

APPENDIX B

Air Quality Technical Study

Air Quality and Greenhouse Gas Study
for the
7617 Santa Monica Boulevard Project

Prepared for:

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Table of Contents

Section	Page
Executive Summary.....	1
Project Description.....	2
Regulatory Setting.....	3
Environmental Setting	10
Methodology.....	16
Project impacts	19
Conclusions	31

Appendix

- A CalEEMod Air Quality and Greenhouse Gas Emissions Files

EXECUTIVE SUMMARY

This Air Quality and Greenhouse Gas Study addresses the potential impact of the 7617 Santa Monica Boulevard Project on generating air quality and GHG emissions that may impact the environment; conflict with an applicable air quality plan; violate an air quality standard or threshold; result in a cumulatively net increase of criteria pollutant emissions; expose sensitive receptors to substantial pollutant concentrations; or create objectionable odors affecting a substantial number of people.

The proposed Project involves the demolition of an approximately 4,910 square feet existing car wash and all associated structures, for the construction of a new 4-story, mixed-use building consisting of residential and commercial uses.

The findings of this analysis are as follows:

- The Project would be consistent with air quality policies set forth by the South Coast Air Quality Management (SCAQMD), City of West Hollywood General Plan, City of West Hollywood Climate Action Plan, and the Assembly Bill (AB) 32 Scoping Plan.
- The increase in emissions from construction and operation of the Project would not exceed regional daily emission thresholds set forth by the SCAQMD. Thus, the Project would not result in a regional violation of applicable air quality standards or jeopardize the timely attainment of such standards in the South Coast Air Basin (Basin).
- The increase in on-site emissions from construction and operation of the Project would not exceed the localized significance thresholds set forth by the SCAQMD. Thus, the Project would not result in a localized violation of applicable air quality standards or expose off-site receptors to substantial levels of regulated air contaminants.
- Operation of the Project would not employ toxic air contaminant (TAC)-emitting processes. No substantial pollutant concentration would be generated.
- Project construction and operation would not result in significant levels of odors.
- The Project would not result in cumulative air quality impacts during construction and operation of the Project.
- The Project's GHG emissions resulting from construction, motor vehicles, energy (i.e., electricity, natural gas), water conveyance, and waste sources would not generate GHG emissions, either directly or indirectly, that would have a significant on the environment.
- The Project would be consistent with state-applicable plans, policies, and regulations adopted for the purpose of reducing GHG emissions.

PROJECT DESCRIPTION

The Project is located in the City of West Hollywood (“City”) and in an area generally bounded by the multifamily residential buildings to the north, Santa Monica Boulevard to the south; commercial buildings to the east; and the Los Angeles County Fire Department (LAFD) Station 8 to the west. More specifically, the Project is located along the north side of Santa Monica Boulevard between N. Curson Avenue and N. Spaulding Avenue within the City characterized by various commercial and residential uses (“Project site”).

The proposed Project involves the demolition of an approximately 4,910 square foot existing car wash and all associated structures for the construction of a new 4-story, mixed-use building consisting of residential and commercial uses. The proposed 4-story building would also include a 2-level subterranean parking garage. The proposed building would contain 71 residential units (including 6 very low income and 5 moderate-income affordable housing units) and approximately 9,240 square feet of ground-floor commercial retail and restaurant uses. The proposed mixed-use building would be approximately 45 feet in height to the top of the main roof.

REGULATORY SETTING

Air Quality

Federal

The United States Environmental Protection Agency (USEPA) sets national vehicle and stationary source emission standards; oversees approval of all SIPs; provides research and guidance for air pollution programs; and sets National Ambient Air Quality Standards (NAAQS). The NAAQS for the five criteria air pollutants (CAPs) (ozone, particulate matter PM10 and PM2.5, nitrogen dioxide, carbon monoxide and sulfur dioxide) are shown in **Table 1: Ambient Air Quality Standards** and were identified from provisions of the 1970 Clean Air Act (CAA). The sections of the CAA that are most applicable to the Project include Title I, Nonattainment Provisions, and Title II, Mobile Source Provisions.

The CAA and the promulgated standards have evolved as a living document over time as research into the effects of air pollution has enhanced regulatory understanding of the associated issues. The 1990 amendments to the CAA identify specific emission reduction goals for areas not meeting the NAAQS. These amendments require both a demonstration of reasonable further progress toward attainment and incorporation of additional sanctions for failure to attain or to meet interim milestones. On the national level, the USEPA designates regions as achieving “attainment” or suffering from “nonattainment” of the NAAQS based on air quality monitoring data. Regions that are designated as being in nonattainment are responsible for devising localized strategies for reducing emissions of CAPs and achieving regional attainment within a predetermined timeframe set by the USEPA.

The NAAQS were further amended in July 1997 to include an 8-hour standard for ozone and to adopt an NAAQS for PM2.5. The NAAQS were amended again in September 2006 to include an established methodology for calculating PM2.5, as well as to revoke the annual PM10 threshold. Additional revisions to the AAQS may be implemented in the future as the science of air quality progresses.

