**135.8737**

3.3 Building Construction - 2018

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	0.0507	0.5047	0.7042	1.4400e-003	0.0707	7.9300e-003	0.0786	0.0190	7.2900e-003	0.0263	0.0000	126.9870	126.9870	9.2000e-004	0.0000	127.0064
Worker	0.0964	0.1441	1.4958	4.0200e-003	0.6121	2.6200e-003	0.6147	0.1568	2.4200e-003	0.1593	0.0000	284.3639	284.3639	0.0142	0.0000	284.6613
Total	**0.1471**	**0.6488**	**2.2000**	**5.4600e-003**	**0.6828**	**0.0106**	**0.6933**	**0.1758**	**9.7100e-003**	**0.1855**	**0.0000**	**411.3509**	**411.3509**	**0.0151**	**0.0000**	**411.6676**

3.3 Building Construction - 2019

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	0.0624	0.6390	0.4925	7.4000e-004		0.0395	0.0395		0.0363	0.0363	0.0000	66.6395	66.6395	0.0211	0.0000	67.0822
Total	**0.0624**	**0.6390**	**0.4925**	**7.4000e-004**		**0.0395**	**0.0395**		**0.0363**	**0.0363**	**0.0000**	**66.6395**	**66.6395**	**0.0211**	**0.0000**	**67.0822**

3.3 Building Construction - 2019

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	0.0241	0.2336	0.3415	7.2000e-004	0.0206	3.7700e-003	0.0243	5.8700e-003	3.4700e-003	9.3400e-003	0.0000	62.4938	62.4938	4.5000e-004	0.0000	62.5033
Worker	0.0444	0.0663	0.6884	2.0200e-003	0.1646	1.2900e-003	0.1659	0.0437	1.2000e-003	0.0449	0.0000	137.2946	137.2946	6.6500e-003	0.0000	137.4343
Total	**0.0685**	**0.2999**	**1.0299**	**2.7400e-003**	**0.1851**	**5.0600e-003**	**0.1902**	**0.0496**	**4.6700e-003**	**0.0542**	**0.0000**	**199.7884**	**199.7884**	**7.1000e-003**	**0.0000**	**199.9376**

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	0.0624	0.6390	0.4925	7.4000e-004		0.0395	0.0395		0.0363	0.0363	0.0000	66.6394	66.6394	0.0211	0.0000	67.0822
Total	**0.0624**	**0.6390**	**0.4925**	**7.4000e-004**		**0.0395**	**0.0395**		**0.0363**	**0.0363**	**0.0000**	**66.6394**	**66.6394**	**0.0211**	**0.0000**	**67.0822**

3.3 Building Construction - 2019

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	0.0241	0.2336	0.3415	7.2000e-004	0.0355	3.7700e-003	0.0393	9.5300e-003	3.4700e-003	0.0130	0.0000	62.4938	62.4938	4.5000e-004	0.0000	62.5033
Worker	0.0444	0.0663	0.6884	2.0200e-003	0.3072	1.2900e-003	0.3085	0.0787	1.2000e-003	0.0799	0.0000	137.2946	137.2946	6.6500e-003	0.0000	137.4343
Total	**0.0685**	**0.2999**	**1.0299**	**2.7400e-003**	**0.3427**	**5.0600e-003**	**0.3478**	**0.0883**	**4.6700e-003**	**0.0929**	**0.0000**	**199.7884**	**199.7884**	**7.1000e-003**	**0.0000**	**199.9376**

3.4 Architectural Coating - 2018

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	1.0863					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1514	0.1400	2.2000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.2771	19.2771	1.8300e-003	0.0000	19.3156
Total	**1.1088**	**0.1514**	**0.1400**	**2.2000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**19.2771**	**19.2771**	**1.8300e-003**	**0.0000**	**19.3156**

3.4 Architectural Coating - 2018

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	0.0112	0.0168	0.1738	4.7000e-004	0.0381	3.0000e-004	0.0384	0.0101	2.8000e-004	0.0104	0.0000	33.0471	33.0471	1.6500e-003	0.0000	33.0817
Total	**0.0112**	**0.0168**	**0.1738**	**4.7000e-004**	**0.0381**	**3.0000e-004**	**0.0384**	**0.0101**	**2.8000e-004**	**0.0104**	**0.0000**	**33.0471**	**33.0471**	**1.6500e-003**	**0.0000**	**33.0817**

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	1.0863					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1514	0.1400	2.2000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.2771	19.2771	1.8300e-003	0.0000	19.3155
Total	**1.1088**	**0.1514**	**0.1400**	**2.2000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**19.2771**	**19.2771**	**1.8300e-003**	**0.0000**	**19.3155**

3.4 Architectural Coating - 2018

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	0.0112	0.0168	0.1738	4.7000e-004	0.0711	3.0000e-004	0.0714	0.0182	2.8000e-004	0.0185	0.0000	33.0471	33.0471	1.6500e-003	0.0000	33.0817
Total	**0.0112**	**0.0168**	**0.1738**	**4.7000e-004**	**0.0711**	**3.0000e-004**	**0.0714**	**0.0182**	**2.8000e-004**	**0.0185**	**0.0000**	**33.0471**	**33.0471**	**1.6500e-003**	**0.0000**	**33.0817**

3.4 Architectural Coating - 2019

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	0.9424					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1202	0.1206	1.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	16.7238	16.7238	1.4100e-003	0.0000	16.7535
Total	**0.9598**	**0.1202**	**0.1206**	**1.9000e-004**		**8.4300e-003**	**8.4300e-003**		**8.4300e-003**	**8.4300e-003**	**0.0000**	**16.7238**	**16.7238**	**1.4100e-003**	**0.0000**	**16.7535**

3.4 Architectural Coating - 2019

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	8.9300e-003	0.0133	0.1383	4.0000e-004	0.0331	2.6000e-004	0.0333	8.7800e-003	2.4000e-004	9.0200e-003	0.0000	27.5788	27.5788	1.3400e-003	0.0000	27.6069
Total	**8.9300e-003**	**0.0133**	**0.1383**	**4.0000e-004**	**0.0331**	**2.6000e-004**	**0.0333**	**8.7800e-003**	**2.4000e-004**	**9.0200e-003**	**0.0000**	**27.5788**	**27.5788**	**1.3400e-003**	**0.0000**	**27.6069**

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	0.9424					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1202	0.1206	1.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	16.7238	16.7238	1.4100e-003	0.0000	16.7535
Total	**0.9598**	**0.1202**	**0.1206**	**1.9000e-004**		**8.4300e-003**	**8.4300e-003**		**8.4300e-003**	**8.4300e-003**	**0.0000**	**16.7238**	**16.7238**	**1.4100e-003**	**0.0000**	**16.7535**

3.4 Architectural Coating - 2019

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	8.9300e-003	0.0133	0.1383	4.0000e-004	0.0617	2.6000e-004	0.0620	0.0158	2.4000e-004	0.0161	0.0000	27.5788	27.5788	1.3400e-003	0.0000	27.6069
Total	**8.9300e-003**	**0.0133**	**0.1383**	**4.0000e-004**	**0.0617**	**2.6000e-004**	**0.0620**	**0.0158**	**2.4000e-004**	**0.0161**	**0.0000**	**27.5788**	**27.5788**	**1.3400e-003**	**0.0000**	**27.6069**

3.5 Paving - 2019

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	0.0164	0.1548	0.1410	2.2000e-004		8.7500e-003	8.7500e-003		8.1200e-003	8.1200e-003	0.0000	18.8607	18.8607	5.3800e-003	0.0000	18.9737
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1548**	**0.1410**	**2.2000e-004**		**8.7500e-003**	**8.7500e-003**		**8.1200e-003**	**8.1200e-003**	**0.0000**	**18.8607**	**18.8607**	**5.3800e-003**	**0.0000**	**18.9737**

3.5 Paving - 2019

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	1.0700e-003	1.5900e-003	0.0165	5.0000e-005	3.9500e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.2952	3.2952	1.6000e-004	0.0000	3.2985
Total	**1.0700e-003**	**1.5900e-003**	**0.0165**	**5.0000e-005**	**3.9500e-003**	**3.0000e-005**	**3.9800e-003**	**1.0500e-003**	**3.0000e-005**	**1.0800e-003**	**0.0000**	**3.2952**	**3.2952**	**1.6000e-004**	**0.0000**	**3.2985**

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	0.0164	0.1548	0.1410	2.2000e-004		8.7500e-003	8.7500e-003		8.1200e-003	8.1200e-003	0.0000	18.8607	18.8607	5.3800e-003	0.0000	18.9737
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1548**	**0.1410**	**2.2000e-004**		**8.7500e-003**	**8.7500e-003**		**8.1200e-003**	**8.1200e-003**	**0.0000**	**18.8607**	**18.8607**	**5.3800e-003**	**0.0000**	**18.9737**

3.5 Paving - 2019

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	1.0700e-003	1.5900e-003	0.0165	5.0000e-005	7.3700e-003	3.0000e-005	7.4000e-003	1.8900e-003	3.0000e-005	1.9200e-003	0.0000	3.2952	3.2952	1.6000e-004	0.0000	3.2985
Total	**1.0700e-003**	**1.5900e-003**	**0.0165**	**5.0000e-005**	**7.3700e-003**	**3.0000e-005**	**7.4000e-003**	**1.8900e-003**	**3.0000e-005**	**1.9200e-003**	**0.0000**	**3.2952**	**3.2952**	**1.6000e-004**	**0.0000**	**3.2985**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	1.0900	2.5226	10.5360	0.0279	3.4758	0.0384	3.5142	0.8947	0.0354	0.9301	0.0000	1,957.8210	1,957.8210	0.0721	0.0000	1,959.3359
Unmitigated	1.1529	3.0106	12.1235	0.0345	4.3362	0.0470	4.3831	1.1162	0.0433	1.1595	0.0000	2,422.4359	2,422.4359	0.0879	0.0000	2,424.2817

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,383.46	1,582.36	1341.47	4,804,091	3,850,888
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,041.45	992.98	826.64	1,368,058	1,096,615
Total	2,424.91	2,575.34	2,168.11	6,172,149	4,947,503

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	494.0961	494.0961	0.0227	4.7000e-003	496.0297
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	619.0897	619.0897	0.0285	5.8900e-003	621.5125
NaturalGas Mitigated	0.0169	0.1483	0.0913	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	166.9951	166.9951	3.2000e-003	3.0600e-003	168.0114
NaturalGas Unmitigated	0.0197	0.1726	0.1032	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	194.9596	194.9596	3.7400e-003	3.5700e-003	196.1461

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					
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
High Turnover (Sit Down Restaurant)	1.46097e+006	7.8800e-003	0.0716	0.0602	4.3000e-004		5.4400e-003	5.4400e-003		5.4400e-003	5.4400e-003	0.0000	77.9631	77.9631	1.4900e-003	1.4300e-003	78.4375
Apartments High Rise	2.19243e+006	0.0118	0.1010	0.0430	6.4000e-004		8.1700e-003	8.1700e-003		8.1700e-003	8.1700e-003	0.0000	116.9966	116.9966	2.2400e-003	2.1400e-003	117.7086
Total		**0.0197**	**0.1726**	**0.1032**	**1.0700e-003**		**0.0136**	**0.0136**		**0.0136**	**0.0136**	**0.0000**	**194.9596**	**194.9596**	**3.7300e-003**	**3.5700e-003**	**196.1461**

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					
High Turnover (Sit Down Restaurant)	1.39007e+006	7.5000e-003	0.0681	0.0572	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	74.1797	74.1797	1.4200e-003	1.3600e-003	74.6311
Apartments High Rise	1.73929e+006	9.3800e-003	0.0801	0.0341	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.8154	92.8154	1.7800e-003	1.7000e-003	93.3803
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
Total		**0.0169**	**0.1483**	**0.0913**	**9.2000e-004**		**0.0117**	**0.0117**		**0.0117**	**0.0117**	**0.0000**	**166.9951**	**166.9951**	**3.2000e-003**	**3.0600e-003**	**168.0114**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	782773	224.0038	0.0103	2.1300e-003	224.8804
Enclosed Parking with Elevator	1.08649e+006	310.9169	0.0143	2.9600e-003	312.1337
High Turnover (Sit Down Restaurant)	294126	84.1690	3.8700e-003	8.0000e-004	84.4984
Total		**619.0897**	**0.0285**	**5.8900e-003**	**621.5125**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	687281	196.6772	9.0400e-003	1.8700e-003	197.4469
Enclosed Parking with Elevator	780127	223.2466	0.0103	2.1200e-003	224.1203
High Turnover (Sit Down Restaurant)	259192	74.1723	3.4100e-003	7.1000e-004	74.4626
Total		**494.0961**	**0.0227**	**4.7000e-003**	**496.0298**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	1.6767	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Unmitigated	1.7349	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098

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	0.2611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4037					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	0.0701	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Total	**1.7350**	**0.0265**	**2.2919**	**1.2000e-004**		**0.0126**	**0.0126**		**0.0126**	**0.0126**	**0.0000**	**3.7330**	**3.7330**	**3.6600e-003**	**0.0000**	**3.8098**

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	0.2029					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4037					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	0.0701	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Total	**1.6767**	**0.0265**	**2.2919**	**1.2000e-004**		**0.0126**	**0.0126**		**0.0126**	**0.0126**	**0.0000**	**3.7330**	**3.7330**	**3.6600e-003**	**0.0000**	**3.8098**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	81.9804	0.4285	0.0108	94.3134
Unmitigated	95.1638	0.5353	0.0134	110.5596

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	14.399 / 9.07766	87.0823	0.4730	0.0119	100.6926
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.90316 / 0.121478	8.0815	0.0624	1.5400e-003	9.8670
Total		**95.1638**	**0.5354**	**0.0134**	**110.5596**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	11.5192 / 9.07766	75.4380	0.3786	9.5300e-003	86.3430
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.52253 / 0.121478	6.5425	0.0499	1.2300e-003	7.9704
Total		**81.9804**	**0.4285**	**0.0108**	**94.3134**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	35.7812	2.1146	0.0000	80.1880
Unmitigated	35.7812	2.1146	0.0000	80.1880

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	101.66	20.6361	1.2196	0.0000	46.2467
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	74.61	15.1452	0.8951	0.0000	33.9413
Total		**35.7812**	**2.1146**	**0.0000**	**80.1880**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	101.66	20.6361	1.2196	0.0000	46.2467
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	74.61	15.1452	0.8951	0.0000	33.9413
Total		**35.7812**	**2.1146**	**0.0000**	**80.1880**

9.0 Operational Offroad

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

10.0 Vegetation

Approved Shoreline Gateway East Tower Project

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	403.00	Space	0.00	161,200.00	0
High Turnover (Sit Down Restaurant)	6.27	1000sqft	0.00	6,270.00	0
Apartments High Rise	221.00	Dwelling Unit	0.60	221,000.00	632

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Ttotal lot acreage for all uses = 0. estimated from site plans

Construction Phase - Based on construction details

Off-road Equipment - Bore/drill Rig added to account for pile driving during the grading and excavation phase

Trips and VMT - Applicant details - 14 CY trucks

Grading - Total lot acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1114 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA

Woodstoves - Based on site plans

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assummed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only accounts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68

tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00
tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	187.85	0.00
tblFireplaces	NumberNoFireplace	22.10	0.00
tblFireplaces	NumberWood	11.05	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LotAcreage	3.63	0.00
tblLandUse	LotAcreage	0.14	0.00
tblLandUse	LotAcreage	3.56	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.26
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	11.05	0.00
tblWoodstoves	NumberNoncatalytic	11.05	0.00

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	2.5215	25.9358	26.2669	0.0586	2.8785	0.9653	3.8186	0.7697	0.9126	1.6695	0.0000	5,769.6361	5,769.6361	0.4919	0.0000	5,779.9656
2018	17.0588	17.8399	28.8042	0.0643	3.3927	0.9406	4.3333	0.9060	0.8775	1.7835	0.0000	5,527.2317	5,527.2317	0.5330	0.0000	5,538.4257
2019	17.6830	23.8933	35.1596	0.0778	3.5939	1.2514	4.8453	0.9594	1.1652	2.1246	0.0000	6,602.9184	6,602.9184	0.8261	0.0000	6,620.2659
Total	**37.2634**	**67.6691**	**90.2307**	**0.2007**	**9.8651**	**3.1573**	**12.9972**	**2.6350**	**2.9553**	**5.5776**	**0.0000**	**17,899.7862**	**17,899.7862**	**1.8510**	**0.0000**	**17,938.6571**

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					
2017	2.5215	25.9358	26.2669	0.0586	5.3365	0.9653	6.2766	1.3730	0.9126	2.2379	0.0000	5,769.6361	5,769.6361	0.4919	0.0000	5,779.9656
2018	17.0588	17.8399	28.8042	0.0643	6.2976	0.9406	7.2382	1.6190	0.8775	2.4966	0.0000	5,527.2317	5,527.2317	0.5330	0.0000	5,538.4257
2019	17.6830	23.8933	35.1596	0.0778	6.6738	1.2514	7.9251	1.7153	1.1652	2.8805	0.0000	6,602.9184	6,602.9184	0.8261	0.0000	6,620.2659
Total	**37.2634**	**67.6691**	**90.2307**	**0.2007**	**18.3079**	**3.1573**	**21.4399**	**4.7073**	**2.9553**	**7.6150**	**0.0000**	**17,899.7862**	**17,899.7862**	**1.8510**	**0.0000**	**17,938.6571**

	ROG	NOx	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**	**-85.58**	**0.00**	**-64.96**	**-78.64**	**0.00**	**-36.53**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	9.6833	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Energy	0.1079	0.9460	0.5652	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,177.5682	1,177.5682	0.0226	0.0216	1,184.7347
Mobile	7.0772	17.0615	72.5587	0.2182	26.8773	0.2849	27.1622	6.9121	0.2628	7.1749		16,845.4907	16,845.4907	0.5883		16,857.8441
Total	**16.8684**	**18.2195**	**91.4593**	**0.2250**	**26.8773**	**0.4603**	**27.3375**	**6.9121**	**0.4381**	**7.3502**	**0.0000**	**18,055.9785**	**18,055.9785**	**0.6431**	**0.0216**	**18,076.1758**

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	9.3643	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Energy	0.0925	0.8125	0.5005	5.0400e-003		0.0639	0.0639		0.0639	0.0639		1,008.6606	1,008.6606	0.0193	0.0185	1,014.7992
Mobile	6.6849	14.3186	62.0633	0.1763	21.5444	0.2326	21.7770	5.5406	0.2146	5.7552		13,610.8526	13,610.8526	0.4826		13,620.9866
Total	**16.1416**	**15.3431**	**80.8992**	**0.1823**	**21.5444**	**0.3972**	**21.9416**	**5.5406**	**0.3792**	**5.9198**	**0.0000**	**14,652.4329**	**14,652.4329**	**0.5342**	**0.0185**	**14,669.3827**

	ROG	NOx	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	**4.31**	**15.79**	**11.55**	**19.00**	**19.84**	**13.69**	**19.74**	**19.84**	**13.45**	**19.46**	**0.00**	**18.85**	**18.85**	**16.94**	**14.36**	**18.85**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 447,525; Residential Outdoor: 149,175; Non-Residential Indoor: 251,205; Non-Residential Outdoor: 83,735 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1		205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	229.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	46.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8562	0.0000	0.8562	0.4291	0.0000	0.4291			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.8131	1,183.8131	0.2333		1,188.7118
Total	**1.2049**	**10.4761**	**8.5825**	**0.0120**	**0.8562**	**0.7266**	**1.5827**	**0.4291**	**0.6930**	**1.1221**		**1,183.8131**	**1,183.8131**	**0.2333**		**1,188.7118**

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	0.9881	15.3986	11.3158	0.0447	1.0563	0.2376	1.2939	0.2893	0.2185	0.5078		4,437.0955	4,437.0955	0.0317		4,437.7609
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	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.7275	148.7275	7.3200e-003		148.8811
Total	**1.0367**	**15.4598**	**12.0789**	**0.0466**	**1.2016**	**0.2387**	**1.4404**	**0.3278**	**0.2196**	**0.5474**		**4,585.8230**	**4,585.8230**	**0.0390**		**4,586.6420**

3.2 Grading - 2017

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					0.5479	0.0000	0.5479	0.2746	0.0000	0.2746			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.8131	1,183.8131	0.2333		1,188.7118
Total	**1.2049**	**10.4761**	**8.5825**	**0.0120**	**0.5479**	**0.7266**	**1.2745**	**0.2746**	**0.6930**	**0.9676**	**0.0000**	**1,183.8131**	**1,183.8131**	**0.2333**		**1,188.7118**

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	0.9881	15.3986	11.3158	0.0447	1.8579	0.2376	2.0955	0.4860	0.2185	0.7046		4,437.0955	4,437.0955	0.0317		4,437.7609
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	0.0487	0.0611	0.7632	1.8400e-003	0.2716	1.1700e-003	0.2728	0.0695	1.0800e-003	0.0706		148.7275	148.7275	7.3200e-003		148.8811
Total	**1.0367**	**15.4598**	**12.0789**	**0.0466**	**2.1295**	**0.2387**	**2.3683**	**0.5556**	**0.2196**	**0.7752**		**4,585.8230**	**4,585.8230**	**0.0390**		**4,586.6420**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**		**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.3905	4.0329	4.7843	0.0111	0.3188	0.0642	0.3830	0.0908	0.0590	0.1498		1,094.8025	1,094.8025	7.7200e-003		1,094.9647
Worker	0.8570	1.0767	13.4431	0.0324	2.5597	0.0206	2.5803	0.6788	0.0190	0.6978		2,619.8918	2,619.8918	0.1289		2,622.5983
Total	**1.2476**	**5.1096**	**18.2274**	**0.0435**	**2.8785**	**0.0848**	**2.9633**	**0.7697**	**0.0780**	**0.8477**		**3,714.6943**	**3,714.6943**	**0.1366**		**3,717.5629**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**	**0.0000**	**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.3905	4.0329	4.7843	0.0111	0.5515	0.0642	0.6156	0.1479	0.0590	0.2069		1,094.8025	1,094.8025	7.7200e-003		1,094.9647
Worker	0.8570	1.0767	13.4431	0.0324	4.7850	0.0206	4.8056	1.2251	0.0190	1.2440		2,619.8918	2,619.8918	0.1289		2,622.5983
Total	**1.2476**	**5.1096**	**18.2274**	**0.0435**	**5.3364**	**0.0848**	**5.4212**	**1.3730**	**0.0780**	**1.4510**		**3,714.6943**	**3,714.6943**	**0.1366**		**3,717.5629**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491		1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**		**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.3663	3.7034	4.5582	0.0111	0.3188	0.0605	0.3793	0.0908	0.0556	0.1465		1,076.4436	1,076.4436	7.6700e-003		1,076.6048
Worker	0.7727	0.9768	12.2144	0.0324	2.5597	0.0200	2.5797	0.6788	0.0186	0.6974		2,522.4065	2,522.4065	0.1196		2,524.9186
Total	**1.1390**	**4.6802**	**16.7726**	**0.0435**	**2.8785**	**0.0805**	**2.9591**	**0.7697**	**0.0742**	**0.8438**		**3,598.8502**	**3,598.8502**	**0.1273**		**3,601.5234**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491	0.0000	1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**	**0.0000**	**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.3663	3.7034	4.5582	0.0111	0.5515	0.0605	0.6120	0.1479	0.0556	0.2036		1,076.4436	1,076.4436	7.6700e-003		1,076.6048
Worker	0.7727	0.9768	12.2144	0.0324	4.7850	0.0200	4.8050	1.2251	0.0186	1.2436		2,522.4065	2,522.4065	0.1196		2,524.9186
Total	**1.1390**	**4.6802**	**16.7726**	**0.0435**	**5.3365**	**0.0805**	**5.4170**	**1.3730**	**0.0742**	**1.4472**		**3,598.8502**	**3,598.8502**	**0.1273**		**3,601.5234**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544		1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**		**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.3469	3.4165	4.3869	0.0110	0.3189	0.0574	0.3763	0.0908	0.0528	0.1436		1,055.4682	1,055.4682	7.5300e-003		1,055.6263
Worker	0.7112	0.8959	11.2256	0.0323	2.5597	0.0197	2.5794	0.6788	0.0183	0.6971		2,426.7731	2,426.7731	0.1120		2,429.1246
Total	**1.0581**	**4.3125**	**15.6125**	**0.0434**	**2.8785**	**0.0771**	**2.9556**	**0.7697**	**0.0711**	**0.8407**		**3,482.2413**	**3,482.2413**	**0.1195**		**3,484.7509**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544	0.0000	1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**	**0.0000**	**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.3469	3.4165	4.3869	0.0110	0.5515	0.0574	0.6089	0.1479	0.0528	0.2007		1,055.4682	1,055.4682	7.5300e-003		1,055.6263
Worker	0.7112	0.8959	11.2256	0.0323	4.7850	0.0197	4.8047	1.2251	0.0183	1.2433		2,426.7731	2,426.7731	0.1120		2,429.1246
Total	**1.0581**	**4.3125**	**15.6125**	**0.0434**	**5.3365**	**0.0771**	**5.4136**	**1.3730**	**0.0711**	**1.4440**		**3,482.2413**	**3,482.2413**	**0.1195**		**3,484.7509**