Table 1
Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards		Federal Standards		
		Concentration	Method	Primary	Secondary	Method
Ozone (O ₃)	1 hour	0.09 ppm (180 µg/m ³)	Ultraviolet photometry	—	Same as primary standard	Ultraviolet photometry
	8 hour	0.07 ppm (137 µg/m ³)		0.075 ppm (147 µg/m ³)		
Respirable particulate matter (PM ₁₀)	24 hour	50 µg/m ³	Gravimetric or beta attenuation	150 µg/m ³	Same as primary standard	Inertial separation and gravimetric analysis
	Annual arithmetic mean	20 µg/m ³		—		
Fine particulate matter (PM _{2.5})	24 hours	No separate state standard	Gravimetric or beta attenuation	35 µg/m ³	Same as primary standard	Inertial separation and gravimetric analysis
	Annual arithmetic mean	12 µg/m ³		15 µg/m ³		
Carbon monoxide (CO)	8 hours	9.0 ppm (10 mg/m ³)	Nondispersive infrared photometry (NDIR)	9 ppm (10 mg/m ³)	None	NDIR
	1 hour	20 ppm (23 mg/m ³)		35 ppm (40 mg/m ³)		
Nitrogen dioxide (NO ₂)	Annual arithmetic mean	0.03 ppm (57 µg/m ³)	Gas phase chemiluminescence	0.053 ppm (100 µg/m ³)	Same as primary standard	Gas phase chemiluminescence
	1 hour	0.18 ppm (339 µg/m ³)		0.100 ppm (188 µg/m ³)		
Sulfur dioxide (SO ₂)	1 hour	0.25 ppm (665 µg/m ³)	Ultraviolet Fluorescence	75 ppb (196 µg/m ³)	0.5 ppm (1300 µg/m ³)	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline)
	3 hour	None		None		
	24 hour	0.04 ppm (105 µg/m ³)		0.14 ppm		
	Annual Arithmetic Mean	None		0.030 ppm		

Source: California Air Resources Board website, accessed August 2018, <https://www.arb.ca.gov/research/aaqs/aaqs2.pdf>.

Note: ppm = parts per million.

State

The California Clean Air Act, signed into law in 1988, requires all areas of the state to achieve and maintain the California Ambient Air Quality Standards (CAAQS) by the earliest practicable date. The CARB is responsible for the coordination and administration of both state and federal air pollution control programs within California. In this capacity, CARB conducts research, sets CAAQS, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. The CARB establishes emissions standards for motor vehicles sold in California, consumer products, and various types of commercial equipment. In addition, the CARB sets fuel specifications to further reduce vehicular emissions and determines the CAAQS currently in effect for each of the CAPs, as well as other pollutants recognized by the state. The CAAQS are provided in **Table 1**; it should be noted that the CAAQS are generally more stringent than the NAAQS, reflecting California's diligent efforts toward reducing air pollution and improving air quality.

Regional

South Coast Air Quality Management District

The Air Pollution Control Act of 1947 divided the State of California into air pollution control districts and air quality management districts. SCAQMD, in coordination with the Southern California Association of Governments (SCAG), is responsible for developing, updating, and implementing the Air Quality Management Plan (AQMP) for the Basin. The current applicable AQMP was approved on March 3, 2017 (2016 AQMP), and includes the integrated strategies and measures needed to meet the state and national air quality standards. Furthermore, the 2016 AQMP demonstrates attainment of the national 1-hour and 8-hour ozone standards, as well as the latest 24-hour and annual particulate matter standards. Because the Project is within the jurisdiction of the SCAQMD, compliance with SCAQMD rules and guidelines is required. The SCAQMD is responsible for limiting the amount of emissions that can be generated throughout the Basin by various stationary, area, and mobile sources. The SCAQMD governing board has adopted specific rules and regulations limiting the emissions that can be generated by various uses/activities and identifying specific pollution reduction measures, which must be implemented in association with various uses and activities. These rules regulate not only the emissions of the federal and state criteria pollutants, but also toxic air contaminants (TACs) and acutely hazardous materials. The rules are also subject to ongoing refinement by SCAQMD.

Among the SCAQMD rules applicable to the Project are Rule 402 (Nuisance), Rule 403 (Fugitive Dust), Rule 1113 (Architectural Coatings), and Rule 1403 (Asbestos Emissions from Demolition/Renovation Activities). Rule 402 requires that no discharge takes place from any source of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the

public. Rule 403 requires the use of stringent Best Available Control Measures (BACMs) to minimize PM10 emissions during grading and construction activities. Rule 1113 will require reductions in the volatile organic compound (VOC) content of coatings, with a substantial reduction in the VOC content limit for flat coatings. Compliance with SCAQMD Rule 1403 requires the owner or operator of any demolition or renovation activity to have an asbestos survey performed prior to demolition and to provide notification to the SCAQMD prior to commencing demolition activities. Additional details regarding these rules and other potentially applicable rules are presented below.

Rule 402 (Nuisance). This rule requires that no discharge takes place from any source of air contaminants or other material that causes injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endangers the comfort, repose, health or safety of any such persons or the public, or that causes, or has a natural tendency to cause, injury or damage to business or property.

Rule 403 (Fugitive Dust). This rule requires fugitive dust sources to implement BACMs. BACMs may include application of water or chemical stabilizers to disturbed soils; covering haul vehicles; restricting vehicle speeds on unpaved roads to 15 miles per hour (mph); sweeping loose dirt from paved site access roadways; ceasing construction activity when winds exceed 25 mph; and establishing a permanent ground cover on finished sites. SCAQMD Rule 403 is intended to reduce PM10 emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust.

Rule 1113 (Architectural Coatings). This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

Rule 1403 (Asbestos Emissions from Demolition/Renovation Activities). This rule requires limits on asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials.

Local

City of West Hollywood General Plan

The City's General Plan Infrastructure, Resources, and Conservation chapter was adopted on September 6, 2011.¹ The planning area for the Infrastructure, Resources, and Conservation Element covers the entire City of West Hollywood, which encompasses an area of approximately 1.9 square miles. The Infrastructure, Resources, and Conservation served to aid the West Hollywood region in attaining State

1 City of West Hollywood, *West Hollywood General Plan 2035*, September 6, 2011.

and federal ambient air quality standards at the earliest feasible date while still maintaining economic growth and improving quality of life.

Local governments have the authority and responsibility to reduce air pollution through their police power and land use decision-making authority. Specifically, local governments are responsible for the mitigation of emissions resulting from land use decisions and for the implementation of transportation control measures as outlined in the AQMP.² The AQMP assigns local governments certain responsibilities to assist the Basin in meeting air quality goals and policies. The Conservation Element provides the regulatory framework needed to assist the Basin in meeting the AQMP's goals and policies. Through capital improvement programs, local governments can fund infrastructure that contributes to improved air quality by requiring such improvements as bus turnouts, energy-efficient streetlights, and synchronized traffic signals.

Greenhouse Gas

Sources of Greenhouse Gas Emissions

GHGs are the result of both natural and anthropogenic activities. With respect to anthropogenic activities, motor vehicle travel, air travel, consumption of fossil fuels for power generation, industrial processes, heating and cooling, landfills, agriculture, and wildfire are the primary sources of GHG emissions. Additionally, land use decisions and future development projects pursuant to implementation of a general plan can affect the generation of GHG emissions from multiple sectors, resulting in direct or indirect GHG emissions. For example, electricity consumed in the lighting and heating of buildings is an indirect source of GHG emissions because it requires electricity from power plants, which emits GHG directly into the atmosphere. Conversely, tailpipe emissions from the use of vehicles generate direct GHG emissions.

GHGs are a group of emissions that include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorinated chemicals (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃). CO₂ is the most abundant GHG. As stated above, other GHGs are less abundant but have higher global warming potential than CO₂. Thus, emissions of other GHGs are frequently expressed in the equivalent mass of CO₂; denoted as CO₂e. A general description of these GHGs is provided in **Table 2: Greenhouse Gases**.

2 South Coast Air Quality Management District, *CEQA Air Quality Handbook* (April 2003), p. 2-2.

Table 2
Greenhouse Gases

GHG	General Description
Carbon Dioxide (CO₂)	An odorless, colorless GHG that has both natural and anthropogenic sources. Natural sources include the following: decomposition of dead organic matter; respiration of bacteria plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic (human caused) sources of CO ₂ are burning coal, oil, natural gas, and wood.
Methane (CH₄)	A flammable gas and is the main component of natural gas. When one molecule of CH ₄ is burned in the presence of oxygen, one molecule of CO ₂ and two molecules of water are released. A natural source of CH ₄ is the anaerobic decay of organic matter. Geological deposits, known as natural gas fields, also contain CH ₄ , which is extracted for fuel. Other sources are from landfills, fermentation of manure, and cattle.
Nitrous Oxide (N₂O)	A colorless GHG. High concentrations can cause dizziness, euphoria, and sometimes slight hallucinations. N ₂ O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is used in rocket engines, race cars, and as an aerosol spray propellant.
Hydrofluorocarbons (HFCs)	Chlorofluorocarbons (CFCs) are gases formed synthetically by replacing all hydrogen atoms in CH ₄ or ethane (C ₂ H ₆) with chlorine and/or fluorine atoms. CFCs are non-toxic, non-flammable, insoluble, and chemically unreactive in the troposphere (the level of air at Earth's surface). CFCs were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. Because they destroy stratospheric ozone, the production of CFCs was stopped as required by the Montreal Protocol in 1987. HFCs are synthetic man-made chemicals that are used as substitute for CFCs as refrigerants. HFCs deplete stratospheric ozone, but to a much lesser extent than CFCs.
Perfluorinated Chemicals (PFCs)	PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane and hexafluoroethane. The two main sources of PFCs are primary aluminum production and semi-conduction manufacturing.
Sulfur Hexafluoride (SF₆)	An inorganic, odorless, colorless, non-toxic, and non-flammable gas. SF ₆ is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semi-conductor manufacturing, and as a tracer gas for leak detection.
Nitrogen Trifluoride (NF₃)	An inorganic, non-toxic, odorless, non-flammable gas. NF ₃ is used in the manufacture of semi-conductors, as an oxidizer of high energy fuels, for the preparation of tetrafluoro hydrazine, as an etchant gas in the electronic industry, and as a fluorine source in high power chemical lasers.

GHG**General Description**

Source: T. F. Stocker, et al., eds., Intergovernmental Panel on Climate Change, Summary for Policymakers, in *Climate Change 2013: The Physical Science Basis, Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* (Cambridge University Press: Cambridge, United Kingdom and New York, NY, USA, 2014), doi:10.1017/CBO9781107415324.004.

City of West Hollywood Climate Action Plan

The City of West Hollywood adopted an Climate Action Plan (CAP) in 2011 to guide citywide GHG emissions reductions efforts. The CAP outlines various courses of actions to reduce both municipal and community-wide GHG emissions in accordance with AB reduction targets. The CAP established seven emissions reduction strategies which projects may choose to adhere to, including: community engagement, land use design, mobility, energy and water use, waste reduction, and green space. The land use and community design strategy and the transportation and mobility strategy encourage development in areas to promote transit use, walking and bicycling to improve health and decrease driving. According to the CAP, a project-specific GHG analysis “must identify the specific CAP measures applicable to the project and how the project incorporates the measures.” If the project is not consistent with the CAP measures or if the measures are not otherwise binding, they must be incorporated as mitigation measures applicable to the project.³

3 City of West Hollywood, *City of West Hollywood Climate Action Plan*, September 2011, F

ENVIRONMENTAL SETTING

Topography, Climate, and Meteorology

The Project site is located within the 6,700-square-mile South Coast Air Basin (Basin). As noted, the Basin includes the southern two-thirds of Los Angeles County, all of Orange County, and the western urbanized portions of Riverside and San Bernardino Counties. The Basin is a coastal plain, with connecting broad valleys and low hills that are bounded by the Pacific Ocean to the southwest and by high mountains around the rest of its perimeter. The general region lies in the semipermanent, high-pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light average wind speeds. The usually mild climatological pattern is interrupted occasionally by periods of extremely hot weather, winter storms, or Santa Ana winds.