3.4 Architectural Coating - 2018

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**14.6860**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.1552	0.1962	2.4535	6.5100e-003	0.5142	4.0300e-003	0.5182	0.1364	3.7300e-003	0.1401		506.6843	506.6843	0.0240		507.1889
Total	**0.1552**	**0.1962**	**2.4535**	**6.5100e-003**	**0.5142**	**4.0300e-003**	**0.5182**	**0.1364**	**3.7300e-003**	**0.1401**		**506.6843**	**506.6843**	**0.0240**		**507.1889**

3.4 Architectural Coating - 2018

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**14.6860**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.1552	0.1962	2.4535	6.5100e-003	0.9612	4.0300e-003	0.9652	0.2461	3.7300e-003	0.2498		506.6843	506.6843	0.0240		507.1889
Total	**0.1552**	**0.1962**	**2.4535**	**6.5100e-003**	**0.9612**	**4.0300e-003**	**0.9652**	**0.2461**	**3.7300e-003**	**0.2498**		**506.6843**	**506.6843**	**0.0240**		**507.1889**

3.4 Architectural Coating - 2019

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**14.6538**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1429	0.1800	2.2549	6.5000e-003	0.5142	3.9500e-003	0.5181	0.1364	3.6700e-003	0.1400		487.4741	487.4741	0.0225		487.9464
Total	**0.1429**	**0.1800**	**2.2549**	**6.5000e-003**	**0.5142**	**3.9500e-003**	**0.5181**	**0.1364**	**3.6700e-003**	**0.1400**		**487.4741**	**487.4741**	**0.0225**		**487.9464**

3.4 Architectural Coating - 2019

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**14.6538**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1429	0.1800	2.2549	6.5000e-003	0.9612	3.9500e-003	0.9651	0.2461	3.6700e-003	0.2498		487.4741	487.4741	0.0225		487.9464
Total	**0.1429**	**0.1800**	**2.2549**	**6.5000e-003**	**0.9612**	**3.9500e-003**	**0.9651**	**0.2461**	**3.6700e-003**	**0.2498**		**487.4741**	**487.4741**	**0.0225**		**487.9464**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059		1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**		**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0559	0.0704	0.8824	2.5400e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		190.7507	190.7507	8.8000e-003		190.9356
Total	**0.0559**	**0.0704**	**0.8824**	**2.5400e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**190.7507**	**190.7507**	**8.8000e-003**		**190.9356**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059	0.0000	1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**	**0.0000**	**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0559	0.0704	0.8824	2.5400e-003	0.3761	1.5500e-003	0.3777	0.0963	1.4300e-003	0.0977		190.7507	190.7507	8.8000e-003		190.9356
Total	**0.0559**	**0.0704**	**0.8824**	**2.5400e-003**	**0.3761**	**1.5500e-003**	**0.3777**	**0.0963**	**1.4300e-003**	**0.0977**		**190.7507**	**190.7507**	**8.8000e-003**		**190.9356**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.6849	14.3186	62.0633	0.1763	21.5444	0.2326	21.7770	5.5406	0.2146	5.7552		13,610.8526	13,610.8526	0.4826		13,620.9866
Unmitigated	7.0772	17.0615	72.5587	0.2182	26.8773	0.2849	27.1622	6.9121	0.2628	7.1749		16,845.4907	16,845.4907	0.5883		16,857.8441

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,383.46	1,582.36	1341.47	4,804,091	3,850,888
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,041.45	992.98	826.64	1,368,058	1,096,615
Total	2,424.91	2,575.34	2,168.11	6,172,149	4,947,503

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0925	0.8125	0.5005	5.0400e-003		0.0639	0.0639		0.0639	0.0639		1,008.6606	1,008.6606	0.0193	0.0185	1,014.7992
NaturalGas Unmitigated	0.1079	0.9460	0.5652	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,177.5682	1,177.5682	0.0226	0.0216	1,184.7347

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4002.66	0.0432	0.3924	0.3296	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.9018	470.9018	9.0300e-003	8.6300e-003	473.7676
Apartments High Rise	6006.66	0.0648	0.5536	0.2356	3.5300e-003		0.0448	0.0448		0.0448	0.0448		706.6665	706.6665	0.0135	0.0130	710.9671
Total		**0.1080**	**0.9460**	**0.5652**	**5.8800e-003**		**0.0746**	**0.0746**		**0.0746**	**0.0746**		**1,177.5682**	**1,177.5682**	**0.0226**	**0.0216**	**1,184.7347**

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					
High Turnover (Sit Down Restaurant)	3.80842	0.0411	0.3734	0.3136	2.2400e-003		0.0284	0.0284		0.0284	0.0284		448.0499	448.0499	8.5900e-003	8.2100e-003	450.7766
Apartments High Rise	4.76519	0.0514	0.4392	0.1869	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.6108	560.6108	0.0108	0.0103	564.0225
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
Total		**0.0925**	**0.8125**	**0.5005**	**5.0400e-003**		**0.0639**	**0.0639**		**0.0639**	**0.0639**		**1,008.6606**	**1,008.6606**	**0.0193**	**0.0185**	**1,014.7992**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.3643	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Unmitigated	9.6833	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6917					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	0.5610	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007		32.9196	32.9196	0.0323		33.5969
Total	**9.6833**	**0.2120**	**18.3354**	**9.7000e-004**		**0.1007**	**0.1007**		**0.1007**	**0.1007**	**0.0000**	**32.9196**	**32.9196**	**0.0323**	**0.0000**	**33.5969**

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	1.1116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6917					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	0.5610	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007		32.9196	32.9196	0.0323		33.5969
Total	**9.3643**	**0.2120**	**18.3354**	**9.7000e-004**		**0.1007**	**0.1007**		**0.1007**	**0.1007**	**0.0000**	**32.9196**	**32.9196**	**0.0323**	**0.0000**	**33.5969**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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 Vegetation

Approved Shoreline Gateway East Tower Project

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	403.00	Space	0.00	161,200.00	0
High Turnover (Sit Down Restaurant)	6.27	1000sqft	0.00	6,270.00	0
Apartments High Rise	221.00	Dwelling Unit	0.60	221,000.00	632

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Ttotal lot acreage for all uses = 0. estimated from site plans

Construction Phase - Based on construction details

Off-road Equipment - Bore/drill Rig added to account for pile driving during the grading and excavation phase

Trips and VMT - Applicant details - 14 CY trucks

Grading - Total lot acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1114 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA

Woodstoves - Based on site plans

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assummed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only accounts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68

tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00
tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	187.85	0.00
tblFireplaces	NumberNoFireplace	22.10	0.00
tblFireplaces	NumberWood	11.05	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LotAcreage	3.63	0.00
tblLandUse	LotAcreage	0.14	0.00
tblLandUse	LotAcreage	3.56	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.26
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	11.05	0.00
tblWoodstoves	NumberNoncatalytic	11.05	0.00

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	2.5747	26.4983	26.1842	0.0584	2.8785	0.9659	3.8192	0.7697	0.9131	1.6700	0.0000	5,749.8325	5,749.8325	0.4921	0.0000	5,760.1670
2018	17.1076	18.0442	28.5605	0.0618	3.3927	0.9412	4.3339	0.9060	0.8781	1.7841	0.0000	5,329.2383	5,329.2383	0.5333	0.0000	5,340.4374
2019	17.7282	24.0857	34.8936	0.0751	3.5939	1.2519	4.8458	0.9594	1.1657	2.1250	0.0000	6,399.8522	6,399.8522	0.8263	0.0000	6,417.2050
Total	**37.4104**	**68.6282**	**89.6382**	**0.1952**	**9.8651**	**3.1589**	**12.9989**	**2.6350**	**2.9568**	**5.5791**	**0.0000**	**17,478.9230**	**17,478.9230**	**1.8517**	**0.0000**	**17,517.8095**

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					
2017	2.5747	26.4983	26.1842	0.0584	5.3365	0.9659	6.2772	1.3730	0.9131	2.2385	0.0000	5,749.8325	5,749.8325	0.4921	0.0000	5,760.1670
2018	17.1076	18.0442	28.5605	0.0618	6.2976	0.9412	7.2388	1.6190	0.8781	2.4971	0.0000	5,329.2383	5,329.2383	0.5333	0.0000	5,340.4374
2019	17.7282	24.0857	34.8936	0.0751	6.6738	1.2519	7.9256	1.7153	1.1657	2.8810	0.0000	6,399.8522	6,399.8522	0.8263	0.0000	6,417.2050
Total	**37.4104**	**68.6282**	**89.6382**	**0.1952**	**18.3079**	**3.1589**	**21.4416**	**4.7073**	**2.9568**	**7.6166**	**0.0000**	**17,478.9230**	**17,478.9230**	**1.8517**	**0.0000**	**17,517.8095**

	ROG	NOx	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**	**-85.58**	**0.00**	**-64.95**	**-78.64**	**0.00**	**-36.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	9.6833	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Energy	0.1079	0.9460	0.5652	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,177.5682	1,177.5682	0.0226	0.0216	1,184.7347
Mobile	7.3152	17.8951	72.8471	0.2072	26.8773	0.2861	27.1633	6.9121	0.2639	7.1759		16,043.4564	16,043.4564	0.5891		16,055.8268
Total	**17.1064**	**19.0531**	**91.7478**	**0.2141**	**26.8773**	**0.4614**	**27.3386**	**6.9121**	**0.4392**	**7.3512**	**0.0000**	**17,253.9443**	**17,253.9443**	**0.6439**	**0.0216**	**17,274.1584**

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	9.3643	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Energy	0.0925	0.8125	0.5005	5.0400e-003		0.0639	0.0639		0.0639	0.0639		1,008.6606	1,008.6606	0.0193	0.0185	1,014.7992
Mobile	6.9370	14.9915	63.4634	0.1675	21.5444	0.2338	21.7782	5.5406	0.2156	5.7562		12,963.4257	12,963.4257	0.4834		12,973.5766
Total	**16.3938**	**16.0160**	**82.2993**	**0.1735**	**21.5444**	**0.3984**	**21.9428**	**5.5406**	**0.3802**	**5.9208**	**0.0000**	**14,005.0059**	**14,005.0059**	**0.5350**	**0.0185**	**14,021.9727**

	ROG	NOx	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	**4.17**	**15.94**	**10.30**	**18.97**	**19.84**	**13.66**	**19.74**	**19.84**	**13.42**	**19.46**	**0.00**	**18.83**	**18.83**	**16.92**	**14.36**	**18.83**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 447,525; Residential Outdoor: 149,175; Non-Residential Indoor: 251,205; Non-Residential Outdoor: 83,735 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1		205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	229.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	46.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8562	0.0000	0.8562	0.4291	0.0000	0.4291			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.8131	1,183.8131	0.2333		1,188.7118
Total	**1.2049**	**10.4761**	**8.5825**	**0.0120**	**0.8562**	**0.7266**	**1.5827**	**0.4291**	**0.6930**	**1.1221**		**1,183.8131**	**1,183.8131**	**0.2333**		**1,188.7118**

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	1.0394	15.9551	13.0481	0.0446	1.0563	0.2381	1.2944	0.2893	0.2190	0.5083		4,426.5494	4,426.5494	0.0321		4,427.2240
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	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.4700	139.4700	7.3200e-003		139.6236
Total	**1.0890**	**16.0223**	**13.7491**	**0.0464**	**1.2016**	**0.2393**	**1.4409**	**0.3278**	**0.2201**	**0.5479**		**4,566.0193**	**4,566.0193**	**0.0394**		**4,566.8476**

3.2 Grading - 2017

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					0.5479	0.0000	0.5479	0.2746	0.0000	0.2746			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.8131	1,183.8131	0.2333		1,188.7118
Total	**1.2049**	**10.4761**	**8.5825**	**0.0120**	**0.5479**	**0.7266**	**1.2745**	**0.2746**	**0.6930**	**0.9676**	**0.0000**	**1,183.8131**	**1,183.8131**	**0.2333**		**1,188.7118**

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	1.0394	15.9551	13.0481	0.0446	1.8579	0.2381	2.0960	0.4860	0.2190	0.7050		4,426.5494	4,426.5494	0.0321		4,427.2240
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	0.0496	0.0671	0.7010	1.7200e-003	0.2716	1.1700e-003	0.2728	0.0695	1.0800e-003	0.0706		139.4700	139.4700	7.3200e-003		139.6236
Total	**1.0890**	**16.0223**	**13.7491**	**0.0464**	**2.1295**	**0.2393**	**2.3688**	**0.5556**	**0.2201**	**0.7757**		**4,566.0193**	**4,566.0193**	**0.0394**		**4,566.8476**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**		**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.4265	4.1324	5.7965	0.0110	0.3188	0.0648	0.3836	0.0908	0.0596	0.1504		1,085.6057	1,085.6057	7.9600e-003		1,085.7729
Worker	0.8742	1.1824	12.3481	0.0304	2.5597	0.0206	2.5803	0.6788	0.0190	0.6978		2,456.8170	2,456.8170	0.1289		2,459.5236
Total	**1.3007**	**5.3148**	**18.1446**	**0.0414**	**2.8785**	**0.0854**	**2.9639**	**0.7697**	**0.0786**	**0.8483**		**3,542.4228**	**3,542.4228**	**0.1368**		**3,545.2965**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**	**0.0000**	**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.4265	4.1324	5.7965	0.0110	0.5515	0.0648	0.6163	0.1479	0.0596	0.2075		1,085.6057	1,085.6057	7.9600e-003		1,085.7729
Worker	0.8742	1.1824	12.3481	0.0304	4.7850	0.0206	4.8056	1.2251	0.0190	1.2440		2,456.8170	2,456.8170	0.1289		2,459.5236
Total	**1.3007**	**5.3148**	**18.1446**	**0.0414**	**5.3364**	**0.0854**	**5.4218**	**1.3730**	**0.0786**	**1.4516**		**3,542.4228**	**3,542.4228**	**0.1368**		**3,545.2965**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491		1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**		**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.3987	3.7929	5.5623	0.0110	0.3188	0.0611	0.3799	0.0908	0.0562	0.1470		1,067.3819	1,067.3819	7.9200e-003		1,067.5483
Worker	0.7863	1.0724	11.1752	0.0304	2.5597	0.0200	2.5797	0.6788	0.0186	0.6974		2,365.0780	2,365.0780	0.1196		2,367.5900
Total	**1.1850**	**4.8652**	**16.7375**	**0.0414**	**2.8785**	**0.0811**	**2.9596**	**0.7697**	**0.0747**	**0.8444**		**3,432.4599**	**3,432.4599**	**0.1275**		**3,435.1383**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491	0.0000	1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**	**0.0000**	**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.3987	3.7929	5.5623	0.0110	0.5515	0.0611	0.6125	0.1479	0.0562	0.2041		1,067.3819	1,067.3819	7.9200e-003		1,067.5483
Worker	0.7863	1.0724	11.1752	0.0304	4.7850	0.0200	4.8050	1.2251	0.0186	1.2436		2,365.0780	2,365.0780	0.1196		2,367.5900
Total	**1.1850**	**4.8652**	**16.7375**	**0.0414**	**5.3365**	**0.0811**	**5.4176**	**1.3730**	**0.0747**	**1.4477**		**3,432.4599**	**3,432.4599**	**0.1275**		**3,435.1383**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544		1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**		**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.3769	3.4971	5.3796	0.0110	0.3189	0.0579	0.3768	0.0908	0.0533	0.1441		1,046.5421	1,046.5421	7.7800e-003		1,046.7054
Worker	0.7230	0.9833	10.2419	0.0303	2.5597	0.0197	2.5794	0.6788	0.0183	0.6971		2,275.0391	2,275.0391	0.1120		2,277.3906
Total	**1.0999**	**4.4804**	**15.6215**	**0.0412**	**2.8785**	**0.0776**	**2.9562**	**0.7697**	**0.0715**	**0.8412**		**3,321.5812**	**3,321.5812**	**0.1198**		**3,324.0960**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544	0.0000	1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**	**0.0000**	**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.3769	3.4971	5.3796	0.0110	0.5515	0.0579	0.6094	0.1479	0.0533	0.2012		1,046.5421	1,046.5421	7.7800e-003		1,046.7054
Worker	0.7230	0.9833	10.2419	0.0303	4.7850	0.0197	4.8047	1.2251	0.0183	1.2433		2,275.0391	2,275.0391	0.1120		2,277.3906
Total	**1.0999**	**4.4804**	**15.6215**	**0.0412**	**5.3365**	**0.0776**	**5.4141**	**1.3730**	**0.0715**	**1.4445**		**3,321.5812**	**3,321.5812**	**0.1198**		**3,324.0960**

3.4 Architectural Coating - 2018

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**14.6860**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.1579	0.2154	2.2448	6.1000e-003	0.5142	4.0300e-003	0.5182	0.1364	3.7300e-003	0.1401		475.0812	475.0812	0.0240		475.5858
Total	**0.1579**	**0.2154**	**2.2448**	**6.1000e-003**	**0.5142**	**4.0300e-003**	**0.5182**	**0.1364**	**3.7300e-003**	**0.1401**		**475.0812**	**475.0812**	**0.0240**		**475.5858**

3.4 Architectural Coating - 2018

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**14.6860**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.1579	0.2154	2.2448	6.1000e-003	0.9612	4.0300e-003	0.9652	0.2461	3.7300e-003	0.2498		475.0812	475.0812	0.0240		475.5858
Total	**0.1579**	**0.2154**	**2.2448**	**6.1000e-003**	**0.9612**	**4.0300e-003**	**0.9652**	**0.2461**	**3.7300e-003**	**0.2498**		**475.0812**	**475.0812**	**0.0240**		**475.5858**

3.4 Architectural Coating - 2019

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**14.6538**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1452	0.1975	2.0573	6.0900e-003	0.5142	3.9500e-003	0.5181	0.1364	3.6700e-003	0.1400		456.9948	456.9948	0.0225		457.4671
Total	**0.1452**	**0.1975**	**2.0573**	**6.0900e-003**	**0.5142**	**3.9500e-003**	**0.5181**	**0.1364**	**3.6700e-003**	**0.1400**		**456.9948**	**456.9948**	**0.0225**		**457.4671**

3.4 Architectural Coating - 2019

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**14.6538**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1452	0.1975	2.0573	6.0900e-003	0.9612	3.9500e-003	0.9651	0.2461	3.6700e-003	0.2498		456.9948	456.9948	0.0225		457.4671
Total	**0.1452**	**0.1975**	**2.0573**	**6.0900e-003**	**0.9612**	**3.9500e-003**	**0.9651**	**0.2461**	**3.6700e-003**	**0.2498**		**456.9948**	**456.9948**	**0.0225**		**457.4671**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059		1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**		**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0568	0.0773	0.8050	2.3800e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		178.8240	178.8240	8.8000e-003		179.0089
Total	**0.0568**	**0.0773**	**0.8050**	**2.3800e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**178.8240**	**178.8240**	**8.8000e-003**		**179.0089**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059	0.0000	1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**	**0.0000**	**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0568	0.0773	0.8050	2.3800e-003	0.3761	1.5500e-003	0.3777	0.0963	1.4300e-003	0.0977		178.8240	178.8240	8.8000e-003		179.0089
Total	**0.0568**	**0.0773**	**0.8050**	**2.3800e-003**	**0.3761**	**1.5500e-003**	**0.3777**	**0.0963**	**1.4300e-003**	**0.0977**		**178.8240**	**178.8240**	**8.8000e-003**		**179.0089**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.9370	14.9915	63.4634	0.1675	21.5444	0.2338	21.7782	5.5406	0.2156	5.7562		12,963.4257	12,963.4257	0.4834		12,973.5766
Unmitigated	7.3152	17.8951	72.8471	0.2072	26.8773	0.2861	27.1633	6.9121	0.2639	7.1759		16,043.4564	16,043.4564	0.5891		16,055.8268

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,383.46	1,582.36	1341.47	4,804,091	3,850,888
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,041.45	992.98	826.64	1,368,058	1,096,615
Total	2,424.91	2,575.34	2,168.11	6,172,149	4,947,503

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0925	0.8125	0.5005	5.0400e-003		0.0639	0.0639		0.0639	0.0639		1,008.6606	1,008.6606	0.0193	0.0185	1,014.7992
NaturalGas Unmitigated	0.1079	0.9460	0.5652	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,177.5682	1,177.5682	0.0226	0.0216	1,184.7347

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4002.66	0.0432	0.3924	0.3296	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.9018	470.9018	9.0300e-003	8.6300e-003	473.7676
Apartments High Rise	6006.66	0.0648	0.5536	0.2356	3.5300e-003		0.0448	0.0448		0.0448	0.0448		706.6665	706.6665	0.0135	0.0130	710.9671
Total		**0.1080**	**0.9460**	**0.5652**	**5.8800e-003**		**0.0746**	**0.0746**		**0.0746**	**0.0746**		**1,177.5682**	**1,177.5682**	**0.0226**	**0.0216**	**1,184.7347**

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					
High Turnover (Sit Down Restaurant)	3.80842	0.0411	0.3734	0.3136	2.2400e-003		0.0284	0.0284		0.0284	0.0284		448.0499	448.0499	8.5900e-003	8.2100e-003	450.7766
Apartments High Rise	4.76519	0.0514	0.4392	0.1869	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.6108	560.6108	0.0108	0.0103	564.0225
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
Total		**0.0925**	**0.8125**	**0.5005**	**5.0400e-003**		**0.0639**	**0.0639**		**0.0639**	**0.0639**		**1,008.6606**	**1,008.6606**	**0.0193**	**0.0185**	**1,014.7992**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.3643	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Unmitigated	9.6833	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6917					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	0.5610	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007		32.9196	32.9196	0.0323		33.5969
Total	**9.6833**	**0.2120**	**18.3354**	**9.7000e-004**		**0.1007**	**0.1007**		**0.1007**	**0.1007**	**0.0000**	**32.9196**	**32.9196**	**0.0323**	**0.0000**	**33.5969**

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	1.1116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6917					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	0.5610	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007		32.9196	32.9196	0.0323		33.5969
Total	**9.3643**	**0.2120**	**18.3354**	**9.7000e-004**		**0.1007**	**0.1007**		**0.1007**	**0.1007**	**0.0000**	**32.9196**	**32.9196**	**0.0323**	**0.0000**	**33.5969**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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 Vegetation