The dominant land and sea breeze circulation system usually drive winds in the Project region, with on- and off-shore wind patterns. During the day, winds are generally on shore, blowing from sea to land, while at night the winds generally slow and reverse direction, traveling toward the sea. Local canyons and hillsides can also alter wind direction off shore due to a mountain and valley breeze circulation system. Nighttime cold air from the mountains blows into the Basin and then mixes with cool marine air, resulting in more stable atmospheric conditions.

The vertical dispersion of air pollutants in the Basin is hampered by the presence of persistent temperature inversions. High-pressure systems, such as the semipermanent, high-pressure zone in which the Basin is located, are characterized by an upper layer of dry air that warms as it descends, restricting the mobility of cooler, marine-influenced air near the ground surface and resulting in the formation of subsidence inversions. Such inversions restrict the vertical dispersion of air pollutants released into the marine layer and, together with strong sunlight, can produce worst-case conditions for the formation of photochemical smog and oxidants. The Basin-wide occurrence of inversions at 3,500 feet above mean sea level (amsl) or less averages 191 days per year.

The potential for atmospheric pollution in an area depends largely on winds, atmospheric stability, solar radiation, and terrain. The combination of low wind speeds and low inversions produces the greatest concentration of air pollutants. The warm sunny weather in the Basin associated with a persistent high-pressure system is conducive to the formation of ozone and other oxidative pollutants, commonly referred to as smog. The problem is further aggravated by the surrounding mountains, frequent low inversion heights, and stagnant air conditions. All of these factors act together to trap pollutants in the Basin. On days without inversions or on days when winds average more than 15 miles per hour (mph), smog potential is greatly reduced.

Predominant meteorological conditions in the region include light winds and shallow vertical mixing due to low-altitude temperature inversion. Long-term diurnal wind patterns in the general vicinity of the Project site are dominated by higher velocity, on-shore daytime winds of 4 to 12 mph from the southwest. Diurnal winds from the southwest are created by pressure differences between the relatively cold ocean and the unevenly heated land. Nocturnal winds exhibit more directional variability and commonly result in low-velocity, on-shore flow at speeds of 2 to 5 mph from the west and southwest, and less commonly in 2 to 20 mph winds from the northwest and east. Nocturnal winds are created when air along the mountain slopes cools and descends into the lower elevations of the Basin toward the ocean. These diurnal and nocturnal wind patterns play an important role in dispersing air pollutants and moderating the temperatures throughout the Basin and the Project vicinity. Furthermore, the region is known to experience Santa Ana winds, which are strong downslope winds that blow through mountain passes in Southern California and can easily exceed 40 mph. These warm, dry winds can severely exacerbate brush or forest fires, notably under drought conditions, and can happen throughout the year.

Average temperatures in the Project vicinity range from the upper 40s to mid-70s Fahrenheit. The warmest periods tend to be from July to October. Average annual rainfall ranges from 17 or 18 inches, with the majority of precipitation occurring from December through March.⁴ Winter precipitation usually stems of cold fronts associated with the size and strength of the jet stream. Summer rainfall usually consists of periodic and short-term scattered thunderstorms that are formed by an extension of the North American monsoon pattern that dominates over the southwestern United States.

Air Quality

Regional

The City is located within the SCAQMD. The SCAQMD area includes all of Orange and Los Angeles Counties except for the Antelope Valley; the nondesert portion of western San Bernardino County; and the western and Coachella Valley portions of Riverside County. The SCAQMD territory is divided into 38 source receptor areas (SRAs). These SRAs are designated to provide a general representation of the local meteorological, terrain, and air quality conditions within the particular geographical area. The Project site is within SRA 1—Central Los Angeles.⁵ The nearest air-monitoring station SCAQMD operates is located at 1630 N. Main Street, Los Angeles.⁶ **Table 3: Air Quality Monitoring Summary**, summarizes published

4 Western Regional Climate Center, “Historical Climate Information,” <https://wrcc.dri.edu/CLIMATEDATA.html>. Accessed June 2018.

5 SCAQMD, “General Forecast Areas & Air Monitoring Areas,” <http://www.aqmd.gov/docs/default-source/default-document-library/map-of-monitoring-areas.pdf>.

6 SCAQMD, *Site Survey Report for Los Angeles (Central)-North Main Street, AQS ID 060371103* (May 2018), <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-monitoring-network-plan/aaqmp-losangeles.pdf?sfvrsn=6>.

monitoring data from 2015 through 2017, the most recent 3-year period available. The data show that during the past few years, the region has exceeded the federal ozone and PM2.5 standards and the state ozone and PM10 standards.

Both the USEPA and the California Air Resources Board (CARB) designate air basins where ambient air quality standards are exceeded as “nonattainment” areas. If standards are met, the area is designated as an “attainment” area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered “unclassified.” Federal nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. The current attainment designations for the Basin are shown in **Table 4: South Coast Air Basin Attainment Status**. The Basin is currently designated as being in nonattainment at the federal level for ozone, lead, and PM2.5. The Basin is classified nonattainment at the state level for ozone, PM10, and PM2.5.

Local

The estimated operational emissions are based on the existing development within the Project site and are presented in **Table 5: Existing Operational Air Quality Emissions**. The most current CARB-approved, SCAQMD-recommended air quality modeling software, the California Emissions Estimator Model (CalEEMod), was used to estimate existing air quality operation generation.

Greenhouse Gas

Regional

The CARB Statewide inventory of GHGs by scoping plan is shown in **Table 6: California GHG Inventory 2008–2016**. As shown, from 2008 to 2016 California produced 429.40 MMTCO_{2e}, including imported electricity and excluding combustion of international fuels and carbon sinks or storage. As of 2016, the major source of GHGs in California is transportation, contributing to approximately 41 percent of the State’s total GHG emissions. Industrial generation is the second largest source, contributing to approximately 23 percent of the State’s GHG emissions.

Local

The estimated GHG emissions are based on the existing development within the Project site and are presented in **Table 7: Existing Operational GHG Emissions**. The most current CARB-approved, SCAQMD-recommended air quality modeling software, CalEEMod, was used to estimate existing air quality operation generation.

Table 3
Air Quality Monitoring Summary

Air Pollutant	Average Time (Units)	2015	2016	2017
Ozone (O3)	State Max 1 hour (ppm)	0.104	0.103	0.116
	Days > CAAQS threshold (0.09 ppm)	2	2	6
	National Max 8 hour (ppm)	0.074	0.078	0.086
	Days > NAAQS threshold (0.070 ppm)	6	4	14
	State Max 8 hour (ppm)	0.074	0.078	0.086
	Days > CAAQS threshold (0.07 ppm)	6	4	16
Carbon Monoxide (CO)*		—*	—*	—*
Nitrogen dioxide (NO2)	National Max 1 hour (ppm)	0.079	0.065	0.081
	Days > NAAQS threshold (0.100 ppm)	0	0	0
	State Max 1 hour (ppm)	0.079	0.064	0.080
	Days > CAAQS threshold (0.18 ppm)	0	0	0
Sulfur dioxide (SO2)*		—*	—*	—*
Particulate matter (PM10)	Annual Average ($\mu\text{g}/\text{m}^3$)	27.1	25.8	25.7
	24 hours ($\mu\text{g}/\text{m}^3$)	88.5	74.6	96.2
	Days > CAAQS threshold ($50 \mu\text{g}/\text{m}^3$)	30	21	40
	Days > NAAQS threshold ($150 \mu\text{g}/\text{m}^3$)	0	0	0
Fine particulate matter (PM2.5)	National Max ($\mu\text{g}/\text{m}^3$)	56.4	44.3	54.9
	National Annual Average ($\mu\text{g}/\text{m}^3$)	12.3	11.7	12.0
	Days > NAAQS threshold ($35 \mu\text{g}/\text{m}^3$)	7	2	6

Source: California Air Resources Board, "Top 4 Summary," <https://www.arb.ca.gov/adam/topfour/topfour1.php>.

Notes:

CO and SO2 data found at SCAQMD, Historical Data By Year, 2017 has not yet been released.

> = exceeds; CAAQS = California Ambient Air Quality Standard; max = maximum; mean = annual arithmetic mean; $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ND = no data; NAAQS = National Ambient Air Quality Standard; ppm = parts per million.

* Data not available.

Table 4
South Coast Air Basin Attainment Status

Pollutant	State Status	National Status
Ozone (O3)	Nonattainment	Nonattainment
Carbon monoxide (CO)	Attainment	Unclassified/Attainment
Nitrogen dioxide (NO2)	Attainment	Unclassified/Attainment
Sulfur dioxide (SO2)	Attainment	Attainment
Lead (Pb)	Attainment	Nonattainment
Suspended particulate matter (PM10)	Nonattainment	Attainment
Fine particulate matter (PM2.5)	Nonattainment	Nonattainment

Source: California Air Resources Board, "Area Designations Maps/State and National" (last updated October 18, 2017), <http://www.arb.ca.gov/desig/adm/adm.htm>.

Table 5
Existing Operational Air Quality Emissions

Source	VOC	NOx	CO	SOx	PM10	PM2.5
	pounds/day					
Maximum	1	4	9	<1	2	<1

Note: Refer to **Appendix A2 (Existing Winter)** and **Appendix A3 (Existing Winter)** Section 2.2 Overall Operational

Table 6
California GHG Inventory 2008–2016

Main Sector	Emissions (MMTCO ₂ e)								
	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation ^a	178.24	171.45	168.11	164.7	164.38	163.05	164.89	169.38	176.05
Industrial ^b	99.63	97.31	101.12	101.08	101.46	104.27	104.69	102.97	98.76
Electric power	120.43	101.64	90.58	88.30	95.33	89.84	88.37	84.09	68.70
Commercial	17.68	18.64	20.09	20.73	21.11	21.64	21.37	22.17	21.47
Agriculture/Forestry	36.06	33.83	34.64	35.28	36.42	34.93	36.03	34.65	34.35
Residential	30.48	30.21	31.26	32.03	30.04	31.19	26.26	26.93	30.06
Other ^c	0.27	0.26	0.27	0.25	0.24	0.18	0.24	0.17	0.01
Total Emissions	482.78	453.34	446.06	442.38	448.97	445.08	441.85	440.36	429.40

Source: California Air Resources Board, California Greenhouse Gas Emissions for 2006–2016 (July 2018), https://www.arb.ca.gov/cc/inventory/pubs/reports/2000_2016/ghg_inventory_trends_00-16.pdf.