Approved Shoreline Gateway East Tower Project

South Coast Air Basin, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Bore/Drill Rigs	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	4.00000E-002	2.71650E-001	2.60600E-001	4.20000E-004	1.98000E-002	1.98000E-002	0.00000E+000	3.60009E+001	3.60009E+001	3.24000E-003	0.00000E+000	3.60690E+001
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	3.53000E-003	2.20900E-002	1.85000E-002	4.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.74966E+000	2.74966E+000	2.90000E-004	0.00000E+000	2.75565E+000
Concrete/Industrial Saws	2.49800E-002	1.83230E-001	1.61210E-001	2.70000E-004	1.31800E-002	1.31800E-002	0.00000E+000	2.31192E+001	2.31192E+001	2.03000E-003	0.00000E+000	2.31619E+001
Cranes	8.07700E-002	9.62540E-001	3.54360E-001	8.00000E-004	4.19200E-002	3.85700E-002	0.00000E+000	7.30067E+001	7.30067E+001	2.27000E-002	0.00000E+000	7.34834E+001
Forklifts	7.81100E-002	6.86880E-001	5.17440E-001	6.50000E-004	5.51300E-002	5.07200E-002	0.00000E+000	5.92958E+001	5.92958E+001	1.84400E-002	0.00000E+000	5.96830E+001
Pavers	4.84000E-003	5.25800E-002	4.88300E-002	8.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	7.10589E+000	7.10589E+000	2.25000E-003	0.00000E+000	7.15310E+000
Rollers	3.96000E-003	3.92200E-002	3.33800E-002	5.00000E-005	2.58000E-003	2.37000E-003	0.00000E+000	4.12267E+000	4.12267E+000	1.30000E-003	0.00000E+000	4.15006E+000
Rubber Tired Dozers	6.40000E-003	7.09100E-002	5.34300E-002	5.00000E-005	3.29000E-003	3.03000E-003	0.00000E+000	4.43731E+000	4.43731E+000	1.36000E-003	0.00000E+000	4.46586E+000
Tractors/Loaders/Backhoes	1.79580E-001	1.75942E+000	1.52276E+000	2.01000E-003	1.26390E-001	1.16280E-001	0.00000E+000	1.84350E+002	1.84350E+002	5.72600E-002	0.00000E+000	1.85552E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	4.00000E-002	2.71650E-001	2.60600E-001	4.20000E-004	1.98000E-002	1.98000E-002	0.00000E+000	3.60009E+001	3.60009E+001	3.24000E-003	0.00000E+000	3.60690E+001
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	3.53000E-003	2.20900E-002	1.85000E-002	4.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.74965E+000	2.74965E+000	2.90000E-004	0.00000E+000	2.75565E+000
Concrete/Industrial Saws	2.49800E-002	1.83230E-001	1.61210E-001	2.70000E-004	1.31800E-002	1.31800E-002	0.00000E+000	2.31192E+001	2.31192E+001	2.03000E-003	0.00000E+000	2.31619E+001
Cranes	8.07700E-002	9.62540E-001	3.54360E-001	8.00000E-004	4.19200E-002	3.85700E-002	0.00000E+000	7.30066E+001	7.30066E+001	2.27000E-002	0.00000E+000	7.34833E+001
Forklifts	7.81100E-002	6.86880E-001	5.17440E-001	6.50000E-004	5.51300E-002	5.07200E-002	0.00000E+000	5.92957E+001	5.92957E+001	1.84400E-002	0.00000E+000	5.96829E+001
Pavers	4.84000E-003	5.25800E-002	4.88300E-002	8.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	7.10588E+000	7.10588E+000	2.25000E-003	0.00000E+000	7.15309E+000
Rollers	3.96000E-003	3.92200E-002	3.33800E-002	5.00000E-005	2.58000E-003	2.37000E-003	0.00000E+000	4.12267E+000	4.12267E+000	1.30000E-003	0.00000E+000	4.15006E+000
Rubber Tired Dozers	6.40000E-003	7.09100E-002	5.34300E-002	5.00000E-005	3.29000E-003	3.03000E-003	0.00000E+000	4.43730E+000	4.43730E+000	1.36000E-003	0.00000E+000	4.46586E+000
Tractors/Loaders/Backhoes	1.79580E-001	1.75942E+000	1.52276E+000	2.01000E-003	1.26390E-001	1.16280E-001	0.00000E+000	1.84349E+002	1.84349E+002	5.72600E-002	0.00000E+000	1.85552E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11108E-006	1.11108E-006	0.00000E+000	0.00000E+000	1.10898E-006
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.63681E-006	3.63681E-006	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29762E-006	1.29762E-006	0.00000E+000	0.00000E+000	1.29523E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23276E-006	1.23276E-006	0.00000E+000	0.00000E+000	1.08868E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18052E-006	1.18052E-006	0.00000E+000	0.00000E+000	1.17286E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.40728E-006	1.40728E-006	0.00000E+000	0.00000E+000	1.39800E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.25362E-006	2.25362E-006	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19338E-006	1.19338E-006	0.00000E+000	0.00000E+000	1.18565E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	136.00	PM2.5 Reduction	136.00	Frequency (per day)	6.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	50.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.07	0.02	0.13	0.03	-0.87	-0.80
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.80	0.21	1.48	0.38	-0.85	-0.78
Grading	Fugitive Dust	0.04	0.02	0.02	0.01	0.36	0.36
Grading	Roads	0.05	0.01	0.09	0.02	-0.77	-0.69
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.01	0.00	-0.87	-0.80

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.19	20.19	20.20	20.20	20.19
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	5.45	16.21	13.09	19.18	18.29	18.31	0.00	19.18	19.18	17.92	0.00	19.18
Natural Gas	14.31	14.11	11.45	14.02	14.33	14.33	0.00	14.34	14.34	14.21	14.29	14.34
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	13.50	13.85	19.96	19.70	14.69
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	3.32	368.00	0.00	
Yes	Land Use	Increase Diversity	0.10	0.32		
No	Land Use	Improve Walkability Design	0.00	0.00		
Yes	Land Use	Improve Destination Accessibility	0.20	0.00		
Yes	Land Use	Increase Transit Accessibility	0.08	0.60		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.20			
No	Neighborhood Enhancements	Improve Pedestrian Network	0.00			
No	Neighborhood Enhancements	Provide Traffic Calming Measures	0.00			
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
Yes	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			

		Land Use and Site Enhancement Subtotal	0.20			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge		0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.20			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	100.00
Yes	Use Low VOC Paint (Non-residential Interior)	150.00
Yes	Use Low VOC Paint (Non-residential Exterior)	150.00
No	% Electric Lawnmower	0.00

No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	25.00	
Yes	Install High Efficiency Lighting	35.00	
No	On-site Renewable	0.00	0.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher	Apartments High Rise	30.00
DishWasher	Apartments High Rise	15.00
Fan		50.00
Refrigerator	Apartments High Rise	15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	

Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Appendix

California Emissions Estimator Model (CalEEMod) Air Quality Modeling Worksheets

Shoreline Gateway East Tower Project

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	458.00	Space	0.00	161,670.00	0
High Turnover (Sit Down Restaurant)	6.71	1000sqft	0.00	6,710.00	0
Apartments High Rise	315.00	Dwelling Unit	0.60	414,053.00	901

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total Total lot acerage for all land uses = 0.6 estimated from site plans, Residential (including common areas) SF = 414053 based on site plans

Construction Phase - Based on construction details

Off-road Equipment -

Off-road Equipment - Bore/Drill Rig added to account for pile driving activities during grading and excavation phase

Off-road Equipment -

Trips and VMT - Construction details from applicant

Grading - Total acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA.

Woodstoves - Based on site plans

Area Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assumed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only acocunts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00

tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	267.75	0.00
tblFireplaces	NumberNoFireplace	31.50	0.00
tblFireplaces	NumberWood	15.75	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LandUseSquareFeet	183,200.00	161,670.00
tblLandUse	LandUseSquareFeet	315,000.00	414,053.00
tblLandUse	LotAcreage	4.12	0.00
tblLandUse	LotAcreage	0.15	0.00
tblLandUse	LotAcreage	5.08	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.32
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	15.75	0.00
tblWoodstoves	NumberNoncatalytic	15.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3585	3.0262	3.7546	8.5200e-003	0.4047	0.1306	0.5354	0.1172	0.1212	0.2384	0.0000	710.2285	710.2285	0.0633	0.0000	711.5582
2018	1.8579	2.3945	4.1635	9.2700e-003	0.5254	0.1167	0.6421	0.1405	0.1083	0.2488	0.0000	719.3053	719.3053	0.0655	0.0000	720.6815
2019	1.4916	1.2987	2.2552	5.2200e-003	0.2858	0.0632	0.3490	0.0764	0.0589	0.1353	0.0000	394.9019	394.9019	0.0390	0.0000	395.7205
Total	**3.7080**	**6.7193**	**10.1733**	**0.0230**	**1.2159**	**0.3105**	**1.5264**	**0.3341**	**0.2884**	**0.6225**	**0.0000**	**1,824.4356**	**1,824.4356**	**0.1678**	**0.0000**	**1,827.9602**

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					
2017	0.3585	3.0261	3.7546	8.5200e-003	0.3797	0.1306	0.5103	0.1047	0.1212	0.2259	0.0000	710.2283	710.2283	0.0633	0.0000	711.5580
2018	1.8579	2.3945	4.1635	9.2700e-003	0.5254	0.1167	0.6421	0.1405	0.1083	0.2488	0.0000	719.3051	719.3051	0.0655	0.0000	720.6813
2019	1.4916	1.2987	2.2552	5.2200e-003	0.2858	0.0632	0.3490	0.0764	0.0589	0.1353	0.0000	394.9017	394.9017	0.0390	0.0000	395.7204
Total	**3.7080**	**6.7193**	**10.1733**	**0.0230**	**1.1909**	**0.3105**	**1.5014**	**0.3216**	**0.2884**	**0.6100**	**0.0000**	**1,824.4351**	**1,824.4351**	**0.1678**	**0.0000**	**1,827.9597**

	ROG	NOx	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**	**2.06**	**0.00**	**1.64**	**3.75**	**0.00**	**2.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.5420	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Energy	0.0253	0.2206	0.1257	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	971.3744	971.3744	0.0380	0.0115	975.7194
Mobile	1.5017	4.0374	16.1232	0.0467	3.1678	0.0633	3.2311	0.8477	0.0584	0.9061	0.0000	3,274.4542	3,274.4542	0.1184	0.0000	3,276.9409
Waste						0.0000	0.0000		0.0000	0.0000	45.6222	0.0000	45.6222	2.6962	0.0000	102.2423
Water						0.0000	0.0000		0.0000	0.0000	7.1573	125.6131	132.7704	0.7409	0.0186	154.0806
Total	**4.0690**	**4.2958**	**19.5141**	**0.0482**	**3.1678**	**0.0988**	**3.2665**	**0.8477**	**0.0938**	**0.9415**	**52.7795**	**4,376.7596**	**4,429.5391**	**3.5987**	**0.0300**	**4,514.4104**

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	2.4834	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Energy	0.0214	0.1872	0.1099	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	795.2853	795.2853	0.0309	9.4300e-003	798.8575
Mobile	1.4232	3.4284	14.1418	0.0384	2.5884	0.0526	2.6410	0.6927	0.0485	0.7412	0.0000	2,694.5396	2,694.5396	0.0987	0.0000	2,696.6132
Waste						0.0000	0.0000		0.0000	0.0000	45.6222	0.0000	45.6222	2.6962	0.0000	102.2423
Water						0.0000	0.0000		0.0000	0.0000	5.7259	108.8004	114.5263	0.5930	0.0149	131.5978
Total	**3.9280**	**3.6533**	**17.5169**	**0.0397**	**2.5884**	**0.0853**	**2.6737**	**0.6927**	**0.0812**	**0.7739**	**51.3481**	**3,603.9432**	**3,655.2913**	**3.4240**	**0.0243**	**3,734.7381**

	ROG	NOx	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	**3.46**	**14.96**	**10.23**	**17.57**	**18.29**	**13.60**	**18.15**	**18.29**	**13.42**	**17.80**	**2.71**	**17.66**	**17.48**	**4.85**	**18.90**	**17.27**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 838,457; Residential Outdoor: 279,486; Non-Residential Indoor: 252,570; Non-Residential Outdoor: 84,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1	8.00	205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving				81	0.73
Paving				255	0.40
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	298.00	61.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

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					0.0368	0.0000	0.0368	0.0185	0.0000	0.0185	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0653	0.6465	0.4547	8.9000e-004		0.0369	0.0369		0.0350	0.0350	0.0000	81.0259	81.0259	0.0198	0.0000	81.4412
Total	**0.0653**	**0.6465**	**0.4547**	**8.9000e-004**	**0.0368**	**0.0369**	**0.0737**	**0.0185**	**0.0350**	**0.0534**	**0.0000**	**81.0259**	**81.0259**	**0.0198**	**0.0000**	**81.4412**

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	0.0441	0.6978	0.5507	1.9200e-003	0.0447	0.0102	0.0549	0.0123	9.4100e-003	0.0217	0.0000	172.9136	172.9136	1.2400e-003	0.0000	172.9397
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	2.0100e-003	2.9700e-003	0.0309	8.0000e-005	6.1300e-003	5.0000e-005	6.1800e-003	1.6300e-003	5.0000e-005	1.6800e-003	0.0000	5.5254	5.5254	2.9000e-004	0.0000	5.5314
Total	**0.0461**	**0.7008**	**0.5816**	**2.0000e-003**	**0.0508**	**0.0103**	**0.0611**	**0.0139**	**9.4600e-003**	**0.0233**	**0.0000**	**178.4390**	**178.4390**	**1.5300e-003**	**0.0000**	**178.4711**

3.2 Grading - 2017

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					0.0118	0.0000	0.0118	5.9000e-003	0.0000	5.9000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0653	0.6465	0.4547	8.9000e-004		0.0369	0.0369		0.0350	0.0350	0.0000	81.0258	81.0258	0.0198	0.0000	81.4411
Total	**0.0653**	**0.6465**	**0.4547**	**8.9000e-004**	**0.0118**	**0.0369**	**0.0487**	**5.9000e-003**	**0.0350**	**0.0409**	**0.0000**	**81.0258**	**81.0258**	**0.0198**	**0.0000**	**81.4411**

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	0.0441	0.6978	0.5507	1.9200e-003	0.0447	0.0102	0.0549	0.0123	9.4100e-003	0.0217	0.0000	172.9136	172.9136	1.2400e-003	0.0000	172.9397
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	2.0100e-003	2.9700e-003	0.0309	8.0000e-005	6.1300e-003	5.0000e-005	6.1800e-003	1.6300e-003	5.0000e-005	1.6800e-003	0.0000	5.5254	5.5254	2.9000e-004	0.0000	5.5314
Total	**0.0461**	**0.7008**	**0.5816**	**2.0000e-003**	**0.0508**	**0.0103**	**0.0611**	**0.0139**	**9.4600e-003**	**0.0233**	**0.0000**	**178.4390**	**178.4390**	**1.5300e-003**	**0.0000**	**178.4711**

3.3 Building Construction - 2017

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	0.1108	1.1026	0.6994	9.9000e-004		0.0744	0.0744		0.0685	0.0685	0.0000	91.5161	91.5161	0.0280	0.0000	92.1049
Total	**0.1108**	**1.1026**	**0.6994**	**9.9000e-004**		**0.0744**	**0.0744**		**0.0685**	**0.0685**	**0.0000**	**91.5161**	**91.5161**	**0.0280**	**0.0000**	**92.1049**

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	0.0432	0.4385	0.5861	1.1500e-003	0.0327	6.7100e-003	0.0394	9.3200e-003	6.1700e-003	0.0155	0.0000	102.9854	102.9854	7.4000e-004	0.0000	103.0009
Worker	0.0931	0.1378	1.4328	3.4900e-003	0.2844	2.3300e-003	0.2868	0.0755	2.1500e-003	0.0777	0.0000	256.2621	256.2621	0.0132	0.0000	256.5401
Total	**0.1363**	**0.5763**	**2.0189**	**4.6400e-003**	**0.3171**	**9.0400e-003**	**0.3261**	**0.0849**	**8.3200e-003**	**0.0932**	**0.0000**	**359.2475**	**359.2475**	**0.0140**	**0.0000**	**359.5410**

3.3 Building Construction - 2017

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	0.1108	1.1026	0.6994	9.9000e-004		0.0744	0.0744		0.0685	0.0685	0.0000	91.5160	91.5160	0.0280	0.0000	92.1048
Total	**0.1108**	**1.1026**	**0.6994**	**9.9000e-004**		**0.0744**	**0.0744**		**0.0685**	**0.0685**	**0.0000**	**91.5160**	**91.5160**	**0.0280**	**0.0000**	**92.1048**

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	0.0432	0.4385	0.5861	1.1500e-003	0.0327	6.7100e-003	0.0394	9.3200e-003	6.1700e-003	0.0155	0.0000	102.9854	102.9854	7.4000e-004	0.0000	103.0009
Worker	0.0931	0.1378	1.4328	3.4900e-003	0.2844	2.3300e-003	0.2868	0.0755	2.1500e-003	0.0777	0.0000	256.2621	256.2621	0.0132	0.0000	256.5401
Total	**0.1363**	**0.5763**	**2.0189**	**4.6400e-003**	**0.3171**	**9.0400e-003**	**0.3261**	**0.0849**	**8.3200e-003**	**0.0932**	**0.0000**	**359.2475**	**359.2475**	**0.0140**	**0.0000**	**359.5410**

3.3 Building Construction - 2018

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	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847	0.0000	134.9913	134.9913	0.0420	0.0000	135.8738
Total	**0.1408**	**1.4300**	**1.0080**	**1.4800e-003**		**0.0921**	**0.0921**		**0.0847**	**0.0847**	**0.0000**	**134.9913**	**134.9913**	**0.0420**	**0.0000**	**135.8738**

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	0.0606	0.6037	0.8423	1.7200e-003	0.0490	9.4800e-003	0.0585	0.0140	8.7200e-003	0.0227	0.0000	151.8864	151.8864	1.1000e-003	0.0000	151.9096
Worker	0.1255	0.1875	1.9464	5.2400e-003	0.4267	3.4000e-003	0.4301	0.1133	3.1500e-003	0.1165	0.0000	370.0456	370.0456	0.0184	0.0000	370.4326
Total	**0.1861**	**0.7912**	**2.7888**	**6.9600e-003**	**0.4757**	**0.0129**	**0.4885**	**0.1273**	**0.0119**	**0.1392**	**0.0000**	**521.9320**	**521.9320**	**0.0195**	**0.0000**	**522.3421**

3.3 Building Construction - 2018

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	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847	0.0000	134.9912	134.9912	0.0420	0.0000	135.8737
Total	**0.1408**	**1.4300**	**1.0080**	**1.4800e-003**		**0.0921**	**0.0921**		**0.0847**	**0.0847**	**0.0000**	**134.9912**	**134.9912**	**0.0420**	**0.0000**	**135.8737**

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	0.0606	0.6037	0.8423	1.7200e-003	0.0490	9.4800e-003	0.0585	0.0140	8.7200e-003	0.0227	0.0000	151.8864	151.8864	1.1000e-003	0.0000	151.9096
Worker	0.1255	0.1875	1.9464	5.2400e-003	0.4267	3.4000e-003	0.4301	0.1133	3.1500e-003	0.1165	0.0000	370.0456	370.0456	0.0184	0.0000	370.4326
Total	**0.1861**	**0.7912**	**2.7888**	**6.9600e-003**	**0.4757**	**0.0129**	**0.4885**	**0.1273**	**0.0119**	**0.1392**	**0.0000**	**521.9320**	**521.9320**	**0.0195**	**0.0000**	**522.3421**

3.3 Building Construction - 2019

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	0.0624	0.6390	0.4925	7.4000e-004		0.0395	0.0395		0.0363	0.0363	0.0000	66.6395	66.6395	0.0211	0.0000	67.0822
Total	**0.0624**	**0.6390**	**0.4925**	**7.4000e-004**		**0.0395**	**0.0395**		**0.0363**	**0.0363**	**0.0000**	**66.6395**	**66.6395**	**0.0211**	**0.0000**	**67.0822**

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	0.0288	0.2794	0.4084	8.6000e-004	0.0246	4.5100e-003	0.0291	7.0200e-003	4.1500e-003	0.0112	0.0000	74.7475	74.7475	5.4000e-004	0.0000	74.7589
Worker	0.0578	0.0863	0.8958	2.6200e-003	0.2142	1.6800e-003	0.2158	0.0569	1.5600e-003	0.0584	0.0000	178.6629	178.6629	8.6600e-003	0.0000	178.8447
Total	**0.0866**	**0.3657**	**1.3042**	**3.4800e-003**	**0.2387**	**6.1900e-003**	**0.2449**	**0.0639**	**5.7100e-003**	**0.0696**	**0.0000**	**253.4103**	**253.4103**	**9.2000e-003**	**0.0000**	**253.6035**

3.3 Building Construction - 2019

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	0.0624	0.6390	0.4925	7.4000e-004		0.0395	0.0395		0.0363	0.0363	0.0000	66.6394	66.6394	0.0211	0.0000	67.0822
Total	**0.0624**	**0.6390**	**0.4925**	**7.4000e-004**		**0.0395**	**0.0395**		**0.0363**	**0.0363**	**0.0000**	**66.6394**	**66.6394**	**0.0211**	**0.0000**	**67.0822**

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	0.0288	0.2794	0.4084	8.6000e-004	0.0246	4.5100e-003	0.0291	7.0200e-003	4.1500e-003	0.0112	0.0000	74.7475	74.7475	5.4000e-004	0.0000	74.7589
Worker	0.0578	0.0863	0.8958	2.6200e-003	0.2142	1.6800e-003	0.2158	0.0569	1.5600e-003	0.0584	0.0000	178.6629	178.6629	8.6600e-003	0.0000	178.8447
Total	**0.0866**	**0.3657**	**1.3042**	**3.4800e-003**	**0.2387**	**6.1900e-003**	**0.2449**	**0.0639**	**5.7100e-003**	**0.0696**	**0.0000**	**253.4103**	**253.4103**	**9.2000e-003**	**0.0000**	**253.6035**

3.4 Architectural Coating - 2018

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	1.4939					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1514	0.1400	2.2000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.2771	19.2771	1.8300e-003	0.0000	19.3156
Total	**1.5165**	**0.1514**	**0.1400**	**2.2000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**19.2771**	**19.2771**	**1.8300e-003**	**0.0000**	**19.3156**

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	0.0146	0.0219	0.2267	6.1000e-004	0.0497	4.0000e-004	0.0501	0.0132	3.7000e-004	0.0136	0.0000	43.1049	43.1049	2.1500e-003	0.0000	43.1500
Total	**0.0146**	**0.0219**	**0.2267**	**6.1000e-004**	**0.0497**	**4.0000e-004**	**0.0501**	**0.0132**	**3.7000e-004**	**0.0136**	**0.0000**	**43.1049**	**43.1049**	**2.1500e-003**	**0.0000**	**43.1500**

3.4 Architectural Coating - 2018

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	1.4939					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1514	0.1400	2.2000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.2771	19.2771	1.8300e-003	0.0000	19.3155
Total	**1.5165**	**0.1514**	**0.1400**	**2.2000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**19.2771**	**19.2771**	**1.8300e-003**	**0.0000**	**19.3155**

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	0.0146	0.0219	0.2267	6.1000e-004	0.0497	4.0000e-004	0.0501	0.0132	3.7000e-004	0.0136	0.0000	43.1049	43.1049	2.1500e-003	0.0000	43.1500
Total	**0.0146**	**0.0219**	**0.2267**	**6.1000e-004**	**0.0497**	**4.0000e-004**	**0.0501**	**0.0132**	**3.7000e-004**	**0.0136**	**0.0000**	**43.1049**	**43.1049**	**2.1500e-003**	**0.0000**	**43.1500**

3.4 Architectural Coating - 2019

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	1.2960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1202	0.1206	1.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	16.7238	16.7238	1.4100e-003	0.0000	16.7535
Total	**1.3135**	**0.1202**	**0.1206**	**1.9000e-004**		**8.4300e-003**	**8.4300e-003**		**8.4300e-003**	**8.4300e-003**	**0.0000**	**16.7238**	**16.7238**	**1.4100e-003**	**0.0000**	**16.7535**

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	0.0116	0.0174	0.1804	5.3000e-004	0.0431	3.4000e-004	0.0435	0.0115	3.1000e-004	0.0118	0.0000	35.9724	35.9724	1.7400e-003	0.0000	36.0090
Total	**0.0116**	**0.0174**	**0.1804**	**5.3000e-004**	**0.0431**	**3.4000e-004**	**0.0435**	**0.0115**	**3.1000e-004**	**0.0118**	**0.0000**	**35.9724**	**35.9724**	**1.7400e-003**	**0.0000**	**36.0090**

3.4 Architectural Coating - 2019

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	1.2960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1202	0.1206	1.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	16.7238	16.7238	1.4100e-003	0.0000	16.7535
Total	**1.3135**	**0.1202**	**0.1206**	**1.9000e-004**		**8.4300e-003**	**8.4300e-003**		**8.4300e-003**	**8.4300e-003**	**0.0000**	**16.7238**	**16.7238**	**1.4100e-003**	**0.0000**	**16.7535**

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	0.0116	0.0174	0.1804	5.3000e-004	0.0431	3.4000e-004	0.0435	0.0115	3.1000e-004	0.0118	0.0000	35.9724	35.9724	1.7400e-003	0.0000	36.0090
Total	**0.0116**	**0.0174**	**0.1804**	**5.3000e-004**	**0.0431**	**3.4000e-004**	**0.0435**	**0.0115**	**3.1000e-004**	**0.0118**	**0.0000**	**35.9724**	**35.9724**	**1.7400e-003**	**0.0000**	**36.0090**

3.5 Paving - 2019

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	0.0164	0.1548	0.1410	2.2000e-004		8.7500e-003	8.7500e-003		8.1200e-003	8.1200e-003	0.0000	18.8607	18.8607	5.3800e-003	0.0000	18.9737
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1548**	**0.1410**	**2.2000e-004**		**8.7500e-003**	**8.7500e-003**		**8.1200e-003**	**8.1200e-003**	**0.0000**	**18.8607**	**18.8607**	**5.3800e-003**	**0.0000**	**18.9737**

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	1.0700e-003	1.5900e-003	0.0165	5.0000e-005	3.9500e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.2952	3.2952	1.6000e-004	0.0000	3.2985
Total	**1.0700e-003**	**1.5900e-003**	**0.0165**	**5.0000e-005**	**3.9500e-003**	**3.0000e-005**	**3.9800e-003**	**1.0500e-003**	**3.0000e-005**	**1.0800e-003**	**0.0000**	**3.2952**	**3.2952**	**1.6000e-004**	**0.0000**	**3.2985**

3.5 Paving - 2019

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	0.0164	0.1548	0.1410	2.2000e-004		8.7500e-003	8.7500e-003		8.1200e-003	8.1200e-003	0.0000	18.8607	18.8607	5.3800e-003	0.0000	18.9737
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1548**	**0.1410**	**2.2000e-004**		**8.7500e-003**	**8.7500e-003**		**8.1200e-003**	**8.1200e-003**	**0.0000**	**18.8607**	**18.8607**	**5.3800e-003**	**0.0000**	**18.9737**

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	1.0700e-003	1.5900e-003	0.0165	5.0000e-005	3.9500e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.2952	3.2952	1.6000e-004	0.0000	3.2985
Total	**1.0700e-003**	**1.5900e-003**	**0.0165**	**5.0000e-005**	**3.9500e-003**	**3.0000e-005**	**3.9800e-003**	**1.0500e-003**	**3.0000e-005**	**1.0800e-003**	**0.0000**	**3.2952**	**3.2952**	**1.6000e-004**	**0.0000**	**3.2985**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	1.4232	3.4284	14.1418	0.0384	2.5884	0.0526	2.6410	0.6927	0.0485	0.7412	0.0000	2,694.5396	2,694.5396	0.0987	0.0000	2,696.6132
Unmitigated	1.5017	4.0374	16.1232	0.0467	3.1678	0.0633	3.2311	0.8477	0.0584	0.9061	0.0000	3,274.4542	3,274.4542	0.1184	0.0000	3,276.9409

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,990.80	2,255.40	1912.05	6,893,591	5,632,802
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,114.53	1,062.66	884.65	1,464,062	1,196,296
Total	3,105.33	3,318.06	2,796.70	8,357,654	6,829,098

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	583.6066	583.6066	0.0268	5.5500e-003	585.8906
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	721.1804	721.1804	0.0332	6.8600e-003	724.0028
NaturalGas Mitigated	0.0214	0.1872	0.1099	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	211.6787	211.6787	4.0600e-003	3.8800e-003	212.9670
NaturalGas Unmitigated	0.0253	0.2206	0.1257	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.1940	250.1940	4.8000e-003	4.5900e-003	251.7166

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					
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
High Turnover (Sit Down Restaurant)	1.5635e+006	8.4300e-003	0.0766	0.0644	4.6000e-004		5.8200e-003	5.8200e-003		5.8200e-003	5.8200e-003	0.0000	83.4342	83.4342	1.6000e-003	1.5300e-003	83.9419
Apartments High Rise	3.12496e+006	0.0169	0.1440	0.0613	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.7598	166.7598	3.2000e-003	3.0600e-003	167.7747
Total		**0.0253**	**0.2206**	**0.1257**	**1.3800e-003**		**0.0175**	**0.0175**		**0.0175**	**0.0175**	**0.0000**	**250.1940**	**250.1940**	**4.8000e-003**	**4.5900e-003**	**251.7166**

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					
High Turnover (Sit Down Restaurant)	1.48762e+006	8.0200e-003	0.0729	0.0613	4.4000e-004		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003	0.0000	79.3853	79.3853	1.5200e-003	1.4600e-003	79.8684
Apartments High Rise	2.47909e+006	0.0134	0.1142	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	132.2934	132.2934	2.5400e-003	2.4300e-003	133.0986
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
Total		**0.0214**	**0.1872**	**0.1099**	**1.1700e-003**		**0.0148**	**0.0148**		**0.0148**	**0.0148**	**0.0000**	**211.6787**	**211.6787**	**4.0600e-003**	**3.8900e-003**	**212.9670**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.11572e+006	319.2814	0.0147	3.0400e-003	320.5309
Enclosed Parking with Elevator	1.08966e+006	311.8234	0.0143	2.9700e-003	313.0437
High Turnover (Sit Down Restaurant)	314766	90.0756	4.1400e-003	8.6000e-004	90.4282
Total		**721.1804**	**0.0332**	**6.8700e-003**	**724.0028**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	979609	280.3317	0.0129	2.6700e-003	281.4288
Enclosed Parking with Elevator	782402	223.8975	0.0103	2.1300e-003	224.7738
High Turnover (Sit Down Restaurant)	277381	79.3774	3.6500e-003	7.5000e-004	79.6880
Total		**583.6066**	**0.0268**	**5.5500e-003**	**585.8906**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.4834	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Unmitigated	2.5420	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272

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	0.3375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1046					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	0.0998	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Total	**2.5420**	**0.0378**	**3.2653**	**1.7000e-004**		**0.0179**	**0.0179**		**0.0179**	**0.0179**	**0.0000**	**5.3179**	**5.3179**	**5.2100e-003**	**0.0000**	**5.4272**

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	0.2790					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1046					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	0.0998	0.0378	3.2653	1.7000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	5.3179	5.3179	5.2100e-003	0.0000	5.4272
Total	**2.4834**	**0.0378**	**3.2653**	**1.7000e-004**		**0.0179**	**0.0179**		**0.0179**	**0.0179**	**0.0000**	**5.3179**	**5.3179**	**5.2100e-003**	**0.0000**	**5.4272**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	114.5263	0.5930	0.0149	131.5978
Unmitigated	132.7704	0.7409	0.0186	154.0806

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	20.5235 / 12.9387	124.1218	0.6742	0.0169	143.5212
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.03671 / 0.130003	8.6486	0.0667	1.6400e-003	10.5594
Total		**132.7704**	**0.7409**	**0.0186**	**154.0806**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	16.4188 / 12.9387	107.5247	0.5396	0.0136	123.0681
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.62937 / 0.130003	7.0016	0.0534	1.3100e-003	8.5297
Total		**114.5263**	**0.5930**	**0.0149**	**131.5978**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	45.6222	2.6962	0.0000	102.2423
Unmitigated	45.6222	2.6962	0.0000	102.2423

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	144.9	29.4134	1.7383	0.0000	65.9173
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	79.85	16.2088	0.9579	0.0000	36.3250
Total		**45.6222**	**2.6962**	**0.0000**	**102.2423**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	144.9	29.4134	1.7383	0.0000	65.9173
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	79.85	16.2088	0.9579	0.0000	36.3250
Total		**45.6222**	**2.6962**	**0.0000**	**102.2423**

9.0 Operational Offroad

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

10.0 Vegetation

Shoreline Gateway East Tower Project

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	458.00	Space	0.00	161,670.00	0
High Turnover (Sit Down Restaurant)	6.71	1000sqft	0.00	6,710.00	0
Apartments High Rise	315.00	Dwelling Unit	0.60	414,053.00	901

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total Total lot acerage for all land uses = 0.6 estimated from site plans, Residential (including common areas) SF = 414053 based on site plans

Construction Phase - Based on construction details

Off-road Equipment -

Off-road Equipment - Bore/Drill Rig added to account for pile driving activities during grading and excavation phase

Off-road Equipment -

Trips and VMT - Construction details from applicant

Grading - Total acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA.

Woodstoves - Based on site plans

Area Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assumed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only acocunts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00

tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	267.75	0.00
tblFireplaces	NumberNoFireplace	31.50	0.00
tblFireplaces	NumberWood	15.75	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LandUseSquareFeet	183,200.00	161,670.00
tblLandUse	LandUseSquareFeet	315,000.00	414,053.00
tblLandUse	LotAcreage	4.12	0.00
tblLandUse	LotAcreage	0.15	0.00
tblLandUse	LotAcreage	5.08	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.32
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	15.75	0.00
tblWoodstoves	NumberNoncatalytic	15.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	2.8563	30.4942	31.2555	0.0673	3.7123	1.0964	4.6712	0.9920	1.0332	1.8742	0.0000	6,662.9343	6,662.9343	0.5460	0.0000	6,674.3999
2018	22.8101	18.9201	34.1250	0.0782	4.3830	0.9597	5.3427	1.1699	0.8952	2.0650	0.0000	6,652.5338	6,652.5338	0.5779	0.0000	6,664.6698
2019	23.4082	24.8880	40.0885	0.0917	4.5842	1.2697	5.8539	1.2232	1.1821	2.4054	0.0000	7,689.4457	7,689.4457	0.8681	0.0000	7,707.6765
Total	**49.0746**	**74.3022**	**105.4690**	**0.2372**	**12.6794**	**3.3258**	**15.8678**	**3.3851**	**3.1105**	**6.3446**	**0.0000**	**21,004.9138**	**21,004.9138**	**1.9920**	**0.0000**	**21,046.7461**

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					
2017	2.8563	30.4942	31.2555	0.0673	3.7123	1.0964	4.6712	0.9920	1.0332	1.8742	0.0000	6,662.9343	6,662.9343	0.5460	0.0000	6,674.3999
2018	22.8101	18.9201	34.1250	0.0782	4.3830	0.9597	5.3427	1.1699	0.8952	2.0650	0.0000	6,652.5338	6,652.5338	0.5779	0.0000	6,664.6698
2019	23.4082	24.8880	40.0885	0.0917	4.5842	1.2697	5.8539	1.2232	1.1821	2.4054	0.0000	7,689.4457	7,689.4457	0.8681	0.0000	7,707.6765
Total	**49.0746**	**74.3022**	**105.4690**	**0.2372**	**12.6794**	**3.3258**	**15.8678**	**3.3851**	**3.1105**	**6.3446**	**0.0000**	**21,004.9138**	**21,004.9138**	**1.9920**	**0.0000**	**21,046.7461**

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

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	14.1801	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Energy	0.1385	1.2090	0.6885	7.5600e-003		0.0957	0.0957		0.0957	0.0957		1,511.1870	1,511.1870	0.0290	0.0277	1,520.3839
Mobile	9.2224	22.8413	96.7429	0.2944	19.5693	0.3837	19.9530	5.2290	0.3539	5.5829		22,730.1574	22,730.1574	0.7913		22,746.7747
Total	**23.5410**	**24.3523**	**123.5534**	**0.3033**	**19.5693**	**0.6229**	**20.1923**	**5.2290**	**0.5931**	**5.8221**	**0.0000**	**24,288.2402**	**24,288.2402**	**0.8662**	**0.0277**	**24,315.0182**

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	13.8594	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Energy	0.1172	1.0255	0.6020	6.3900e-003		0.0810	0.0810		0.0810	0.0810		1,278.5525	1,278.5525	0.0245	0.0234	1,286.3336
Mobile	8.7337	19.4242	83.6680	0.2422	15.9902	0.3185	16.3087	4.2726	0.2938	4.5664		18,700.5436	18,700.5436	0.6596		18,714.3959
Total	**22.7103**	**20.7517**	**110.3920**	**0.2500**	**15.9902**	**0.5430**	**16.5332**	**4.2726**	**0.5183**	**4.7909**	**0.0000**	**20,025.9918**	**20,025.9918**	**0.7301**	**0.0234**	**20,048.5891**

	ROG	NOx	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	**3.53**	**14.79**	**10.65**	**17.59**	**18.29**	**12.83**	**18.12**	**18.29**	**12.62**	**17.71**	**0.00**	**17.55**	**17.55**	**15.71**	**15.41**	**17.55**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 838,457; Residential Outdoor: 279,486; Non-Residential Indoor: 252,570; Non-Residential Outdoor: 84,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1	8.00	205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving				81	0.73
Paving				255	0.40
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	298.00	61.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8562	0.0000	0.8562	0.4291	0.0000	0.4291			0.0000			0.0000
Off-Road	1.5185	15.0344	10.5748	0.0208		0.8576	0.8576		0.8135	0.8135		2,077.1114	2,077.1114	0.5070		2,087.7579
Total	**1.5185**	**15.0344**	**10.5748**	**0.0208**	**0.8562**	**0.8576**	**1.7138**	**0.4291**	**0.8135**	**1.2427**		**2,077.1114**	**2,077.1114**	**0.5070**		**2,087.7579**

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	0.9881	15.3986	11.3158	0.0447	1.0563	0.2376	1.2939	0.2893	0.2185	0.5078		4,437.0955	4,437.0955	0.0317		4,437.7609
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	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.7275	148.7275	7.3200e-003		148.8811
Total	**1.0367**	**15.4598**	**12.0789**	**0.0466**	**1.2016**	**0.2387**	**1.4404**	**0.3278**	**0.2196**	**0.5474**		**4,585.8230**	**4,585.8230**	**0.0390**		**4,586.6420**

3.2 Grading - 2017

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					0.2740	0.0000	0.2740	0.1373	0.0000	0.1373			0.0000			0.0000
Off-Road	1.5185	15.0344	10.5748	0.0208		0.8576	0.8576		0.8135	0.8135	0.0000	2,077.1114	2,077.1114	0.5070		2,087.7579
Total	**1.5185**	**15.0344**	**10.5748**	**0.0208**	**0.2740**	**0.8576**	**1.1316**	**0.1373**	**0.8135**	**0.9509**	**0.0000**	**2,077.1114**	**2,077.1114**	**0.5070**		**2,087.7579**

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	0.9881	15.3986	11.3158	0.0447	1.0563	0.2376	1.2939	0.2893	0.2185	0.5078		4,437.0955	4,437.0955	0.0317		4,437.7609
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	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.7275	148.7275	7.3200e-003		148.8811
Total	**1.0367**	**15.4598**	**12.0789**	**0.0466**	**1.2016**	**0.2387**	**1.4404**	**0.3278**	**0.2196**	**0.5474**		**4,585.8230**	**4,585.8230**	**0.0390**		**4,586.6420**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**		**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.4671	4.8237	5.7224	0.0133	0.3813	0.0768	0.4581	0.1086	0.0706	0.1792		1,309.4697	1,309.4697	9.2300e-003		1,309.6636
Worker	1.1153	1.4011	17.4936	0.0422	3.3309	0.0268	3.3577	0.8834	0.0247	0.9081		3,409.2915	3,409.2915	0.1677		3,412.8135
Total	**1.5824**	**6.2248**	**23.2160**	**0.0555**	**3.7123**	**0.1036**	**3.8158**	**0.9920**	**0.0953**	**1.0873**		**4,718.7611**	**4,718.7611**	**0.1770**		**4,722.4771**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**	**0.0000**	**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.4671	4.8237	5.7224	0.0133	0.3813	0.0768	0.4581	0.1086	0.0706	0.1792		1,309.4697	1,309.4697	9.2300e-003		1,309.6636
Worker	1.1153	1.4011	17.4936	0.0422	3.3309	0.0268	3.3577	0.8834	0.0247	0.9081		3,409.2915	3,409.2915	0.1677		3,412.8135
Total	**1.5824**	**6.2248**	**23.2160**	**0.0555**	**3.7123**	**0.1036**	**3.8158**	**0.9920**	**0.0953**	**1.0873**		**4,718.7611**	**4,718.7611**	**0.1770**		**4,722.4771**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491		1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**		**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.4381	4.4296	5.4520	0.0132	0.3814	0.0724	0.4537	0.1086	0.0666	0.1752		1,287.5110	1,287.5110	9.1800e-003		1,287.7038
Worker	1.0055	1.2711	15.8947	0.0422	3.3309	0.0261	3.3570	0.8834	0.0241	0.9075		3,282.4330	3,282.4330	0.1557		3,285.7019
Total	**1.4436**	**5.7007**	**21.3466**	**0.0554**	**3.7123**	**0.0984**	**3.8107**	**0.9920**	**0.0907**	**1.0827**		**4,569.9440**	**4,569.9440**	**0.1649**		**4,573.4057**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491	0.0000	1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**	**0.0000**	**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.4381	4.4296	5.4520	0.0132	0.3814	0.0724	0.4537	0.1086	0.0666	0.1752		1,287.5110	1,287.5110	9.1800e-003		1,287.7038
Worker	1.0055	1.2711	15.8947	0.0422	3.3309	0.0261	3.3570	0.8834	0.0241	0.9075		3,282.4330	3,282.4330	0.1557		3,285.7019
Total	**1.4436**	**5.7007**	**21.3466**	**0.0554**	**3.7123**	**0.0984**	**3.8107**	**0.9920**	**0.0907**	**1.0827**		**4,569.9440**	**4,569.9440**	**0.1649**		**4,573.4057**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544		1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**		**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.4150	4.0864	5.2471	0.0132	0.3814	0.0687	0.4500	0.1086	0.0632	0.1718		1,262.4228	1,262.4228	9.0000e-003		1,262.6118
Worker	0.9254	1.1659	14.6080	0.0421	3.3309	0.0256	3.3566	0.8834	0.0238	0.9071		3,157.9843	3,157.9843	0.1457		3,161.0443
Total	**1.3404**	**5.2523**	**19.8551**	**0.0553**	**3.7123**	**0.0943**	**3.8066**	**0.9920**	**0.0869**	**1.0789**		**4,420.4070**	**4,420.4070**	**0.1547**		**4,423.6560**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544	0.0000	1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**	**0.0000**	**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.4150	4.0864	5.2471	0.0132	0.3814	0.0687	0.4500	0.1086	0.0632	0.1718		1,262.4228	1,262.4228	9.0000e-003		1,262.6118
Worker	0.9254	1.1659	14.6080	0.0421	3.3309	0.0256	3.3566	0.8834	0.0238	0.9071		3,157.9843	3,157.9843	0.1457		3,161.0443
Total	**1.3404**	**5.2523**	**19.8551**	**0.0553**	**3.7123**	**0.0943**	**3.8066**	**0.9920**	**0.0869**	**1.0789**		**4,420.4070**	**4,420.4070**	**0.1547**		**4,423.6560**

3.4 Architectural Coating - 2018

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**20.0854**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.2024	0.2559	3.2003	8.4900e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8600e-003	0.1827		660.8925	660.8925	0.0313		661.5507
Total	**0.2024**	**0.2559**	**3.2003**	**8.4900e-003**	**0.6707**	**5.2500e-003**	**0.6759**	**0.1779**	**4.8600e-003**	**0.1827**		**660.8925**	**660.8925**	**0.0313**		**661.5507**

3.4 Architectural Coating - 2018

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**20.0854**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.2024	0.2559	3.2003	8.4900e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8600e-003	0.1827		660.8925	660.8925	0.0313		661.5507
Total	**0.2024**	**0.2559**	**3.2003**	**8.4900e-003**	**0.6707**	**5.2500e-003**	**0.6759**	**0.1779**	**4.8600e-003**	**0.1827**		**660.8925**	**660.8925**	**0.0313**		**661.5507**

3.4 Architectural Coating - 2019

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**20.0532**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1863	0.2347	2.9412	8.4700e-003	0.6707	5.1600e-003	0.6758	0.1779	4.7800e-003	0.1826		635.8358	635.8358	0.0293		636.4519
Total	**0.1863**	**0.2347**	**2.9412**	**8.4700e-003**	**0.6707**	**5.1600e-003**	**0.6758**	**0.1779**	**4.7800e-003**	**0.1826**		**635.8358**	**635.8358**	**0.0293**		**636.4519**

3.4 Architectural Coating - 2019

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**20.0532**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1863	0.2347	2.9412	8.4700e-003	0.6707	5.1600e-003	0.6758	0.1779	4.7800e-003	0.1826		635.8358	635.8358	0.0293		636.4519
Total	**0.1863**	**0.2347**	**2.9412**	**8.4700e-003**	**0.6707**	**5.1600e-003**	**0.6758**	**0.1779**	**4.7800e-003**	**0.1826**		**635.8358**	**635.8358**	**0.0293**		**636.4519**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059		1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**		**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0559	0.0704	0.8824	2.5400e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		190.7507	190.7507	8.8000e-003		190.9356
Total	**0.0559**	**0.0704**	**0.8824**	**2.5400e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**190.7507**	**190.7507**	**8.8000e-003**		**190.9356**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059	0.0000	1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**	**0.0000**	**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0559	0.0704	0.8824	2.5400e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		190.7507	190.7507	8.8000e-003		190.9356
Total	**0.0559**	**0.0704**	**0.8824**	**2.5400e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**190.7507**	**190.7507**	**8.8000e-003**		**190.9356**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.7337	19.4242	83.6680	0.2422	15.9902	0.3185	16.3087	4.2726	0.2938	4.5664		18,700.5436	18,700.5436	0.6596		18,714.3959
Unmitigated	9.2224	22.8413	96.7429	0.2944	19.5693	0.3837	19.9530	5.2290	0.3539	5.5829		22,730.1574	22,730.1574	0.7913		22,746.7747

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,990.80	2,255.40	1912.05	6,893,591	5,632,802
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,114.53	1,062.66	884.65	1,464,062	1,196,296
Total	3,105.33	3,318.06	2,796.70	8,357,654	6,829,098

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1172	1.0255	0.6020	6.3900e-003		0.0810	0.0810		0.0810	0.0810		1,278.5525	1,278.5525	0.0245	0.0234	1,286.3336
NaturalGas Unmitigated	0.1385	1.2090	0.6885	7.5600e-003		0.0957	0.0957		0.0957	0.0957		1,511.1870	1,511.1870	0.0290	0.0277	1,520.3839

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4283.55	0.0462	0.4200	0.3528	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.9475	503.9475	9.6600e-003	9.2400e-003	507.0144
Apartments High Rise	8561.54	0.0923	0.7890	0.3358	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.2395	1,007.2395	0.0193	0.0185	1,013.3694
Total		**0.1385**	**1.2090**	**0.6885**	**7.5600e-003**		**0.0957**	**0.0957**		**0.0957**	**0.0957**		**1,511.1870**	**1,511.1870**	**0.0290**	**0.0277**	**1,520.3839**

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					
High Turnover (Sit Down Restaurant)	4.07568	0.0440	0.3996	0.3356	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.4920	479.4920	9.1900e-003	8.7900e-003	482.4101
Apartments High Rise	6.79201	0.0733	0.6259	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.0606	799.0606	0.0153	0.0147	803.9235
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
Total		**0.1172**	**1.0255**	**0.6020**	**6.4000e-003**		**0.0810**	**0.0810**		**0.0810**	**0.0810**		**1,278.5525**	**1,278.5525**	**0.0245**	**0.0234**	**1,286.3336**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.8594	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Unmitigated	14.1801	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.5322					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	0.7985	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436		46.8957	46.8957	0.0459		47.8596
Total	**14.1801**	**0.3020**	**26.1220**	**1.3800e-003**		**0.1436**	**0.1436**		**0.1436**	**0.1436**	**0.0000**	**46.8957**	**46.8957**	**0.0459**	**0.0000**	**47.8596**

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	1.5287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.5322					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	0.7985	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436		46.8957	46.8957	0.0459		47.8596
Total	**13.8594**	**0.3020**	**26.1220**	**1.3800e-003**		**0.1436**	**0.1436**		**0.1436**	**0.1436**	**0.0000**	**46.8957**	**46.8957**	**0.0459**	**0.0000**	**47.8596**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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 Vegetation

Shoreline Gateway East Tower Project

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	458.00	Space	0.00	161,670.00	0
High Turnover (Sit Down Restaurant)	6.71	1000sqft	0.00	6,710.00	0
Apartments High Rise	315.00	Dwelling Unit	0.60	414,053.00	901

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total Total lot acerage for all land uses = 0.6 estimated from site plans, Residential (including common areas) SF = 414053 based on site plans

Construction Phase - Based on construction details

Off-road Equipment -

Off-road Equipment - Bore/Drill Rig added to account for pile driving activities during grading and excavation phase

Off-road Equipment -

Trips and VMT - Construction details from applicant

Grading - Total acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA.