Note: MMTCO₂e = million metric tons of carbon dioxide equivalent.

^a Includes equipment used in construction, mining, oil drilling, industrial, and airport ground operations.

^b Reflects emissions from combustion of natural gas, diesel, and lease fuel plus fugitive emissions.

^c Reflects solvents and other chemicals

Table 7
Existing Operational GHG Emissions

GHG Emission Source	Emissions (MTCO ₂ e/year)
Area	<1
Energy	36
Mobile	322
Waste	5
Water	5
Total	368

Notes:

Refer to **Appendix A1 (Existing Annual)**, Section 2.2, Overall Operational.

MTCO₂e = metric tons of carbon dioxide equivalent.

METHODOLOGY

As previously noted, emissions were estimated for both construction and operation of the proposed Project using the SCAQDM-recommended CalEEMod computer program. CalEEMod is designed to model construction and operational emissions for land use development projects and allows for the input of project-specific information when it is known. The program contains default settings specific to the air district, county, air basin, or State level using approved vehicle emissions factors (EMFAC2014), established methodologies, and the latest survey data. Project-specific information was included where available. Default data were used to supplement where necessary.

The model outputs are based on the more extreme of weather seasons, summer and winter, to account for the largest shifts in temperature, precipitation, and wind patterns. CalEEMod output files consist of Baseline and Regulatory Compliance sections where the Regulatory Compliance section incorporates rules and regulations from CARB and SCAQMD into the model. For construction emissions, the highest values from regulatory-compliant, on-site construction output tables for each phase of construction for each season (winter, summer) located under *2.1 Regulatory Compliance Construction* in the model output sheets are used. For operational values, the highest values from each seasonal output from *2.2 Regulatory Compliance Operation* in the model output sheets are used. Similarly, GHG emissions used the annual output tables using *2.1 Regulatory Compliance Construction* and *2.2 Regulatory Compliance Operation* for GHG construction and operation emissions, respectively.

Construction activities produce atmospheric emissions of air pollutants from various sources, such as on-site heavy-duty construction vehicles; vehicles hauling materials to and from the Project site; and motor vehicles transporting the construction crew. Grading activities produce fugitive dust emissions (PM10 and PM2.5) from soil-disturbing activities, such as excavation for the subterranean parking. Exhaust emissions from construction activities on the Project site would vary daily as construction activity levels change. Short-term emissions of criteria air pollutants (e.g., CO, sulfates [SO_x], PM10, and PM2.5) generated by Project construction and O₃ precursors (e.g., VOC and NO_x) were assessed in accordance with SCAQMD-recommended methods.

The emission calculations assume the use of standard construction practices, such as compliance with SCAQMD Rule 402 (Nuisance) and Rule 403 (Fugitive Dust), which are mandatory for all construction projects. In the CalEEMod model, the emission calculations take into account Rule 402 and Rule 403 by incorporating the following measures:⁷

7 SCAQMD, *CEQA Handbook*, Tables 11-4, page 11-15 and A11-9-A, page A11-77, <http://www.aqmd.gov/docs/default-source/default-document-library/templates/finalreport.pdf>.

- Watering of exposed surfaces three times daily, or application of nontoxic stabilizers to all unpaved parking or staging areas or unpaved road surfaces, which is estimated to reduce fugitive dust emissions from this source (both PM10 and PM2.5);
- Reduction of vehicle speeds to 15 miles per hour on unpaved roads;
- Replacement of ground cover in disturbed areas as quickly as possible; and
- Use of Tier 3 engines for off-road vehicles during construction activities where commercially available.⁸

Operational emissions generated by both stationary and mobile sources would result from normal day-to-day activities of the Project. The consumption of natural gas and landscape maintenance would generate emissions. Mobile emissions would be generated by the motor vehicles traveling to and from the Project site. The analysis of daily operational emissions associated with the Project has been prepared using the data and methodologies identified in SCAQMD's *CEQA Air Quality Handbook* ("Handbook") and current motor vehicle emission factors in CalEEMod. Default trip rates calculated by the CalEEMod software for these land uses were used (as shown in **Appendix A**). The following assumptions were made in the CalEEMod computer program:

Land Uses

- 4,910 square feet of car wash to be removed
- 71 mid-rise apartment units
- 9,240 square feet commercial uses
- 30 surface parking spaces
- 146 spaces in a two-level subterranean parking garage

Construction

Construction would last approximately 30 months starting in October 2010 and would include (1) demolition, which would last approximately 1 month; (2) site preparation, which would last approximately 1 month; (3) grading, which would last approximately 6 months; (4) building construction, which would last approximately 18 months; and (5) paving and architectural coating, which would last approximately 4 months.⁹ Each phase of construction would result in varying levels of intensity and number of construction personnel.

8 California Air Resources Board, tit. 13 Motor Vehicles, div. 3 Air Resources Board, ch. 9, Off-Road Vehicles and Engines Pollution Control Devices, art. 4 Off-Road Compression-Ignition Engines and Equipment.

9 Paving and architectural coating will be taking place approximately at the same time.

Localized Significance Thresholds

The Localized Significance Threshold (LST) Methodology document provides lookup tables of emissions that are based on construction projects of up to 5 acres in size. LST values for a 0.72-acre site were used for this analysis. CalEEMod calculates construction emissions (off-road exhaust and fugitive dust) based on the number of equipment hours and the maximum daily soil disturbance activity possible for each piece of equipment.