Woodstoves - Based on site plans

Area Coating - Assumed compliance with SCAQMD Rule 1113 and 2006 EIR MM AQ-4

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assumed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only acocunts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00

tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	267.75	0.00
tblFireplaces	NumberNoFireplace	31.50	0.00
tblFireplaces	NumberWood	15.75	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LandUseSquareFeet	183,200.00	161,670.00
tblLandUse	LandUseSquareFeet	315,000.00	414,053.00
tblLandUse	LotAcreage	4.12	0.00
tblLandUse	LotAcreage	0.15	0.00
tblLandUse	LotAcreage	5.08	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.32
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	15.75	0.00
tblWoodstoves	NumberNoncatalytic	15.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	2.9218	31.0567	31.0413	0.0671	3.7123	1.0969	4.6719	0.9920	1.0336	1.8749	0.0000	6,643.1307	6,643.1307	0.5464	0.0000	6,654.6054
2018	22.8701	19.1765	33.7015	0.0749	4.3830	0.9604	5.3434	1.1699	0.8958	2.0656	0.0000	6,395.7406	6,395.7406	0.5782	0.0000	6,407.8828
2019	23.4635	25.1278	39.6606	0.0882	4.5842	1.2704	5.8545	1.2232	1.1827	2.4059	0.0000	7,429.6341	7,429.6341	0.8684	0.0000	7,447.8711
Total	**49.2554**	**75.3610**	**104.4034**	**0.2303**	**12.6794**	**3.3277**	**15.8698**	**3.3851**	**3.1121**	**6.3465**	**0.0000**	**20,468.5053**	**20,468.5053**	**1.9931**	**0.0000**	**20,510.3593**

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					
2017	2.9218	31.0567	31.0413	0.0671	3.7123	1.0969	4.6719	0.9920	1.0336	1.8749	0.0000	6,643.1307	6,643.1307	0.5464	0.0000	6,654.6054
2018	22.8701	19.1765	33.7015	0.0749	4.3830	0.9604	5.3434	1.1699	0.8958	2.0656	0.0000	6,395.7406	6,395.7406	0.5782	0.0000	6,407.8828
2019	23.4635	25.1278	39.6606	0.0882	4.5842	1.2704	5.8545	1.2232	1.1827	2.4059	0.0000	7,429.6341	7,429.6341	0.8684	0.0000	7,447.8711
Total	**49.2554**	**75.3610**	**104.4034**	**0.2303**	**12.6794**	**3.3277**	**15.8698**	**3.3851**	**3.1121**	**6.3465**	**0.0000**	**20,468.5053**	**20,468.5053**	**1.9931**	**0.0000**	**20,510.3593**

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

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	14.1801	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Energy	0.1385	1.2090	0.6885	7.5600e-003		0.0957	0.0957		0.0957	0.0957		1,511.1870	1,511.1870	0.0290	0.0277	1,520.3839
Mobile	9.5234	23.9663	96.7372	0.2796	19.5693	0.3851	19.9544	5.2290	0.3552	5.5842		21,647.7432	21,647.7432	0.7923		21,664.3823
Total	**23.8420**	**25.4773**	**123.5478**	**0.2885**	**19.5693**	**0.6244**	**20.1937**	**5.2290**	**0.5945**	**5.8235**	**0.0000**	**23,205.8260**	**23,205.8260**	**0.8672**	**0.0277**	**23,232.6257**

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	13.8594	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Energy	0.1172	1.0255	0.6020	6.3900e-003		0.0810	0.0810		0.0810	0.0810		1,278.5525	1,278.5525	0.0245	0.0234	1,286.3336
Mobile	9.0522	20.3490	85.0472	0.2301	15.9902	0.3199	16.3102	4.2726	0.2951	4.5678		17,810.7345	17,810.7345	0.6607		17,824.6086
Total	**23.0288**	**21.6766**	**111.7712**	**0.2378**	**15.9902**	**0.5445**	**16.5347**	**4.2726**	**0.5196**	**4.7923**	**0.0000**	**19,136.1827**	**19,136.1827**	**0.7311**	**0.0234**	**19,158.8018**

	ROG	NOx	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	**3.41**	**14.92**	**9.53**	**17.57**	**18.29**	**12.80**	**18.12**	**18.29**	**12.59**	**17.71**	**0.00**	**17.54**	**17.54**	**15.70**	**15.41**	**17.53**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 838,457; Residential Outdoor: 279,486; Non-Residential Indoor: 252,570; Non-Residential Outdoor: 84,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1	8.00	205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving				81	0.73
Paving				255	0.40
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	298.00	61.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8562	0.0000	0.8562	0.4291	0.0000	0.4291			0.0000			0.0000
Off-Road	1.5185	15.0344	10.5748	0.0208		0.8576	0.8576		0.8135	0.8135		2,077.1114	2,077.1114	0.5070		2,087.7579
Total	**1.5185**	**15.0344**	**10.5748**	**0.0208**	**0.8562**	**0.8576**	**1.7138**	**0.4291**	**0.8135**	**1.2427**		**2,077.1114**	**2,077.1114**	**0.5070**		**2,087.7579**

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	1.0394	15.9551	13.0481	0.0446	1.0563	0.2381	1.2944	0.2893	0.2190	0.5083		4,426.5494	4,426.5494	0.0321		4,427.2240
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	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.4700	139.4700	7.3200e-003		139.6236
Total	**1.0890**	**16.0223**	**13.7491**	**0.0464**	**1.2016**	**0.2393**	**1.4409**	**0.3278**	**0.2201**	**0.5479**		**4,566.0193**	**4,566.0193**	**0.0394**		**4,566.8476**

3.2 Grading - 2017

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					0.2740	0.0000	0.2740	0.1373	0.0000	0.1373			0.0000			0.0000
Off-Road	1.5185	15.0344	10.5748	0.0208		0.8576	0.8576		0.8135	0.8135	0.0000	2,077.1114	2,077.1114	0.5070		2,087.7579
Total	**1.5185**	**15.0344**	**10.5748**	**0.0208**	**0.2740**	**0.8576**	**1.1316**	**0.1373**	**0.8135**	**0.9509**	**0.0000**	**2,077.1114**	**2,077.1114**	**0.5070**		**2,087.7579**

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	1.0394	15.9551	13.0481	0.0446	1.0563	0.2381	1.2944	0.2893	0.2190	0.5083		4,426.5494	4,426.5494	0.0321		4,427.2240
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	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.4700	139.4700	7.3200e-003		139.6236
Total	**1.0890**	**16.0223**	**13.7491**	**0.0464**	**1.2016**	**0.2393**	**1.4409**	**0.3278**	**0.2201**	**0.5479**		**4,566.0193**	**4,566.0193**	**0.0394**		**4,566.8476**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**		**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.5102	4.9427	6.9331	0.0132	0.3813	0.0775	0.4589	0.1086	0.0713	0.1799		1,298.4696	1,298.4696	9.5200e-003		1,298.6696
Worker	1.1376	1.5387	16.0687	0.0395	3.3309	0.0268	3.3577	0.8834	0.0247	0.9081		3,197.0807	3,197.0807	0.1677		3,200.6027
Total	**1.6478**	**6.4813**	**23.0018**	**0.0527**	**3.7123**	**0.1043**	**3.8166**	**0.9920**	**0.0960**	**1.0880**		**4,495.5503**	**4,495.5503**	**0.1772**		**4,499.2723**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**	**0.0000**	**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.5102	4.9427	6.9331	0.0132	0.3813	0.0775	0.4589	0.1086	0.0713	0.1799		1,298.4696	1,298.4696	9.5200e-003		1,298.6696
Worker	1.1376	1.5387	16.0687	0.0395	3.3309	0.0268	3.3577	0.8834	0.0247	0.9081		3,197.0807	3,197.0807	0.1677		3,200.6027
Total	**1.6478**	**6.4813**	**23.0018**	**0.0527**	**3.7123**	**0.1043**	**3.8166**	**0.9920**	**0.0960**	**1.0880**		**4,495.5503**	**4,495.5503**	**0.1772**		**4,499.2723**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491		1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**		**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.4769	4.5366	6.6530	0.0132	0.3814	0.0730	0.4544	0.1086	0.0672	0.1758		1,276.6725	1,276.6725	9.4700e-003		1,276.8715
Worker	1.0232	1.3955	14.5424	0.0395	3.3309	0.0261	3.3570	0.8834	0.0241	0.9075		3,077.6997	3,077.6997	0.1557		3,080.9687
Total	**1.5001**	**5.9320**	**21.1954**	**0.0527**	**3.7123**	**0.0991**	**3.8114**	**0.9920**	**0.0913**	**1.0833**		**4,354.3722**	**4,354.3722**	**0.1651**		**4,357.8401**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491	0.0000	1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**	**0.0000**	**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.4769	4.5366	6.6530	0.0132	0.3814	0.0730	0.4544	0.1086	0.0672	0.1758		1,276.6725	1,276.6725	9.4700e-003		1,276.8715
Worker	1.0232	1.3955	14.5424	0.0395	3.3309	0.0261	3.3570	0.8834	0.0241	0.9075		3,077.6997	3,077.6997	0.1557		3,080.9687
Total	**1.5001**	**5.9320**	**21.1954**	**0.0527**	**3.7123**	**0.0991**	**3.8114**	**0.9920**	**0.0913**	**1.0833**		**4,354.3722**	**4,354.3722**	**0.1651**		**4,357.8401**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544		1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**		**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.4508	4.1828	6.4344	0.0131	0.3814	0.0693	0.4507	0.1086	0.0637	0.1724		1,251.7464	1,251.7464	9.3000e-003		1,251.9418
Worker	0.9408	1.2796	13.3279	0.0394	3.3309	0.0256	3.3566	0.8834	0.0238	0.9071		2,960.5313	2,960.5313	0.1457		2,963.5913
Total	**1.3917**	**5.4624**	**19.7623**	**0.0525**	**3.7123**	**0.0949**	**3.8072**	**0.9920**	**0.0875**	**1.0795**		**4,212.2777**	**4,212.2777**	**0.1550**		**4,215.5330**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544	0.0000	1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**	**0.0000**	**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.4508	4.1828	6.4344	0.0131	0.3814	0.0693	0.4507	0.1086	0.0637	0.1724		1,251.7464	1,251.7464	9.3000e-003		1,251.9418
Worker	0.9408	1.2796	13.3279	0.0394	3.3309	0.0256	3.3566	0.8834	0.0238	0.9071		2,960.5313	2,960.5313	0.1457		2,963.5913
Total	**1.3917**	**5.4624**	**19.7623**	**0.0525**	**3.7123**	**0.0949**	**3.8072**	**0.9920**	**0.0875**	**1.0795**		**4,212.2777**	**4,212.2777**	**0.1550**		**4,215.5330**

3.4 Architectural Coating - 2018

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**20.0854**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.2060	0.2810	2.9280	7.9500e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8600e-003	0.1827		619.6711	619.6711	0.0313		620.3293
Total	**0.2060**	**0.2810**	**2.9280**	**7.9500e-003**	**0.6707**	**5.2500e-003**	**0.6759**	**0.1779**	**4.8600e-003**	**0.1827**		**619.6711**	**619.6711**	**0.0313**		**620.3293**

3.4 Architectural Coating - 2018

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**20.0854**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.2060	0.2810	2.9280	7.9500e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8600e-003	0.1827		619.6711	619.6711	0.0313		620.3293
Total	**0.2060**	**0.2810**	**2.9280**	**7.9500e-003**	**0.6707**	**5.2500e-003**	**0.6759**	**0.1779**	**4.8600e-003**	**0.1827**		**619.6711**	**619.6711**	**0.0313**		**620.3293**

3.4 Architectural Coating - 2019

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**20.0532**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1894	0.2576	2.6835	7.9400e-003	0.6707	5.1600e-003	0.6758	0.1779	4.7800e-003	0.1826		596.0801	596.0801	0.0293		596.6962
Total	**0.1894**	**0.2576**	**2.6835**	**7.9400e-003**	**0.6707**	**5.1600e-003**	**0.6758**	**0.1779**	**4.7800e-003**	**0.1826**		**596.0801**	**596.0801**	**0.0293**		**596.6962**

3.4 Architectural Coating - 2019

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	19.7868					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**20.0532**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1894	0.2576	2.6835	7.9400e-003	0.6707	5.1600e-003	0.6758	0.1779	4.7800e-003	0.1826		596.0801	596.0801	0.0293		596.6962
Total	**0.1894**	**0.2576**	**2.6835**	**7.9400e-003**	**0.6707**	**5.1600e-003**	**0.6758**	**0.1779**	**4.7800e-003**	**0.1826**		**596.0801**	**596.0801**	**0.0293**		**596.6962**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059		1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**		**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0568	0.0773	0.8050	2.3800e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		178.8240	178.8240	8.8000e-003		179.0089
Total	**0.0568**	**0.0773**	**0.8050**	**2.3800e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**178.8240**	**178.8240**	**8.8000e-003**		**179.0089**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059	0.0000	1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**	**0.0000**	**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0568	0.0773	0.8050	2.3800e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		178.8240	178.8240	8.8000e-003		179.0089
Total	**0.0568**	**0.0773**	**0.8050**	**2.3800e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**178.8240**	**178.8240**	**8.8000e-003**		**179.0089**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.0522	20.3490	85.0472	0.2301	15.9902	0.3199	16.3102	4.2726	0.2951	4.5678		17,810.7345	17,810.7345	0.6607		17,824.6086
Unmitigated	9.5234	23.9663	96.7372	0.2796	19.5693	0.3851	19.9544	5.2290	0.3552	5.5842		21,647.7432	21,647.7432	0.7923		21,664.3823

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,990.80	2,255.40	1912.05	6,893,591	5,632,802
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,114.53	1,062.66	884.65	1,464,062	1,196,296
Total	3,105.33	3,318.06	2,796.70	8,357,654	6,829,098

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1172	1.0255	0.6020	6.3900e-003		0.0810	0.0810		0.0810	0.0810		1,278.5525	1,278.5525	0.0245	0.0234	1,286.3336
NaturalGas Unmitigated	0.1385	1.2090	0.6885	7.5600e-003		0.0957	0.0957		0.0957	0.0957		1,511.1870	1,511.1870	0.0290	0.0277	1,520.3839

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4283.55	0.0462	0.4200	0.3528	2.5200e-003		0.0319	0.0319		0.0319	0.0319		503.9475	503.9475	9.6600e-003	9.2400e-003	507.0144
Apartments High Rise	8561.54	0.0923	0.7890	0.3358	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.2395	1,007.2395	0.0193	0.0185	1,013.3694
Total		**0.1385**	**1.2090**	**0.6885**	**7.5600e-003**		**0.0957**	**0.0957**		**0.0957**	**0.0957**		**1,511.1870**	**1,511.1870**	**0.0290**	**0.0277**	**1,520.3839**

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					
High Turnover (Sit Down Restaurant)	4.07568	0.0440	0.3996	0.3356	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.4920	479.4920	9.1900e-003	8.7900e-003	482.4101
Apartments High Rise	6.79201	0.0733	0.6259	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.0606	799.0606	0.0153	0.0147	803.9235
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
Total		**0.1172**	**1.0255**	**0.6020**	**6.4000e-003**		**0.0810**	**0.0810**		**0.0810**	**0.0810**		**1,278.5525**	**1,278.5525**	**0.0245**	**0.0234**	**1,286.3336**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.8594	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596
Unmitigated	14.1801	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436	0.0000	46.8957	46.8957	0.0459	0.0000	47.8596

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.5322					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	0.7985	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436		46.8957	46.8957	0.0459		47.8596
Total	**14.1801**	**0.3020**	**26.1220**	**1.3800e-003**		**0.1436**	**0.1436**		**0.1436**	**0.1436**	**0.0000**	**46.8957**	**46.8957**	**0.0459**	**0.0000**	**47.8596**

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	1.5287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.5322					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	0.7985	0.3020	26.1220	1.3800e-003		0.1436	0.1436		0.1436	0.1436		46.8957	46.8957	0.0459		47.8596
Total	**13.8594**	**0.3020**	**26.1220**	**1.3800e-003**		**0.1436**	**0.1436**		**0.1436**	**0.1436**	**0.0000**	**46.8957**	**46.8957**	**0.0459**	**0.0000**	**47.8596**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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 Vegetation

Shoreline Gateway East Tower Project

South Coast Air Basin, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
	Diesel	No Change	0	0	No Change	0.00
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Bore/Drill Rigs	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	4.00000E-002	2.71650E-001	2.60600E-001	4.20000E-004	1.98000E-002	1.98000E-002	0.00000E+000	3.60009E+001	3.60009E+001	3.24000E-003	0.00000E+000	3.60690E+001
Bore/Drill Rigs	1.34900E-002	1.96010E-001	8.56700E-002	3.80000E-004	5.63000E-003	5.18000E-003	0.00000E+000	3.48466E+001	3.48466E+001	1.06800E-002	0.00000E+000	3.50708E+001
Cement and Mortar Mixers	3.53000E-003	2.20900E-002	1.85000E-002	4.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.74966E+000	2.74966E+000	2.90000E-004	0.00000E+000	2.75565E+000
Concrete/Industrial Saws	2.49800E-002	1.83230E-001	1.61210E-001	2.70000E-004	1.31800E-002	1.31800E-002	0.00000E+000	2.31192E+001	2.31192E+001	2.03000E-003	0.00000E+000	2.31619E+001
Cranes	8.07700E-002	9.62540E-001	3.54360E-001	8.00000E-004	4.19200E-002	3.85700E-002	0.00000E+000	7.30067E+001	7.30067E+001	2.27000E-002	0.00000E+000	7.34834E+001
Forklifts	7.81100E-002	6.86880E-001	5.17440E-001	6.50000E-004	5.51300E-002	5.07200E-002	0.00000E+000	5.92958E+001	5.92958E+001	1.84400E-002	0.00000E+000	5.96830E+001
Pavers	4.84000E-003	5.25800E-002	4.88300E-002	8.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	7.10589E+000	7.10589E+000	2.25000E-003	0.00000E+000	7.15310E+000
Rollers	3.96000E-003	3.92200E-002	3.33800E-002	5.00000E-005	2.58000E-003	2.37000E-003	0.00000E+000	4.12267E+000	4.12267E+000	1.30000E-003	0.00000E+000	4.15006E+000
Rubber Tired Dozers	6.40000E-003	7.09100E-002	5.34300E-002	5.00000E-005	3.29000E-003	3.03000E-003	0.00000E+000	4.43731E+000	4.43731E+000	1.36000E-003	0.00000E+000	4.46586E+000
Tractors/Loaders/Backhoes	1.79580E-001	1.75942E+000	1.52276E+000	2.01000E-003	1.26390E-001	1.16280E-001	0.00000E+000	1.84350E+002	1.84350E+002	5.72600E-002	0.00000E+000	1.85552E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	4.00000E-002	2.71650E-001	2.60600E-001	4.20000E-004	1.98000E-002	1.98000E-002	0.00000E+000	3.60009E+001	3.60009E+001	3.24000E-003	0.00000E+000	3.60690E+001
Bore/Drill Rigs	1.34900E-002	1.96010E-001	8.56700E-002	3.80000E-004	5.63000E-003	5.18000E-003	0.00000E+000	3.48466E+001	3.48466E+001	1.06800E-002	0.00000E+000	3.50708E+001
Cement and Mortar Mixers	3.53000E-003	2.20900E-002	1.85000E-002	4.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.74965E+000	2.74965E+000	2.90000E-004	0.00000E+000	2.75565E+000
Concrete/Industrial Saws	2.49800E-002	1.83230E-001	1.61210E-001	2.70000E-004	1.31800E-002	1.31800E-002	0.00000E+000	2.31192E+001	2.31192E+001	2.03000E-003	0.00000E+000	2.31619E+001
Cranes	8.07700E-002	9.62540E-001	3.54360E-001	8.00000E-004	4.19200E-002	3.85700E-002	0.00000E+000	7.30066E+001	7.30066E+001	2.27000E-002	0.00000E+000	7.34833E+001
Forklifts	7.81100E-002	6.86880E-001	5.17440E-001	6.50000E-004	5.51300E-002	5.07200E-002	0.00000E+000	5.92957E+001	5.92957E+001	1.84400E-002	0.00000E+000	5.96829E+001
Pavers	4.84000E-003	5.25800E-002	4.88300E-002	8.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	7.10588E+000	7.10588E+000	2.25000E-003	0.00000E+000	7.15309E+000
Rollers	3.96000E-003	3.92200E-002	3.33800E-002	5.00000E-005	2.58000E-003	2.37000E-003	0.00000E+000	4.12267E+000	4.12267E+000	1.30000E-003	0.00000E+000	4.15006E+000
Rubber Tired Dozers	6.40000E-003	7.09100E-002	5.34300E-002	5.00000E-005	3.29000E-003	3.03000E-003	0.00000E+000	4.43730E+000	4.43730E+000	1.36000E-003	0.00000E+000	4.46586E+000
Tractors/Loaders/Backhoes	1.79580E-001	1.75942E+000	1.52276E+000	2.01000E-003	1.26390E-001	1.16280E-001	0.00000E+000	1.84349E+002	1.84349E+002	5.72600E-002	0.00000E+000	1.85552E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11108E-006	1.11108E-006	0.00000E+000	0.00000E+000	1.10898E-006
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14789E-006	1.14789E-006	0.00000E+000	0.00000E+000	1.42569E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.63681E-006	3.63681E-006	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29762E-006	1.29762E-006	0.00000E+000	0.00000E+000	1.29523E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23276E-006	1.23276E-006	0.00000E+000	0.00000E+000	1.08868E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18052E-006	1.18052E-006	0.00000E+000	0.00000E+000	1.17286E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.40728E-006	1.40728E-006	0.00000E+000	0.00000E+000	1.39800E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.25362E-006	2.25362E-006	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19338E-006	1.19338E-006	0.00000E+000	0.00000E+000	1.18565E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	68.00	PM2.5 Reduction	68.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	25.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.09	0.02	0.09	0.02	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	1.03	0.28	1.03	0.28	0.00	0.00
Grading	Fugitive Dust	0.04	0.02	0.01	0.01	0.68	0.68
Grading	Roads	0.05	0.01	0.05	0.01	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	17.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.08	19.08	19.06	19.21	19.08
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	5.23	15.09	12.29	17.71	16.96	16.95	0.00	17.71	17.71	16.61	0.00	17.71
Natural Gas	15.39	15.17	12.56	15.22	15.35	15.35	0.00	15.39	15.39	15.42	15.25	15.39
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	13.38	13.74	19.96	19.68	14.59
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	4.77	525.00		
Yes	Land Use	Increase Diversity	0.07	0.27		
No	Land Use	Improve Walkability Design	0.00			
Yes	Land Use	Improve Destination Accessibility	0.20	0.00		
Yes	Land Use	Increase Transit Accessibility	0.08	0.60		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.18			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
Yes	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			

		Land Use and Site Enhancement Subtotal	0.18			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.18			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	100.00
Yes	Use Low VOC Paint (Non-residential Interior)	150.00
Yes	Use Low VOC Paint (Non-residential Exterior)	150.00
No	% Electric Lawnmower	0.00

No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	25.00	
Yes	Install High Efficiency Lighting	35.00	
No	On-site Renewable	0.00	0.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher	Apartments High Rise	30.00
DishWasher	Apartments High Rise	15.00
Fan		50.00
Refrigerator	Apartments High Rise	15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	

Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Approved Shoreline Gateway East Tower Project

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	403.00	Space	0.00	161,200.00	0
High Turnover (Sit Down Restaurant)	6.27	1000sqft	0.00	6,270.00	0
Apartments High Rise	221.00	Dwelling Unit	0.60	221,000.00	632

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Ttotal lot acreage for all uses = 0. estimated from site plans

Construction Phase - Based on construction details

Off-road Equipment - Bore/drill Rig added to account for pile driving during the grading and excavation phase

Trips and VMT - Applicant details - 14 CY trucks

Grading - Total lot acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1114 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA

Woodstoves - Based on site plans

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assummed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only accounts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68

tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00
tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	187.85	0.00
tblFireplaces	NumberNoFireplace	22.10	0.00
tblFireplaces	NumberWood	11.05	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LotAcreage	3.63	0.00
tblLandUse	LotAcreage	0.14	0.00
tblLandUse	LotAcreage	3.56	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.26
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	11.05	0.00
tblWoodstoves	NumberNoncatalytic	11.05	0.00

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3164	2.7264	3.2411	7.1500e-003	0.3335	0.1233	0.4569	0.0982	0.1145	0.2127	0.0000	599.1631	599.1631	0.0495	0.0000	600.2017
2018	1.4078	2.2470	3.5218	7.6400e-003	0.4069	0.1143	0.5212	0.1089	0.1061	0.2150	0.0000	598.6664	598.6664	0.0606	0.0000	599.9387
2019	1.1171	1.2288	1.9387	4.3500e-003	0.2221	0.0620	0.2841	0.0594	0.0578	0.1172	0.0000	332.8864	332.8864	0.0365	0.0000	333.6525
Total	**2.8413**	**6.2021**	**8.7016**	**0.0191**	**0.9626**	**0.2996**	**1.2622**	**0.2665**	**0.2784**	**0.5449**	**0.0000**	**1,530.7159**	**1,530.7159**	**0.1465**	**0.0000**	**1,533.7929**

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					
2017	0.3164	2.7263	3.2411	7.1500e-003	0.5686	0.1233	0.6920	0.1525	0.1145	0.2670	0.0000	599.1630	599.1630	0.0495	0.0000	600.2016
2018	1.4078	2.2470	3.5218	7.6400e-003	0.7539	0.1143	0.8682	0.1941	0.1061	0.3001	0.0000	598.6662	598.6662	0.0606	0.0000	599.9385
2019	1.1171	1.2288	1.9387	4.3500e-003	0.4118	0.0620	0.4738	0.1060	0.0578	0.1638	0.0000	332.8862	332.8862	0.0365	0.0000	333.6524
Total	**2.8413**	**6.2021**	**8.7016**	**0.0191**	**1.7343**	**0.2996**	**2.0340**	**0.4525**	**0.2784**	**0.7309**	**0.0000**	**1,530.7154**	**1,530.7154**	**0.1465**	**0.0000**	**1,533.7925**

	ROG	NOx	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**	**-80.17**	**0.00**	**-61.14**	**-69.82**	**0.00**	**-34.15**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	1.7349	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Energy	0.0197	0.1726	0.1032	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	814.0493	814.0493	0.0322	9.4600e-003	817.6586
Mobile	1.1529	3.0106	12.1235	0.0345	4.3362	0.0470	4.3831	1.1162	0.0433	1.1595	0.0000	2,422.4359	2,422.4359	0.0879	0.0000	2,424.2817
Waste						0.0000	0.0000		0.0000	0.0000	35.7812	0.0000	35.7812	2.1146	0.0000	80.1880
Water						0.0000	0.0000		0.0000	0.0000	5.1719	89.9918	95.1638	0.5353	0.0134	110.5596
Total	**2.9076**	**3.2097**	**14.5186**	**0.0357**	**4.3362**	**0.0732**	**4.4093**	**1.1162**	**0.0695**	**1.1857**	**40.9532**	**3,330.2101**	**3,371.1632**	**2.7737**	**0.0229**	**3,436.4978**

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	1.6767	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Energy	0.0169	0.1483	0.0913	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	661.0912	661.0912	0.0259	7.7600e-003	664.0411
Mobile	1.0900	2.5226	10.5360	0.0279	3.4758	0.0384	3.5142	0.8947	0.0354	0.9301	0.0000	1,957.8210	1,957.8210	0.0721	0.0000	1,959.3359
Waste						0.0000	0.0000		0.0000	0.0000	35.7812	0.0000	35.7812	2.1146	0.0000	80.1880
Water						0.0000	0.0000		0.0000	0.0000	4.1376	77.8429	81.9804	0.4285	0.0108	94.3134
Total	**2.7836**	**2.6974**	**12.9193**	**0.0289**	**3.4758**	**0.0626**	**3.5384**	**0.8947**	**0.0596**	**0.9543**	**39.9188**	**2,700.4881**	**2,740.4068**	**2.6448**	**0.0185**	**2,801.6882**

	ROG	NOx	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	**4.26**	**15.96**	**11.02**	**18.96**	**19.84**	**14.41**	**19.75**	**19.84**	**14.21**	**19.51**	**2.53**	**18.91**	**18.71**	**4.65**	**18.99**	**18.47**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 447,525; Residential Outdoor: 149,175; Non-Residential Indoor: 251,205; Non-Residential Outdoor: 83,735 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1		205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	229.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	46.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

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					0.0368	0.0000	0.0368	0.0185	0.0000	0.0185	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0518	0.4505	0.3691	5.2000e-004		0.0312	0.0312		0.0298	0.0298	0.0000	46.1793	46.1793	9.1000e-003	0.0000	46.3704
Total	**0.0518**	**0.4505**	**0.3691**	**5.2000e-004**	**0.0368**	**0.0312**	**0.0681**	**0.0185**	**0.0298**	**0.0483**	**0.0000**	**46.1793**	**46.1793**	**9.1000e-003**	**0.0000**	**46.3704**

3.2 Grading - 2017

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	0.0441	0.6978	0.5507	1.9200e-003	0.0447	0.0102	0.0549	0.0123	9.4100e-003	0.0217	0.0000	172.9136	172.9136	1.2400e-003	0.0000	172.9397
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	2.0100e-003	2.9700e-003	0.0309	8.0000e-005	6.1300e-003	5.0000e-005	6.1800e-003	1.6300e-003	5.0000e-005	1.6800e-003	0.0000	5.5254	5.5254	2.9000e-004	0.0000	5.5314
Total	**0.0461**	**0.7008**	**0.5816**	**2.0000e-003**	**0.0508**	**0.0103**	**0.0611**	**0.0139**	**9.4600e-003**	**0.0233**	**0.0000**	**178.4390**	**178.4390**	**1.5300e-003**	**0.0000**	**178.4711**

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					0.0236	0.0000	0.0236	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0518	0.4505	0.3691	5.2000e-004		0.0312	0.0312		0.0298	0.0298	0.0000	46.1793	46.1793	9.1000e-003	0.0000	46.3703
Total	**0.0518**	**0.4505**	**0.3691**	**5.2000e-004**	**0.0236**	**0.0312**	**0.0548**	**0.0118**	**0.0298**	**0.0416**	**0.0000**	**46.1793**	**46.1793**	**9.1000e-003**	**0.0000**	**46.3703**

3.2 Grading - 2017

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	0.0441	0.6978	0.5507	1.9200e-003	0.0784	0.0102	0.0887	0.0205	9.4100e-003	0.0300	0.0000	172.9136	172.9136	1.2400e-003	0.0000	172.9397
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	2.0100e-003	2.9700e-003	0.0309	8.0000e-005	0.0115	5.0000e-005	0.0115	2.9300e-003	5.0000e-005	2.9800e-003	0.0000	5.5254	5.5254	2.9000e-004	0.0000	5.5314
Total	**0.0461**	**0.7008**	**0.5816**	**2.0000e-003**	**0.0899**	**0.0103**	**0.1002**	**0.0235**	**9.4600e-003**	**0.0329**	**0.0000**	**178.4390**	**178.4390**	**1.5300e-003**	**0.0000**	**178.4711**

3.3 Building Construction - 2017

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	0.1108	1.1026	0.6994	9.9000e-004		0.0744	0.0744		0.0685	0.0685	0.0000	91.5161	91.5161	0.0280	0.0000	92.1049
Total	**0.1108**	**1.1026**	**0.6994**	**9.9000e-004**		**0.0744**	**0.0744**		**0.0685**	**0.0685**	**0.0000**	**91.5161**	**91.5161**	**0.0280**	**0.0000**	**92.1049**

3.3 Building Construction - 2017

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	0.0361	0.3666	0.4900	9.6000e-004	0.0273	5.6100e-003	0.0329	7.7900e-003	5.1600e-003	0.0130	0.0000	86.1025	86.1025	6.2000e-004	0.0000	86.1155
Worker	0.0716	0.1059	1.1010	2.6800e-003	0.2186	1.7900e-003	0.2204	0.0581	1.6500e-003	0.0597	0.0000	196.9263	196.9263	0.0102	0.0000	197.1399
Total	**0.1077**	**0.4725**	**1.5911**	**3.6400e-003**	**0.2459**	**7.4000e-003**	**0.2533**	**0.0658**	**6.8100e-003**	**0.0727**	**0.0000**	**283.0288**	**283.0288**	**0.0108**	**0.0000**	**283.2554**

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	0.1108	1.1026	0.6994	9.9000e-004		0.0744	0.0744		0.0685	0.0685	0.0000	91.5160	91.5160	0.0280	0.0000	92.1048
Total	**0.1108**	**1.1026**	**0.6994**	**9.9000e-004**		**0.0744**	**0.0744**		**0.0685**	**0.0685**	**0.0000**	**91.5160**	**91.5160**	**0.0280**	**0.0000**	**92.1048**

3.3 Building Construction - 2017

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	0.0361	0.3666	0.4900	9.6000e-004	0.0471	5.6100e-003	0.0527	0.0127	5.1600e-003	0.0178	0.0000	86.1025	86.1025	6.2000e-004	0.0000	86.1155
Worker	0.0716	0.1059	1.1010	2.6800e-003	0.4081	1.7900e-003	0.4099	0.1046	1.6500e-003	0.1062	0.0000	196.9263	196.9263	0.0102	0.0000	197.1399
Total	**0.1077**	**0.4725**	**1.5911**	**3.6400e-003**	**0.4552**	**7.4000e-003**	**0.4626**	**0.1172**	**6.8100e-003**	**0.1240**	**0.0000**	**283.0288**	**283.0288**	**0.0108**	**0.0000**	**283.2554**

3.3 Building Construction - 2018

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	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847	0.0000	134.9913	134.9913	0.0420	0.0000	135.8738
Total	**0.1408**	**1.4300**	**1.0080**	**1.4800e-003**		**0.0921**	**0.0921**		**0.0847**	**0.0847**	**0.0000**	**134.9913**	**134.9913**	**0.0420**	**0.0000**	**135.8738**

3.3 Building Construction - 2018

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	0.0507	0.5047	0.7042	1.4400e-003	0.0410	7.9300e-003	0.0489	0.0117	7.2900e-003	0.0190	0.0000	126.9870	126.9870	9.2000e-004	0.0000	127.0064
Worker	0.0964	0.1441	1.4958	4.0200e-003	0.3279	2.6200e-003	0.3305	0.0871	2.4200e-003	0.0895	0.0000	284.3639	284.3639	0.0142	0.0000	284.6613
Total	**0.1471**	**0.6488**	**2.2000**	**5.4600e-003**	**0.3688**	**0.0106**	**0.3794**	**0.0988**	**9.7100e-003**	**0.1085**	**0.0000**	**411.3509**	**411.3509**	**0.0151**	**0.0000**	**411.6676**

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	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847	0.0000	134.9912	134.9912	0.0420	0.0000	135.8737
Total	**0.1408**	**1.4300**	**1.0080**	**1.4800e-003**		**0.0921**	**0.0921**		**0.0847**	**0.0847**	**0.0000**	**134.9912**	**134.9912**	**0.0420**	**0.0000**	**135.8737**

3.3 Building Construction - 2018

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	0.0507	0.5047	0.7042	1.4400e-003	0.0707	7.9300e-003	0.0786	0.0190	7.2900e-003	0.0263	0.0000	126.9870	126.9870	9.2000e-004	0.0000	127.0064
Worker	0.0964	0.1441	1.4958	4.0200e-003	0.6121	2.6200e-003	0.6147	0.1568	2.4200e-003	0.1593	0.0000	284.3639	284.3639	0.0142	0.0000	284.6613
Total	**0.1471**	**0.6488**	**2.2000**	**5.4600e-003**	**0.6828**	**0.0106**	**0.6933**	**0.1758**	**9.7100e-003**	**0.1855**	**0.0000**	**411.3509**	**411.3509**	**0.0151**	**0.0000**	**411.6676**

3.3 Building Construction - 2019

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	0.0624	0.6390	0.4925	7.4000e-004		0.0395	0.0395		0.0363	0.0363	0.0000	66.6395	66.6395	0.0211	0.0000	67.0822
Total	**0.0624**	**0.6390**	**0.4925**	**7.4000e-004**		**0.0395**	**0.0395**		**0.0363**	**0.0363**	**0.0000**	**66.6395**	**66.6395**	**0.0211**	**0.0000**	**67.0822**

3.3 Building Construction - 2019

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	0.0241	0.2336	0.3415	7.2000e-004	0.0206	3.7700e-003	0.0243	5.8700e-003	3.4700e-003	9.3400e-003	0.0000	62.4938	62.4938	4.5000e-004	0.0000	62.5033
Worker	0.0444	0.0663	0.6884	2.0200e-003	0.1646	1.2900e-003	0.1659	0.0437	1.2000e-003	0.0449	0.0000	137.2946	137.2946	6.6500e-003	0.0000	137.4343
Total	**0.0685**	**0.2999**	**1.0299**	**2.7400e-003**	**0.1851**	**5.0600e-003**	**0.1902**	**0.0496**	**4.6700e-003**	**0.0542**	**0.0000**	**199.7884**	**199.7884**	**7.1000e-003**	**0.0000**	**199.9376**

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	0.0624	0.6390	0.4925	7.4000e-004		0.0395	0.0395		0.0363	0.0363	0.0000	66.6394	66.6394	0.0211	0.0000	67.0822
Total	**0.0624**	**0.6390**	**0.4925**	**7.4000e-004**		**0.0395**	**0.0395**		**0.0363**	**0.0363**	**0.0000**	**66.6394**	**66.6394**	**0.0211**	**0.0000**	**67.0822**

3.3 Building Construction - 2019

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	0.0241	0.2336	0.3415	7.2000e-004	0.0355	3.7700e-003	0.0393	9.5300e-003	3.4700e-003	0.0130	0.0000	62.4938	62.4938	4.5000e-004	0.0000	62.5033
Worker	0.0444	0.0663	0.6884	2.0200e-003	0.3072	1.2900e-003	0.3085	0.0787	1.2000e-003	0.0799	0.0000	137.2946	137.2946	6.6500e-003	0.0000	137.4343
Total	**0.0685**	**0.2999**	**1.0299**	**2.7400e-003**	**0.3427**	**5.0600e-003**	**0.3478**	**0.0883**	**4.6700e-003**	**0.0929**	**0.0000**	**199.7884**	**199.7884**	**7.1000e-003**	**0.0000**	**199.9376**

3.4 Architectural Coating - 2018

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	1.0863					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1514	0.1400	2.2000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.2771	19.2771	1.8300e-003	0.0000	19.3156
Total	**1.1088**	**0.1514**	**0.1400**	**2.2000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**19.2771**	**19.2771**	**1.8300e-003**	**0.0000**	**19.3156**

3.4 Architectural Coating - 2018

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	0.0112	0.0168	0.1738	4.7000e-004	0.0381	3.0000e-004	0.0384	0.0101	2.8000e-004	0.0104	0.0000	33.0471	33.0471	1.6500e-003	0.0000	33.0817
Total	**0.0112**	**0.0168**	**0.1738**	**4.7000e-004**	**0.0381**	**3.0000e-004**	**0.0384**	**0.0101**	**2.8000e-004**	**0.0104**	**0.0000**	**33.0471**	**33.0471**	**1.6500e-003**	**0.0000**	**33.0817**

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	1.0863					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1514	0.1400	2.2000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.2771	19.2771	1.8300e-003	0.0000	19.3155
Total	**1.1088**	**0.1514**	**0.1400**	**2.2000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**19.2771**	**19.2771**	**1.8300e-003**	**0.0000**	**19.3155**

3.4 Architectural Coating - 2018

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	0.0112	0.0168	0.1738	4.7000e-004	0.0711	3.0000e-004	0.0714	0.0182	2.8000e-004	0.0185	0.0000	33.0471	33.0471	1.6500e-003	0.0000	33.0817
Total	**0.0112**	**0.0168**	**0.1738**	**4.7000e-004**	**0.0711**	**3.0000e-004**	**0.0714**	**0.0182**	**2.8000e-004**	**0.0185**	**0.0000**	**33.0471**	**33.0471**	**1.6500e-003**	**0.0000**	**33.0817**

3.4 Architectural Coating - 2019

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	0.9424					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1202	0.1206	1.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	16.7238	16.7238	1.4100e-003	0.0000	16.7535
Total	**0.9598**	**0.1202**	**0.1206**	**1.9000e-004**		**8.4300e-003**	**8.4300e-003**		**8.4300e-003**	**8.4300e-003**	**0.0000**	**16.7238**	**16.7238**	**1.4100e-003**	**0.0000**	**16.7535**

3.4 Architectural Coating - 2019

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	8.9300e-003	0.0133	0.1383	4.0000e-004	0.0331	2.6000e-004	0.0333	8.7800e-003	2.4000e-004	9.0200e-003	0.0000	27.5788	27.5788	1.3400e-003	0.0000	27.6069
Total	**8.9300e-003**	**0.0133**	**0.1383**	**4.0000e-004**	**0.0331**	**2.6000e-004**	**0.0333**	**8.7800e-003**	**2.4000e-004**	**9.0200e-003**	**0.0000**	**27.5788**	**27.5788**	**1.3400e-003**	**0.0000**	**27.6069**

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	0.9424					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1202	0.1206	1.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	16.7238	16.7238	1.4100e-003	0.0000	16.7535
Total	**0.9598**	**0.1202**	**0.1206**	**1.9000e-004**		**8.4300e-003**	**8.4300e-003**		**8.4300e-003**	**8.4300e-003**	**0.0000**	**16.7238**	**16.7238**	**1.4100e-003**	**0.0000**	**16.7535**

3.4 Architectural Coating - 2019

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	8.9300e-003	0.0133	0.1383	4.0000e-004	0.0617	2.6000e-004	0.0620	0.0158	2.4000e-004	0.0161	0.0000	27.5788	27.5788	1.3400e-003	0.0000	27.6069
Total	**8.9300e-003**	**0.0133**	**0.1383**	**4.0000e-004**	**0.0617**	**2.6000e-004**	**0.0620**	**0.0158**	**2.4000e-004**	**0.0161**	**0.0000**	**27.5788**	**27.5788**	**1.3400e-003**	**0.0000**	**27.6069**

3.5 Paving - 2019

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	0.0164	0.1548	0.1410	2.2000e-004		8.7500e-003	8.7500e-003		8.1200e-003	8.1200e-003	0.0000	18.8607	18.8607	5.3800e-003	0.0000	18.9737
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1548**	**0.1410**	**2.2000e-004**		**8.7500e-003**	**8.7500e-003**		**8.1200e-003**	**8.1200e-003**	**0.0000**	**18.8607**	**18.8607**	**5.3800e-003**	**0.0000**	**18.9737**

3.5 Paving - 2019

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	1.0700e-003	1.5900e-003	0.0165	5.0000e-005	3.9500e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.2952	3.2952	1.6000e-004	0.0000	3.2985
Total	**1.0700e-003**	**1.5900e-003**	**0.0165**	**5.0000e-005**	**3.9500e-003**	**3.0000e-005**	**3.9800e-003**	**1.0500e-003**	**3.0000e-005**	**1.0800e-003**	**0.0000**	**3.2952**	**3.2952**	**1.6000e-004**	**0.0000**	**3.2985**

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	0.0164	0.1548	0.1410	2.2000e-004		8.7500e-003	8.7500e-003		8.1200e-003	8.1200e-003	0.0000	18.8607	18.8607	5.3800e-003	0.0000	18.9737
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1548**	**0.1410**	**2.2000e-004**		**8.7500e-003**	**8.7500e-003**		**8.1200e-003**	**8.1200e-003**	**0.0000**	**18.8607**	**18.8607**	**5.3800e-003**	**0.0000**	**18.9737**

3.5 Paving - 2019

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	1.0700e-003	1.5900e-003	0.0165	5.0000e-005	7.3700e-003	3.0000e-005	7.4000e-003	1.8900e-003	3.0000e-005	1.9200e-003	0.0000	3.2952	3.2952	1.6000e-004	0.0000	3.2985
Total	**1.0700e-003**	**1.5900e-003**	**0.0165**	**5.0000e-005**	**7.3700e-003**	**3.0000e-005**	**7.4000e-003**	**1.8900e-003**	**3.0000e-005**	**1.9200e-003**	**0.0000**	**3.2952**	**3.2952**	**1.6000e-004**	**0.0000**	**3.2985**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	1.0900	2.5226	10.5360	0.0279	3.4758	0.0384	3.5142	0.8947	0.0354	0.9301	0.0000	1,957.8210	1,957.8210	0.0721	0.0000	1,959.3359
Unmitigated	1.1529	3.0106	12.1235	0.0345	4.3362	0.0470	4.3831	1.1162	0.0433	1.1595	0.0000	2,422.4359	2,422.4359	0.0879	0.0000	2,424.2817

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,383.46	1,582.36	1341.47	4,804,091	3,850,888
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,041.45	992.98	826.64	1,368,058	1,096,615
Total	2,424.91	2,575.34	2,168.11	6,172,149	4,947,503