LSTs are based on the ambient concentrations of that pollutant within the Project SRA and the distance to the nearest sensitive receptor, which are the multifamily residential units immediately north of the Project site, approximately 80 feet (25 meters). If Project emissions exceed the LST thresholds for NO_x, CO, PM₁₀, and/or PM_{2.5}, then additional dispersion modeling would be conducted.

Data Summary

The Project air emissions are reported in relation to the ambient concentrations of the six primary CAPs (VOC, NO₂, CO, SO₂, PM₁₀, and PM_{2.5}) identified by the SCAQMD. Particulate matter is and represents the primary visibility-reducing particles that would be generated by the Project; therefore, other visibility-reducing particles are not addressed. The Project would also not generate or expose nearby residents to vinyl chloride because the Project would not involve the type of chemical processes that create this pollutant. Moreover, the Project would not expose nearby residents to hydrogen sulfide because it would not be generated in any substantial quantity. In addition, there is no generation of hydrogen sulfide or usage near the Project site.

PROJECT IMPACTS

Air Quality

Air Quality Management Plan

According to SCAQMD Guidelines, to be consistent with the AQMP, a project must conform to the local general plan and must not result in or contribute to an exceedance of the County's projected population growth forecast. A discussion of AQMP consistency would be required to determine the significance of cumulative impacts. The proposed Project would develop a total of 71 dwelling units within the City and would house approximately 111 people by buildout. The SCAQMD's AQMP considers regional population forecasts developed by SCAG. SCAG's most recent population forecast was adopted in April 2016 as part of its *2016–2040 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS)*. The 2016 SCAG growth forecast projects a population in West Hollywood of 34,800 people for 2012 and 41,800 people for 2040.¹⁰ The Project would yield less than one percent of the projected increase and would be consistent with the planned land uses within the City. As such, the growth forecast is also within the population growth parameters considered in the AQMP, which is updated by the SCAQMD to manage air emissions in the City in accordance with local, state, and federal standards. Development of the Project will not obstruct implementation of the AQMP or attainment of state or federal air quality standards. Therefore, the Project would be consistent with the applicable air quality plans.

Air Quality Standards

Construction

The maximum daily emissions during Project construction are listed in **Table 8: Maximum Construction Emissions**. The modeling incorporates standard compliance with SCAQMD rules and regulations, as previously discussed above. The analysis assumes that operation of all construction equipment for a given activity would occur simultaneously and continuously over the day. This would not actually occur, given that most equipment would operate only a fraction of each workday; moreover, many of the activities would not overlap on a daily basis. Therefore, **Table 8** represents a conservative scenario for construction activities. As shown in **Table 8**, emissions associated with construction would not exceed the applicable maximum daily SCAQMD thresholds for criteria pollutants.

10 Southern California Association of Governments, *2016–2040 Regional Transportation Plan/Sustainable Communities Strategy* (April 2016), Appendix: Demographics and Growth Forecast
http://scagrtpsc.net/Documents/2016/final/f2016RTPSCS_DemographicsGrowthForecast.pdf.

Operation

Operational emissions would be generated by both stationary and mobile sources from normal day-to-day activities associated with the Project. Stationary emissions would be generated by the consumption of natural gas for space- and water-heating equipment. Mobile emissions would be generated by motor vehicles traveling to and from the Project site. The estimated emissions are based on development of all the proposed land uses on the Project site. The results presented in **Table 9: Maximum Operational Emissions**, are compared to the SCAQMD-established operational significance thresholds. As shown in **Table 9**, the emissions associated with the proposed Project would not exceed the SCAQMD-recommended operational emission thresholds.

Table 8
Maximum Construction Emissions

Source	VOC	NOx	CO	SOx	PM10	PM2.5
	pounds/day					
Maximum	5	49	15	<1	3	1
SCAQMD threshold	75	100	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No

Note: Refer to Air Quality Modeling Results in **Appendix A5 (Summer)** and **Appendix A6 (Winter)** Section 2.1 Overall Construction.

Table 9
Maximum Operational Emissions

Source	VOC	NOx	CO	SOx	PM10	PM2.5
	pounds/day					
Proposed Maximum	3	6	21	<1	5	<1
Existing Maximum	1	4	9	<1	2	<1
Net Maximum	2	2	12	<1	3	<1
SCAQMD threshold	55	55	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No

Notes: () denotes a net decrease for the Project. Refer to Air Quality Modeling Results in **Appendix A5 (Summer)** and **Appendix A6 (Winter)** Section 2.2 Overall Operational.

Sensitive Receptors

As mentioned previously, the screening criteria provided in the SCAQMD's LST Methodology document were used to determine localized construction and operational emissions thresholds for the Project. The maximum daily localized emissions and significance thresholds are provided in **Table 10: Localized Emissions**. As shown therein, maximum daily on-site emissions during Project construction and operation would not exceed LSTs within SRA 8 for NO_x, CO, PM₁₀, and PM_{2.5} for the multifamily residences to the north.

Table 10
Localized Emissions

Source	NO _x	CO	PM ₁₀	PM _{2.5}
	pounds/day			
Construction				
Total maximum emissions	11	8	1	1
LST threshold	64	577	4	2
Threshold exceeded?	No	No	No	No
Operational				
Area/energy emissions	1	6	<1	<1
<i>Existing area/energy emissions</i>	<1	<1	<1	<1
Net area/energy emissions	1	6	<1	<1
LST threshold	64	577	2	1
Threshold exceeded?	No	No	No	No

Note: Refer to **Appendix A2 (Existing Summer)**, **Appendix A3 (Existing Winter)**, **Appendix A5 (Proposed Summer)**, and **Appendix A6 (Proposed Winter)**, Sections 3.2 through 3.6.