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	494.0961	494.0961	0.0227	4.7000e-003	496.0297
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	619.0897	619.0897	0.0285	5.8900e-003	621.5125
NaturalGas Mitigated	0.0169	0.1483	0.0913	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	166.9951	166.9951	3.2000e-003	3.0600e-003	168.0114
NaturalGas Unmitigated	0.0197	0.1726	0.1032	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	194.9596	194.9596	3.7400e-003	3.5700e-003	196.1461

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					
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
High Turnover (Sit Down Restaurant)	1.46097e+006	7.8800e-003	0.0716	0.0602	4.3000e-004		5.4400e-003	5.4400e-003		5.4400e-003	5.4400e-003	0.0000	77.9631	77.9631	1.4900e-003	1.4300e-003	78.4375
Apartments High Rise	2.19243e+006	0.0118	0.1010	0.0430	6.4000e-004		8.1700e-003	8.1700e-003		8.1700e-003	8.1700e-003	0.0000	116.9966	116.9966	2.2400e-003	2.1400e-003	117.7086
Total		**0.0197**	**0.1726**	**0.1032**	**1.0700e-003**		**0.0136**	**0.0136**		**0.0136**	**0.0136**	**0.0000**	**194.9596**	**194.9596**	**3.7300e-003**	**3.5700e-003**	**196.1461**

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					
High Turnover (Sit Down Restaurant)	1.39007e+006	7.5000e-003	0.0681	0.0572	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	74.1797	74.1797	1.4200e-003	1.3600e-003	74.6311
Apartments High Rise	1.73929e+006	9.3800e-003	0.0801	0.0341	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.8154	92.8154	1.7800e-003	1.7000e-003	93.3803
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
Total		**0.0169**	**0.1483**	**0.0913**	**9.2000e-004**		**0.0117**	**0.0117**		**0.0117**	**0.0117**	**0.0000**	**166.9951**	**166.9951**	**3.2000e-003**	**3.0600e-003**	**168.0114**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	782773	224.0038	0.0103	2.1300e-003	224.8804
Enclosed Parking with Elevator	1.08649e+006	310.9169	0.0143	2.9600e-003	312.1337
High Turnover (Sit Down Restaurant)	294126	84.1690	3.8700e-003	8.0000e-004	84.4984
Total		**619.0897**	**0.0285**	**5.8900e-003**	**621.5125**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	687281	196.6772	9.0400e-003	1.8700e-003	197.4469
Enclosed Parking with Elevator	780127	223.2466	0.0103	2.1200e-003	224.1203
High Turnover (Sit Down Restaurant)	259192	74.1723	3.4100e-003	7.1000e-004	74.4626
Total		**494.0961**	**0.0227**	**4.7000e-003**	**496.0298**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	1.6767	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Unmitigated	1.7349	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098

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	0.2611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4037					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	0.0701	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Total	**1.7350**	**0.0265**	**2.2919**	**1.2000e-004**		**0.0126**	**0.0126**		**0.0126**	**0.0126**	**0.0000**	**3.7330**	**3.7330**	**3.6600e-003**	**0.0000**	**3.8098**

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	0.2029					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4037					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	0.0701	0.0265	2.2919	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7330	3.7330	3.6600e-003	0.0000	3.8098
Total	**1.6767**	**0.0265**	**2.2919**	**1.2000e-004**		**0.0126**	**0.0126**		**0.0126**	**0.0126**	**0.0000**	**3.7330**	**3.7330**	**3.6600e-003**	**0.0000**	**3.8098**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	81.9804	0.4285	0.0108	94.3134
Unmitigated	95.1638	0.5353	0.0134	110.5596

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	14.399 / 9.07766	87.0823	0.4730	0.0119	100.6926
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.90316 / 0.121478	8.0815	0.0624	1.5400e-003	9.8670
Total		**95.1638**	**0.5354**	**0.0134**	**110.5596**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	11.5192 / 9.07766	75.4380	0.3786	9.5300e-003	86.3430
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.52253 / 0.121478	6.5425	0.0499	1.2300e-003	7.9704
Total		**81.9804**	**0.4285**	**0.0108**	**94.3134**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	35.7812	2.1146	0.0000	80.1880
Unmitigated	35.7812	2.1146	0.0000	80.1880

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	101.66	20.6361	1.2196	0.0000	46.2467
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	74.61	15.1452	0.8951	0.0000	33.9413
Total		**35.7812**	**2.1146**	**0.0000**	**80.1880**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	101.66	20.6361	1.2196	0.0000	46.2467
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	74.61	15.1452	0.8951	0.0000	33.9413
Total		**35.7812**	**2.1146**	**0.0000**	**80.1880**

9.0 Operational Offroad

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

10.0 Vegetation

Approved Shoreline Gateway East Tower Project

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	403.00	Space	0.00	161,200.00	0
High Turnover (Sit Down Restaurant)	6.27	1000sqft	0.00	6,270.00	0
Apartments High Rise	221.00	Dwelling Unit	0.60	221,000.00	632

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Ttotal lot acreage for all uses = 0. estimated from site plans

Construction Phase - Based on construction details

Off-road Equipment - Bore/drill Rig added to account for pile driving during the grading and excavation phase

Trips and VMT - Applicant details - 14 CY trucks

Grading - Total lot acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1114 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA

Woodstoves - Based on site plans

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assummed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only accounts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68

tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00
tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	187.85	0.00
tblFireplaces	NumberNoFireplace	22.10	0.00
tblFireplaces	NumberWood	11.05	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LotAcreage	3.63	0.00
tblLandUse	LotAcreage	0.14	0.00
tblLandUse	LotAcreage	3.56	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.26
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	11.05	0.00
tblWoodstoves	NumberNoncatalytic	11.05	0.00

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	2.5215	25.9358	26.2669	0.0586	2.8785	0.9653	3.8186	0.7697	0.9126	1.6695	0.0000	5,769.6361	5,769.6361	0.4919	0.0000	5,779.9656
2018	17.0588	17.8399	28.8042	0.0643	3.3927	0.9406	4.3333	0.9060	0.8775	1.7835	0.0000	5,527.2317	5,527.2317	0.5330	0.0000	5,538.4257
2019	17.6830	23.8933	35.1596	0.0778	3.5939	1.2514	4.8453	0.9594	1.1652	2.1246	0.0000	6,602.9184	6,602.9184	0.8261	0.0000	6,620.2659
Total	**37.2634**	**67.6691**	**90.2307**	**0.2007**	**9.8651**	**3.1573**	**12.9972**	**2.6350**	**2.9553**	**5.5776**	**0.0000**	**17,899.7862**	**17,899.7862**	**1.8510**	**0.0000**	**17,938.6571**

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					
2017	2.5215	25.9358	26.2669	0.0586	5.3365	0.9653	6.2766	1.3730	0.9126	2.2379	0.0000	5,769.6361	5,769.6361	0.4919	0.0000	5,779.9656
2018	17.0588	17.8399	28.8042	0.0643	6.2976	0.9406	7.2382	1.6190	0.8775	2.4966	0.0000	5,527.2317	5,527.2317	0.5330	0.0000	5,538.4257
2019	17.6830	23.8933	35.1596	0.0778	6.6738	1.2514	7.9251	1.7153	1.1652	2.8805	0.0000	6,602.9184	6,602.9184	0.8261	0.0000	6,620.2659
Total	**37.2634**	**67.6691**	**90.2307**	**0.2007**	**18.3079**	**3.1573**	**21.4399**	**4.7073**	**2.9553**	**7.6150**	**0.0000**	**17,899.7862**	**17,899.7862**	**1.8510**	**0.0000**	**17,938.6571**

	ROG	NOx	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**	**-85.58**	**0.00**	**-64.96**	**-78.64**	**0.00**	**-36.53**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	9.6833	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Energy	0.1079	0.9460	0.5652	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,177.5682	1,177.5682	0.0226	0.0216	1,184.7347
Mobile	7.0772	17.0615	72.5587	0.2182	26.8773	0.2849	27.1622	6.9121	0.2628	7.1749		16,845.4907	16,845.4907	0.5883		16,857.8441
Total	**16.8684**	**18.2195**	**91.4593**	**0.2250**	**26.8773**	**0.4603**	**27.3375**	**6.9121**	**0.4381**	**7.3502**	**0.0000**	**18,055.9785**	**18,055.9785**	**0.6431**	**0.0216**	**18,076.1758**

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	9.3643	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Energy	0.0925	0.8125	0.5005	5.0400e-003		0.0639	0.0639		0.0639	0.0639		1,008.6606	1,008.6606	0.0193	0.0185	1,014.7992
Mobile	6.6849	14.3186	62.0633	0.1763	21.5444	0.2326	21.7770	5.5406	0.2146	5.7552		13,610.8526	13,610.8526	0.4826		13,620.9866
Total	**16.1416**	**15.3431**	**80.8992**	**0.1823**	**21.5444**	**0.3972**	**21.9416**	**5.5406**	**0.3792**	**5.9198**	**0.0000**	**14,652.4329**	**14,652.4329**	**0.5342**	**0.0185**	**14,669.3827**

	ROG	NOx	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	**4.31**	**15.79**	**11.55**	**19.00**	**19.84**	**13.69**	**19.74**	**19.84**	**13.45**	**19.46**	**0.00**	**18.85**	**18.85**	**16.94**	**14.36**	**18.85**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 447,525; Residential Outdoor: 149,175; Non-Residential Indoor: 251,205; Non-Residential Outdoor: 83,735 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1		205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	229.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	46.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8562	0.0000	0.8562	0.4291	0.0000	0.4291			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.8131	1,183.8131	0.2333		1,188.7118
Total	**1.2049**	**10.4761**	**8.5825**	**0.0120**	**0.8562**	**0.7266**	**1.5827**	**0.4291**	**0.6930**	**1.1221**		**1,183.8131**	**1,183.8131**	**0.2333**		**1,188.7118**

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	0.9881	15.3986	11.3158	0.0447	1.0563	0.2376	1.2939	0.2893	0.2185	0.5078		4,437.0955	4,437.0955	0.0317		4,437.7609
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	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.7275	148.7275	7.3200e-003		148.8811
Total	**1.0367**	**15.4598**	**12.0789**	**0.0466**	**1.2016**	**0.2387**	**1.4404**	**0.3278**	**0.2196**	**0.5474**		**4,585.8230**	**4,585.8230**	**0.0390**		**4,586.6420**

3.2 Grading - 2017

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					0.5479	0.0000	0.5479	0.2746	0.0000	0.2746			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.8131	1,183.8131	0.2333		1,188.7118
Total	**1.2049**	**10.4761**	**8.5825**	**0.0120**	**0.5479**	**0.7266**	**1.2745**	**0.2746**	**0.6930**	**0.9676**	**0.0000**	**1,183.8131**	**1,183.8131**	**0.2333**		**1,188.7118**

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	0.9881	15.3986	11.3158	0.0447	1.8579	0.2376	2.0955	0.4860	0.2185	0.7046		4,437.0955	4,437.0955	0.0317		4,437.7609
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	0.0487	0.0611	0.7632	1.8400e-003	0.2716	1.1700e-003	0.2728	0.0695	1.0800e-003	0.0706		148.7275	148.7275	7.3200e-003		148.8811
Total	**1.0367**	**15.4598**	**12.0789**	**0.0466**	**2.1295**	**0.2387**	**2.3683**	**0.5556**	**0.2196**	**0.7752**		**4,585.8230**	**4,585.8230**	**0.0390**		**4,586.6420**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**		**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.3905	4.0329	4.7843	0.0111	0.3188	0.0642	0.3830	0.0908	0.0590	0.1498		1,094.8025	1,094.8025	7.7200e-003		1,094.9647
Worker	0.8570	1.0767	13.4431	0.0324	2.5597	0.0206	2.5803	0.6788	0.0190	0.6978		2,619.8918	2,619.8918	0.1289		2,622.5983
Total	**1.2476**	**5.1096**	**18.2274**	**0.0435**	**2.8785**	**0.0848**	**2.9633**	**0.7697**	**0.0780**	**0.8477**		**3,714.6943**	**3,714.6943**	**0.1366**		**3,717.5629**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**	**0.0000**	**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.3905	4.0329	4.7843	0.0111	0.5515	0.0642	0.6156	0.1479	0.0590	0.2069		1,094.8025	1,094.8025	7.7200e-003		1,094.9647
Worker	0.8570	1.0767	13.4431	0.0324	4.7850	0.0206	4.8056	1.2251	0.0190	1.2440		2,619.8918	2,619.8918	0.1289		2,622.5983
Total	**1.2476**	**5.1096**	**18.2274**	**0.0435**	**5.3364**	**0.0848**	**5.4212**	**1.3730**	**0.0780**	**1.4510**		**3,714.6943**	**3,714.6943**	**0.1366**		**3,717.5629**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491		1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**		**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.3663	3.7034	4.5582	0.0111	0.3188	0.0605	0.3793	0.0908	0.0556	0.1465		1,076.4436	1,076.4436	7.6700e-003		1,076.6048
Worker	0.7727	0.9768	12.2144	0.0324	2.5597	0.0200	2.5797	0.6788	0.0186	0.6974		2,522.4065	2,522.4065	0.1196		2,524.9186
Total	**1.1390**	**4.6802**	**16.7726**	**0.0435**	**2.8785**	**0.0805**	**2.9591**	**0.7697**	**0.0742**	**0.8438**		**3,598.8502**	**3,598.8502**	**0.1273**		**3,601.5234**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491	0.0000	1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**	**0.0000**	**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.3663	3.7034	4.5582	0.0111	0.5515	0.0605	0.6120	0.1479	0.0556	0.2036		1,076.4436	1,076.4436	7.6700e-003		1,076.6048
Worker	0.7727	0.9768	12.2144	0.0324	4.7850	0.0200	4.8050	1.2251	0.0186	1.2436		2,522.4065	2,522.4065	0.1196		2,524.9186
Total	**1.1390**	**4.6802**	**16.7726**	**0.0435**	**5.3365**	**0.0805**	**5.4170**	**1.3730**	**0.0742**	**1.4472**		**3,598.8502**	**3,598.8502**	**0.1273**		**3,601.5234**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544		1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**		**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.3469	3.4165	4.3869	0.0110	0.3189	0.0574	0.3763	0.0908	0.0528	0.1436		1,055.4682	1,055.4682	7.5300e-003		1,055.6263
Worker	0.7112	0.8959	11.2256	0.0323	2.5597	0.0197	2.5794	0.6788	0.0183	0.6971		2,426.7731	2,426.7731	0.1120		2,429.1246
Total	**1.0581**	**4.3125**	**15.6125**	**0.0434**	**2.8785**	**0.0771**	**2.9556**	**0.7697**	**0.0711**	**0.8407**		**3,482.2413**	**3,482.2413**	**0.1195**		**3,484.7509**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544	0.0000	1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**	**0.0000**	**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.3469	3.4165	4.3869	0.0110	0.5515	0.0574	0.6089	0.1479	0.0528	0.2007		1,055.4682	1,055.4682	7.5300e-003		1,055.6263
Worker	0.7112	0.8959	11.2256	0.0323	4.7850	0.0197	4.8047	1.2251	0.0183	1.2433		2,426.7731	2,426.7731	0.1120		2,429.1246
Total	**1.0581**	**4.3125**	**15.6125**	**0.0434**	**5.3365**	**0.0771**	**5.4136**	**1.3730**	**0.0711**	**1.4440**		**3,482.2413**	**3,482.2413**	**0.1195**		**3,484.7509**

3.4 Architectural Coating - 2018

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**14.6860**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.1552	0.1962	2.4535	6.5100e-003	0.5142	4.0300e-003	0.5182	0.1364	3.7300e-003	0.1401		506.6843	506.6843	0.0240		507.1889
Total	**0.1552**	**0.1962**	**2.4535**	**6.5100e-003**	**0.5142**	**4.0300e-003**	**0.5182**	**0.1364**	**3.7300e-003**	**0.1401**		**506.6843**	**506.6843**	**0.0240**		**507.1889**

3.4 Architectural Coating - 2018

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**14.6860**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.1552	0.1962	2.4535	6.5100e-003	0.9612	4.0300e-003	0.9652	0.2461	3.7300e-003	0.2498		506.6843	506.6843	0.0240		507.1889
Total	**0.1552**	**0.1962**	**2.4535**	**6.5100e-003**	**0.9612**	**4.0300e-003**	**0.9652**	**0.2461**	**3.7300e-003**	**0.2498**		**506.6843**	**506.6843**	**0.0240**		**507.1889**

3.4 Architectural Coating - 2019

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**14.6538**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1429	0.1800	2.2549	6.5000e-003	0.5142	3.9500e-003	0.5181	0.1364	3.6700e-003	0.1400		487.4741	487.4741	0.0225		487.9464
Total	**0.1429**	**0.1800**	**2.2549**	**6.5000e-003**	**0.5142**	**3.9500e-003**	**0.5181**	**0.1364**	**3.6700e-003**	**0.1400**		**487.4741**	**487.4741**	**0.0225**		**487.9464**

3.4 Architectural Coating - 2019

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**14.6538**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1429	0.1800	2.2549	6.5000e-003	0.9612	3.9500e-003	0.9651	0.2461	3.6700e-003	0.2498		487.4741	487.4741	0.0225		487.9464
Total	**0.1429**	**0.1800**	**2.2549**	**6.5000e-003**	**0.9612**	**3.9500e-003**	**0.9651**	**0.2461**	**3.6700e-003**	**0.2498**		**487.4741**	**487.4741**	**0.0225**		**487.9464**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059		1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**		**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0559	0.0704	0.8824	2.5400e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		190.7507	190.7507	8.8000e-003		190.9356
Total	**0.0559**	**0.0704**	**0.8824**	**2.5400e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**190.7507**	**190.7507**	**8.8000e-003**		**190.9356**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059	0.0000	1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**	**0.0000**	**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0559	0.0704	0.8824	2.5400e-003	0.3761	1.5500e-003	0.3777	0.0963	1.4300e-003	0.0977		190.7507	190.7507	8.8000e-003		190.9356
Total	**0.0559**	**0.0704**	**0.8824**	**2.5400e-003**	**0.3761**	**1.5500e-003**	**0.3777**	**0.0963**	**1.4300e-003**	**0.0977**		**190.7507**	**190.7507**	**8.8000e-003**		**190.9356**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.6849	14.3186	62.0633	0.1763	21.5444	0.2326	21.7770	5.5406	0.2146	5.7552		13,610.8526	13,610.8526	0.4826		13,620.9866
Unmitigated	7.0772	17.0615	72.5587	0.2182	26.8773	0.2849	27.1622	6.9121	0.2628	7.1749		16,845.4907	16,845.4907	0.5883		16,857.8441

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,383.46	1,582.36	1341.47	4,804,091	3,850,888
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,041.45	992.98	826.64	1,368,058	1,096,615
Total	2,424.91	2,575.34	2,168.11	6,172,149	4,947,503

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0925	0.8125	0.5005	5.0400e-003		0.0639	0.0639		0.0639	0.0639		1,008.6606	1,008.6606	0.0193	0.0185	1,014.7992
NaturalGas Unmitigated	0.1079	0.9460	0.5652	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,177.5682	1,177.5682	0.0226	0.0216	1,184.7347

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4002.66	0.0432	0.3924	0.3296	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.9018	470.9018	9.0300e-003	8.6300e-003	473.7676
Apartments High Rise	6006.66	0.0648	0.5536	0.2356	3.5300e-003		0.0448	0.0448		0.0448	0.0448		706.6665	706.6665	0.0135	0.0130	710.9671
Total		**0.1080**	**0.9460**	**0.5652**	**5.8800e-003**		**0.0746**	**0.0746**		**0.0746**	**0.0746**		**1,177.5682**	**1,177.5682**	**0.0226**	**0.0216**	**1,184.7347**

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					
High Turnover (Sit Down Restaurant)	3.80842	0.0411	0.3734	0.3136	2.2400e-003		0.0284	0.0284		0.0284	0.0284		448.0499	448.0499	8.5900e-003	8.2100e-003	450.7766
Apartments High Rise	4.76519	0.0514	0.4392	0.1869	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.6108	560.6108	0.0108	0.0103	564.0225
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
Total		**0.0925**	**0.8125**	**0.5005**	**5.0400e-003**		**0.0639**	**0.0639**		**0.0639**	**0.0639**		**1,008.6606**	**1,008.6606**	**0.0193**	**0.0185**	**1,014.7992**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.3643	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Unmitigated	9.6833	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6917					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	0.5610	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007		32.9196	32.9196	0.0323		33.5969
Total	**9.6833**	**0.2120**	**18.3354**	**9.7000e-004**		**0.1007**	**0.1007**		**0.1007**	**0.1007**	**0.0000**	**32.9196**	**32.9196**	**0.0323**	**0.0000**	**33.5969**

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	1.1116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6917					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	0.5610	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007		32.9196	32.9196	0.0323		33.5969
Total	**9.3643**	**0.2120**	**18.3354**	**9.7000e-004**		**0.1007**	**0.1007**		**0.1007**	**0.1007**	**0.0000**	**32.9196**	**32.9196**	**0.0323**	**0.0000**	**33.5969**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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 Vegetation

Approved Shoreline Gateway East Tower Project

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	403.00	Space	0.00	161,200.00	0
High Turnover (Sit Down Restaurant)	6.27	1000sqft	0.00	6,270.00	0
Apartments High Rise	221.00	Dwelling Unit	0.60	221,000.00	632

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Ttotal lot acreage for all uses = 0. estimated from site plans

Construction Phase - Based on construction details

Off-road Equipment - Bore/drill Rig added to account for pile driving during the grading and excavation phase

Trips and VMT - Applicant details - 14 CY trucks

Grading - Total lot acerage = 0.6 estimated from site plans

Architectural Coating - Assumed compliance with SCAQMD Rule 1114 and 2006 EIR MM AQ-4

Vehicle Trips - Includes 5% reduction from non-auto trip adjustment in Draft TIA

Woodstoves - Based on site plans

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403 and 2006 EIR MM AQ-1. SCAQMD "PM2.5 Working Group" MM resources

Mobile Land Use Mitigation - Project is TOD and infill. See PD.

Area Mitigation - Assummed compliance with SCAQMD Rule 1113

Energy Mitigation - CalEEMod only accounts for T24 2008, compliance with T24 2013 results in a 25% improvement, CEC 2013 Building Energy Efficiency Standards FAQ. Project includes energy efficient appliances and LEDs.

Water Mitigation - Project includes low flow plumbing fixtures.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68

tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	5.00	282.00
tblConstructionPhase	NumDays	100.00	566.00
tblConstructionPhase	NumDays	2.00	86.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	PhaseEndDate	7/30/2020	7/2/2019
tblConstructionPhase	PhaseEndDate	8/27/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	7/3/2019	6/2/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	5/8/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	187.85	0.00
tblFireplaces	NumberNoFireplace	22.10	0.00
tblFireplaces	NumberWood	11.05	0.00
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	73,000.00
tblLandUse	LotAcreage	3.63	0.00
tblLandUse	LotAcreage	0.14	0.00
tblLandUse	LotAcreage	3.56	0.60
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	9,125.00	5,214.00
tblVehicleTrips	WD_TR	6.59	6.26
tblVehicleTrips	WD_TR	127.15	166.10
tblWoodstoves	NumberCatalytic	11.05	0.00
tblWoodstoves	NumberNoncatalytic	11.05	0.00

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	2.5747	26.4983	26.1842	0.0584	2.8785	0.9659	3.8192	0.7697	0.9131	1.6700	0.0000	5,749.8325	5,749.8325	0.4921	0.0000	5,760.1670
2018	17.1076	18.0442	28.5605	0.0618	3.3927	0.9412	4.3339	0.9060	0.8781	1.7841	0.0000	5,329.2383	5,329.2383	0.5333	0.0000	5,340.4374
2019	17.7282	24.0857	34.8936	0.0751	3.5939	1.2519	4.8458	0.9594	1.1657	2.1250	0.0000	6,399.8522	6,399.8522	0.8263	0.0000	6,417.2050
Total	**37.4104**	**68.6282**	**89.6382**	**0.1952**	**9.8651**	**3.1589**	**12.9989**	**2.6350**	**2.9568**	**5.5791**	**0.0000**	**17,478.9230**	**17,478.9230**	**1.8517**	**0.0000**	**17,517.8095**

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					
2017	2.5747	26.4983	26.1842	0.0584	5.3365	0.9659	6.2772	1.3730	0.9131	2.2385	0.0000	5,749.8325	5,749.8325	0.4921	0.0000	5,760.1670
2018	17.1076	18.0442	28.5605	0.0618	6.2976	0.9412	7.2388	1.6190	0.8781	2.4971	0.0000	5,329.2383	5,329.2383	0.5333	0.0000	5,340.4374
2019	17.7282	24.0857	34.8936	0.0751	6.6738	1.2519	7.9256	1.7153	1.1657	2.8810	0.0000	6,399.8522	6,399.8522	0.8263	0.0000	6,417.2050
Total	**37.4104**	**68.6282**	**89.6382**	**0.1952**	**18.3079**	**3.1589**	**21.4416**	**4.7073**	**2.9568**	**7.6166**	**0.0000**	**17,478.9230**	**17,478.9230**	**1.8517**	**0.0000**	**17,517.8095**

	ROG	NOx	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**	**-85.58**	**0.00**	**-64.95**	**-78.64**	**0.00**	**-36.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	9.6833	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Energy	0.1079	0.9460	0.5652	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,177.5682	1,177.5682	0.0226	0.0216	1,184.7347
Mobile	7.3152	17.8951	72.8471	0.2072	26.8773	0.2861	27.1633	6.9121	0.2639	7.1759		16,043.4564	16,043.4564	0.5891		16,055.8268
Total	**17.1064**	**19.0531**	**91.7478**	**0.2141**	**26.8773**	**0.4614**	**27.3386**	**6.9121**	**0.4392**	**7.3512**	**0.0000**	**17,253.9443**	**17,253.9443**	**0.6439**	**0.0216**	**17,274.1584**

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	9.3643	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Energy	0.0925	0.8125	0.5005	5.0400e-003		0.0639	0.0639		0.0639	0.0639		1,008.6606	1,008.6606	0.0193	0.0185	1,014.7992
Mobile	6.9370	14.9915	63.4634	0.1675	21.5444	0.2338	21.7782	5.5406	0.2156	5.7562		12,963.4257	12,963.4257	0.4834		12,973.5766
Total	**16.3938**	**16.0160**	**82.2993**	**0.1735**	**21.5444**	**0.3984**	**21.9428**	**5.5406**	**0.3802**	**5.9208**	**0.0000**	**14,005.0059**	**14,005.0059**	**0.5350**	**0.0185**	**14,021.9727**

	ROG	NOx	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	**4.17**	**15.94**	**10.30**	**18.97**	**19.84**	**13.66**	**19.74**	**19.84**	**13.42**	**19.46**	**0.00**	**18.83**	**18.83**	**16.92**	**14.36**	**18.83**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	5/1/2017	5	86	
2	Building Construction	Building Construction	5/2/2017	7/2/2019	5	566	
3	Architectural Coating	Architectural Coating	6/2/2018	7/2/2019	5	282	
4	Paving	Paving	5/8/2019	7/2/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.6

Acres of Paving: 0

Residential Indoor: 447,525; Residential Outdoor: 149,175; Non-Residential Indoor: 251,205; Non-Residential Outdoor: 83,735 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1		205	0.50
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	0.00	5,214.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	229.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	46.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8562	0.0000	0.8562	0.4291	0.0000	0.4291			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.8131	1,183.8131	0.2333		1,188.7118
Total	**1.2049**	**10.4761**	**8.5825**	**0.0120**	**0.8562**	**0.7266**	**1.5827**	**0.4291**	**0.6930**	**1.1221**		**1,183.8131**	**1,183.8131**	**0.2333**		**1,188.7118**

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	1.0394	15.9551	13.0481	0.0446	1.0563	0.2381	1.2944	0.2893	0.2190	0.5083		4,426.5494	4,426.5494	0.0321		4,427.2240
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	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.4700	139.4700	7.3200e-003		139.6236
Total	**1.0890**	**16.0223**	**13.7491**	**0.0464**	**1.2016**	**0.2393**	**1.4409**	**0.3278**	**0.2201**	**0.5479**		**4,566.0193**	**4,566.0193**	**0.0394**		**4,566.8476**

3.2 Grading - 2017

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					0.5479	0.0000	0.5479	0.2746	0.0000	0.2746			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.8131	1,183.8131	0.2333		1,188.7118
Total	**1.2049**	**10.4761**	**8.5825**	**0.0120**	**0.5479**	**0.7266**	**1.2745**	**0.2746**	**0.6930**	**0.9676**	**0.0000**	**1,183.8131**	**1,183.8131**	**0.2333**		**1,188.7118**

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	1.0394	15.9551	13.0481	0.0446	1.8579	0.2381	2.0960	0.4860	0.2190	0.7050		4,426.5494	4,426.5494	0.0321		4,427.2240
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	0.0496	0.0671	0.7010	1.7200e-003	0.2716	1.1700e-003	0.2728	0.0695	1.0800e-003	0.0706		139.4700	139.4700	7.3200e-003		139.6236
Total	**1.0890**	**16.0223**	**13.7491**	**0.0464**	**2.1295**	**0.2393**	**2.3688**	**0.5556**	**0.2201**	**0.7757**		**4,566.0193**	**4,566.0193**	**0.0394**		**4,566.8476**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**		**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.4265	4.1324	5.7965	0.0110	0.3188	0.0648	0.3836	0.0908	0.0596	0.1504		1,085.6057	1,085.6057	7.9600e-003		1,085.7729
Worker	0.8742	1.1824	12.3481	0.0304	2.5597	0.0206	2.5803	0.6788	0.0190	0.6978		2,456.8170	2,456.8170	0.1289		2,459.5236
Total	**1.3007**	**5.3148**	**18.1446**	**0.0414**	**2.8785**	**0.0854**	**2.9639**	**0.7697**	**0.0786**	**0.8483**		**3,542.4228**	**3,542.4228**	**0.1368**		**3,545.2965**

3.3 Building Construction - 2017

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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.5310	1,159.5310	0.3553		1,166.9919
Total	**1.2740**	**12.6738**	**8.0395**	**0.0113**		**0.8553**	**0.8553**		**0.7869**	**0.7869**	**0.0000**	**1,159.5310**	**1,159.5310**	**0.3553**		**1,166.9919**

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	0.4265	4.1324	5.7965	0.0110	0.5515	0.0648	0.6163	0.1479	0.0596	0.2075		1,085.6057	1,085.6057	7.9600e-003		1,085.7729
Worker	0.8742	1.1824	12.3481	0.0304	4.7850	0.0206	4.8056	1.2251	0.0190	1.2440		2,456.8170	2,456.8170	0.1289		2,459.5236
Total	**1.3007**	**5.3148**	**18.1446**	**0.0414**	**5.3364**	**0.0854**	**5.4218**	**1.3730**	**0.0786**	**1.4516**		**3,542.4228**	**3,542.4228**	**0.1368**		**3,545.2965**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491		1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**		**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.3987	3.7929	5.5623	0.0110	0.3188	0.0611	0.3799	0.0908	0.0562	0.1470		1,067.3819	1,067.3819	7.9200e-003		1,067.5483
Worker	0.7863	1.0724	11.1752	0.0304	2.5597	0.0200	2.5797	0.6788	0.0186	0.6974		2,365.0780	2,365.0780	0.1196		2,367.5900
Total	**1.1850**	**4.8652**	**16.7375**	**0.0414**	**2.8785**	**0.0811**	**2.9596**	**0.7697**	**0.0747**	**0.8444**		**3,432.4599**	**3,432.4599**	**0.1275**		**3,435.1383**

3.3 Building Construction - 2018

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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491	0.0000	1,140.2487	1,140.2487	0.3550		1,147.7032
Total	**1.0786**	**10.9578**	**7.7239**	**0.0113**		**0.7055**	**0.7055**		**0.6491**	**0.6491**	**0.0000**	**1,140.2487**	**1,140.2487**	**0.3550**		**1,147.7032**

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	0.3987	3.7929	5.5623	0.0110	0.5515	0.0611	0.6125	0.1479	0.0562	0.2041		1,067.3819	1,067.3819	7.9200e-003		1,067.5483
Worker	0.7863	1.0724	11.1752	0.0304	4.7850	0.0200	4.8050	1.2251	0.0186	1.2436		2,365.0780	2,365.0780	0.1196		2,367.5900
Total	**1.1850**	**4.8652**	**16.7375**	**0.0414**	**5.3365**	**0.0811**	**5.4176**	**1.3730**	**0.0747**	**1.4477**		**3,432.4599**	**3,432.4599**	**0.1275**		**3,435.1383**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544		1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**		**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.3769	3.4971	5.3796	0.0110	0.3189	0.0579	0.3768	0.0908	0.0533	0.1441		1,046.5421	1,046.5421	7.7800e-003		1,046.7054
Worker	0.7230	0.9833	10.2419	0.0303	2.5597	0.0197	2.5794	0.6788	0.0183	0.6971		2,275.0391	2,275.0391	0.1120		2,277.3906
Total	**1.0999**	**4.4804**	**15.6215**	**0.0412**	**2.8785**	**0.0776**	**2.9562**	**0.7697**	**0.0715**	**0.8412**		**3,321.5812**	**3,321.5812**	**0.1198**		**3,324.0960**

3.3 Building Construction - 2019

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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544	0.0000	1,121.4877	1,121.4877	0.3548		1,128.9391
Total	**0.9521**	**9.7557**	**7.5184**	**0.0113**		**0.6026**	**0.6026**		**0.5544**	**0.5544**	**0.0000**	**1,121.4877**	**1,121.4877**	**0.3548**		**1,128.9391**

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	0.3769	3.4971	5.3796	0.0110	0.5515	0.0579	0.6094	0.1479	0.0533	0.2012		1,046.5421	1,046.5421	7.7800e-003		1,046.7054
Worker	0.7230	0.9833	10.2419	0.0303	4.7850	0.0197	4.8047	1.2251	0.0183	1.2433		2,275.0391	2,275.0391	0.1120		2,277.3906
Total	**1.0999**	**4.4804**	**15.6215**	**0.0412**	**5.3365**	**0.0776**	**5.4141**	**1.3730**	**0.0715**	**1.4445**		**3,321.5812**	**3,321.5812**	**0.1198**		**3,324.0960**

3.4 Architectural Coating - 2018

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**14.6860**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.1579	0.2154	2.2448	6.1000e-003	0.5142	4.0300e-003	0.5182	0.1364	3.7300e-003	0.1401		475.0812	475.0812	0.0240		475.5858
Total	**0.1579**	**0.2154**	**2.2448**	**6.1000e-003**	**0.5142**	**4.0300e-003**	**0.5182**	**0.1364**	**3.7300e-003**	**0.1401**		**475.0812**	**475.0812**	**0.0240**		**475.5858**

3.4 Architectural Coating - 2018

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**14.6860**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

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	0.1579	0.2154	2.2448	6.1000e-003	0.9612	4.0300e-003	0.9652	0.2461	3.7300e-003	0.2498		475.0812	475.0812	0.0240		475.5858
Total	**0.1579**	**0.2154**	**2.2448**	**6.1000e-003**	**0.9612**	**4.0300e-003**	**0.9652**	**0.2461**	**3.7300e-003**	**0.2498**		**475.0812**	**475.0812**	**0.0240**		**475.5858**

3.4 Architectural Coating - 2019

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**14.6538**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1452	0.1975	2.0573	6.0900e-003	0.5142	3.9500e-003	0.5181	0.1364	3.6700e-003	0.1400		456.9948	456.9948	0.0225		457.4671
Total	**0.1452**	**0.1975**	**2.0573**	**6.0900e-003**	**0.5142**	**3.9500e-003**	**0.5181**	**0.1364**	**3.6700e-003**	**0.1400**		**456.9948**	**456.9948**	**0.0225**		**457.4671**

3.4 Architectural Coating - 2019

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	14.3874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**14.6538**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

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	0.1452	0.1975	2.0573	6.0900e-003	0.9612	3.9500e-003	0.9651	0.2461	3.6700e-003	0.2498		456.9948	456.9948	0.0225		457.4671
Total	**0.1452**	**0.1975**	**2.0573**	**6.0900e-003**	**0.9612**	**3.9500e-003**	**0.9651**	**0.2461**	**3.6700e-003**	**0.2498**		**456.9948**	**456.9948**	**0.0225**		**457.4671**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059		1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**		**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0568	0.0773	0.8050	2.3800e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		178.8240	178.8240	8.8000e-003		179.0089
Total	**0.0568**	**0.0773**	**0.8050**	**2.3800e-003**	**0.2012**	**1.5500e-003**	**0.2028**	**0.0534**	**1.4300e-003**	**0.0548**		**178.8240**	**178.8240**	**8.8000e-003**		**179.0089**

3.5 Paving - 2019

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	0.8203	7.7394	7.0501	0.0111		0.4374	0.4374		0.4059	0.4059	0.0000	1,039.5165	1,039.5165	0.2967		1,045.7467
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8203**	**7.7394**	**7.0501**	**0.0111**		**0.4374**	**0.4374**		**0.4059**	**0.4059**	**0.0000**	**1,039.5165**	**1,039.5165**	**0.2967**		**1,045.7467**

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	0.0568	0.0773	0.8050	2.3800e-003	0.3761	1.5500e-003	0.3777	0.0963	1.4300e-003	0.0977		178.8240	178.8240	8.8000e-003		179.0089
Total	**0.0568**	**0.0773**	**0.8050**	**2.3800e-003**	**0.3761**	**1.5500e-003**	**0.3777**	**0.0963**	**1.4300e-003**	**0.0977**		**178.8240**	**178.8240**	**8.8000e-003**		**179.0089**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.9370	14.9915	63.4634	0.1675	21.5444	0.2338	21.7782	5.5406	0.2156	5.7562		12,963.4257	12,963.4257	0.4834		12,973.5766
Unmitigated	7.3152	17.8951	72.8471	0.2072	26.8773	0.2861	27.1633	6.9121	0.2639	7.1759		16,043.4564	16,043.4564	0.5891		16,055.8268

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,383.46	1,582.36	1341.47	4,804,091	3,850,888
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,041.45	992.98	826.64	1,368,058	1,096,615
Total	2,424.91	2,575.34	2,168.11	6,172,149	4,947,503

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments 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
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0925	0.8125	0.5005	5.0400e-003		0.0639	0.0639		0.0639	0.0639		1,008.6606	1,008.6606	0.0193	0.0185	1,014.7992
NaturalGas Unmitigated	0.1079	0.9460	0.5652	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,177.5682	1,177.5682	0.0226	0.0216	1,184.7347

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4002.66	0.0432	0.3924	0.3296	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.9018	470.9018	9.0300e-003	8.6300e-003	473.7676
Apartments High Rise	6006.66	0.0648	0.5536	0.2356	3.5300e-003		0.0448	0.0448		0.0448	0.0448		706.6665	706.6665	0.0135	0.0130	710.9671
Total		**0.1080**	**0.9460**	**0.5652**	**5.8800e-003**		**0.0746**	**0.0746**		**0.0746**	**0.0746**		**1,177.5682**	**1,177.5682**	**0.0226**	**0.0216**	**1,184.7347**

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					
High Turnover (Sit Down Restaurant)	3.80842	0.0411	0.3734	0.3136	2.2400e-003		0.0284	0.0284		0.0284	0.0284		448.0499	448.0499	8.5900e-003	8.2100e-003	450.7766
Apartments High Rise	4.76519	0.0514	0.4392	0.1869	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.6108	560.6108	0.0108	0.0103	564.0225
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
Total		**0.0925**	**0.8125**	**0.5005**	**5.0400e-003**		**0.0639**	**0.0639**		**0.0639**	**0.0639**		**1,008.6606**	**1,008.6606**	**0.0193**	**0.0185**	**1,014.7992**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.3643	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969
Unmitigated	9.6833	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007	0.0000	32.9196	32.9196	0.0323	0.0000	33.5969

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6917					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	0.5610	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007		32.9196	32.9196	0.0323		33.5969
Total	**9.6833**	**0.2120**	**18.3354**	**9.7000e-004**		**0.1007**	**0.1007**		**0.1007**	**0.1007**	**0.0000**	**32.9196**	**32.9196**	**0.0323**	**0.0000**	**33.5969**

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	1.1116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6917					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	0.5610	0.2120	18.3354	9.7000e-004		0.1007	0.1007		0.1007	0.1007		32.9196	32.9196	0.0323		33.5969
Total	**9.3643**	**0.2120**	**18.3354**	**9.7000e-004**		**0.1007**	**0.1007**		**0.1007**	**0.1007**	**0.0000**	**32.9196**	**32.9196**	**0.0323**	**0.0000**	**33.5969**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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 Vegetation

Approved Shoreline Gateway East Tower Project

South Coast Air Basin, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Bore/Drill Rigs	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	4.00000E-002	2.71650E-001	2.60600E-001	4.20000E-004	1.98000E-002	1.98000E-002	0.00000E+000	3.60009E+001	3.60009E+001	3.24000E-003	0.00000E+000	3.60690E+001
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	3.53000E-003	2.20900E-002	1.85000E-002	4.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.74966E+000	2.74966E+000	2.90000E-004	0.00000E+000	2.75565E+000
Concrete/Industrial Saws	2.49800E-002	1.83230E-001	1.61210E-001	2.70000E-004	1.31800E-002	1.31800E-002	0.00000E+000	2.31192E+001	2.31192E+001	2.03000E-003	0.00000E+000	2.31619E+001
Cranes	8.07700E-002	9.62540E-001	3.54360E-001	8.00000E-004	4.19200E-002	3.85700E-002	0.00000E+000	7.30067E+001	7.30067E+001	2.27000E-002	0.00000E+000	7.34834E+001
Forklifts	7.81100E-002	6.86880E-001	5.17440E-001	6.50000E-004	5.51300E-002	5.07200E-002	0.00000E+000	5.92958E+001	5.92958E+001	1.84400E-002	0.00000E+000	5.96830E+001
Pavers	4.84000E-003	5.25800E-002	4.88300E-002	8.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	7.10589E+000	7.10589E+000	2.25000E-003	0.00000E+000	7.15310E+000
Rollers	3.96000E-003	3.92200E-002	3.33800E-002	5.00000E-005	2.58000E-003	2.37000E-003	0.00000E+000	4.12267E+000	4.12267E+000	1.30000E-003	0.00000E+000	4.15006E+000
Rubber Tired Dozers	6.40000E-003	7.09100E-002	5.34300E-002	5.00000E-005	3.29000E-003	3.03000E-003	0.00000E+000	4.43731E+000	4.43731E+000	1.36000E-003	0.00000E+000	4.46586E+000
Tractors/Loaders/Backhoes	1.79580E-001	1.75942E+000	1.52276E+000	2.01000E-003	1.26390E-001	1.16280E-001	0.00000E+000	1.84350E+002	1.84350E+002	5.72600E-002	0.00000E+000	1.85552E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	4.00000E-002	2.71650E-001	2.60600E-001	4.20000E-004	1.98000E-002	1.98000E-002	0.00000E+000	3.60009E+001	3.60009E+001	3.24000E-003	0.00000E+000	3.60690E+001
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	3.53000E-003	2.20900E-002	1.85000E-002	4.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.74965E+000	2.74965E+000	2.90000E-004	0.00000E+000	2.75565E+000
Concrete/Industrial Saws	2.49800E-002	1.83230E-001	1.61210E-001	2.70000E-004	1.31800E-002	1.31800E-002	0.00000E+000	2.31192E+001	2.31192E+001	2.03000E-003	0.00000E+000	2.31619E+001
Cranes	8.07700E-002	9.62540E-001	3.54360E-001	8.00000E-004	4.19200E-002	3.85700E-002	0.00000E+000	7.30066E+001	7.30066E+001	2.27000E-002	0.00000E+000	7.34833E+001
Forklifts	7.81100E-002	6.86880E-001	5.17440E-001	6.50000E-004	5.51300E-002	5.07200E-002	0.00000E+000	5.92957E+001	5.92957E+001	1.84400E-002	0.00000E+000	5.96829E+001
Pavers	4.84000E-003	5.25800E-002	4.88300E-002	8.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	7.10588E+000	7.10588E+000	2.25000E-003	0.00000E+000	7.15309E+000
Rollers	3.96000E-003	3.92200E-002	3.33800E-002	5.00000E-005	2.58000E-003	2.37000E-003	0.00000E+000	4.12267E+000	4.12267E+000	1.30000E-003	0.00000E+000	4.15006E+000
Rubber Tired Dozers	6.40000E-003	7.09100E-002	5.34300E-002	5.00000E-005	3.29000E-003	3.03000E-003	0.00000E+000	4.43730E+000	4.43730E+000	1.36000E-003	0.00000E+000	4.46586E+000
Tractors/Loaders/Backhoes	1.79580E-001	1.75942E+000	1.52276E+000	2.01000E-003	1.26390E-001	1.16280E-001	0.00000E+000	1.84349E+002	1.84349E+002	5.72600E-002	0.00000E+000	1.85552E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11108E-006	1.11108E-006	0.00000E+000	0.00000E+000	1.10898E-006
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.63681E-006	3.63681E-006	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29762E-006	1.29762E-006	0.00000E+000	0.00000E+000	1.29523E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23276E-006	1.23276E-006	0.00000E+000	0.00000E+000	1.08868E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18052E-006	1.18052E-006	0.00000E+000	0.00000E+000	1.17286E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.40728E-006	1.40728E-006	0.00000E+000	0.00000E+000	1.39800E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.25362E-006	2.25362E-006	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19338E-006	1.19338E-006	0.00000E+000	0.00000E+000	1.18565E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	136.00	PM2.5 Reduction	136.00	Frequency (per day)	6.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	50.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.07	0.02	0.13	0.03	-0.87	-0.80
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.80	0.21	1.48	0.38	-0.85	-0.78
Grading	Fugitive Dust	0.04	0.02	0.02	0.01	0.36	0.36
Grading	Roads	0.05	0.01	0.09	0.02	-0.77	-0.69
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.01	0.00	-0.87	-0.80

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.19	20.19	20.20	20.20	20.19
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	5.45	16.21	13.09	19.18	18.29	18.31	0.00	19.18	19.18	17.92	0.00	19.18
Natural Gas	14.31	14.11	11.45	14.02	14.33	14.33	0.00	14.34	14.34	14.21	14.29	14.34
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	13.50	13.85	19.96	19.70	14.69
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	3.32	368.00	0.00	
Yes	Land Use	Increase Diversity	0.10	0.32		
No	Land Use	Improve Walkability Design	0.00	0.00		
Yes	Land Use	Improve Destination Accessibility	0.20	0.00		
Yes	Land Use	Increase Transit Accessibility	0.08	0.60		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.20			
No	Neighborhood Enhancements	Improve Pedestrian Network	0.00			
No	Neighborhood Enhancements	Provide Traffic Calming Measures	0.00			
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
Yes	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			

		Land Use and Site Enhancement Subtotal	0.20			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge		0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.20			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	100.00
Yes	Use Low VOC Paint (Non-residential Interior)	150.00
Yes	Use Low VOC Paint (Non-residential Exterior)	150.00
No	% Electric Lawnmower	0.00

No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	25.00	
Yes	Install High Efficiency Lighting	35.00	
No	On-site Renewable	0.00	0.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher	Apartments High Rise	30.00
DishWasher	Apartments High Rise	15.00
Fan		50.00
Refrigerator	Apartments High Rise	15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	

Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	