Odors

Potential activities that may emit odors during construction activities includes the use of architectural coatings and solvents and the combustion of diesel fuel in on- and off-road equipment. According to the SCAQMD, while almost any source may emit objectionable odors, some land uses will be more likely to produce odors because of their operation. Land uses that are more likely to produce odors include agriculture, chemical plants, composting operations, dairies, fiberglass molding, landfills, refineries, rendering plants, rail yards, and wastewater treatment plants. The Project does not contain any active manufacturing activities.

Any unforeseen odors generated by the Project will be controlled in accordance with SCAQMD Rule 402 (Nuisance). Failure to comply with Rule 402 could subject the offending facility to possible fines and/or

operational limitations in an approved odor control or odor abatement plan. Therefore, significant objectionable odors would not be emitted by the Project.

Cumulative

The Basin is currently in State nonattainment for ozone, PM₁₀, and PM_{2.5}.¹¹ With regard to determining the significance of the Project contribution, the SCAQMD neither recommends quantified analyses of construction and/or operational emissions from multiple development projects nor provides methodologies or thresholds of significance to be used to assess the cumulative emissions generated by multiple cumulative projects. Instead, the SCAQMD recommends that a project's potential contribution to cumulative impacts be assessed utilizing the same significance criteria as those for project-specific impacts. Furthermore, SCAQMD states that "projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."¹² Therefore, if a project generates less than significant regional or localized construction or operational emissions, then the project would not generate a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment. As shown in **Table 6** through **Table 8**, the construction and operational emissions associated with the proposed Project would not exceed the SCAQMD-recommended operational emission thresholds and would not result in a cumulatively considerable net increase of any criteria pollutant.

Similar to the Project, the greatest potential for TAC emissions at each related project would involve diesel particulate emissions associated with the operation of heavy equipment operation during demolition activities. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual cancer risk" is the likelihood that a person exposed to concentrations of TACS over a 70-year lifetime will contract cancer, based on the use of standard risk-assessment methodology. Construction activities at each related project would not result in a long-term (i.e. 70-year) substantial source of TAC emissions because the emissions are from short-term activities. In addition, SCAQMD Handbook and SCAQMD's supplemental online guidance/information do not require a health risk assessment for short-term construction emissions. It is therefore not required or meaningful to evaluate long-term cancer impacts from construction activities that occur over relatively short durations. As such, cumulative toxic emission impacts during construction would be less than significant

11 SCAQMD, "National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin," accessed May 31, 2018, <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf>.

12 SCAQMD, *Final Cumulative Impacts White Paper Appendices*, accessed May 31, 2018, <http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper-appendix.pdf>.

Greenhouse Gas

Greenhouse Gas Emissions

The current accepted method for accounting for the construction GHG emissions within a project area is to annualize these emissions over a project’s operational lifetime, which is generally defined as 30 years for analysis purposes. Emissions were calculated to determine the Project’s annual GHG emissions inventory. A summary of the GHG emissions for the construction phases is provided in **Table 11: Construction-Related Greenhouse Gas Emissions**. As shown, total maximum construction emissions would be approximately 807 MTCO_{2e}. Construction emissions amortized over 30 years would be approximately 27 MTCO_{2e} per year.

Table 11
Construction-Related Greenhouse Gas Emissions

Year	CO _{2e} Emissions (Metric Tons per Year)
2019	189
2020	328
2021	258
2022	32
Total Construction GHG Emissions	807
Annualized over Project’s Lifetime (30 years)	27

Note: Refer to Appendix A4, Annual, Section 2.1 Overall Construction.

The annual GHG emissions associated with the operation of the Project site are provided in **Table 12: Estimated Greenhouse Gas Emissions**. As shown in **Table 12**, the GHG emissions associated with the Project would result in a net increase of 1,078 MTCO_{2e} per year when compared with the existing uses.

Table 12
Operational Greenhouse Gas Emissions

GHG Emissions Source	Project	Existing	Net Total
	MTCO ₂ e/year		
Construction (amortized)	27	—	+27
Operational (mobile)	880	322	+558
Area	16	<1	+16
Energy	456	36	+420
Waste	11	5	+6
Water	56	5	+51
Total	1,448	368	1,078

Note: Refer to Appendix A1, Annual (Existing), and A4, Annual (Proposed), Section 2.2 Overall Operational.

Policy Consistency

CEQA Guidelines Section 15130(f) clarifies that the effects of GHG emissions are cumulative and should be analyzed in the context of CEQA’s requirements for cumulative impact analysis. CEQA Guidelines Section 15064.4 recommends consideration of qualitative factors that may be used in the determination of significance, including the extent to which a project complies with regulations or requirements adopted to implement a reduction or mitigation of GHGs. Per CEQA Guidelines Section 15064(h)(3), a project’s incremental contribution to a cumulative impact can be found not cumulatively considerable if the project will comply with an approved plan or mitigation program that provides specific requirements to avoid or substantially lessen the cumulative problem within the geographic area of the project. Examples of such programs include “plans or regulations for the reduction of greenhouse gas emissions.”

Senate Bill (SB) 375, passed in 2008, links transportation and land use planning with global warming. It requires CARB to set regional targets for the purpose of reducing GHG emissions from passenger vehicles. Under this law, if regions develop integrated land use, housing, and transportation plans that meet SB 375 targets, new projects in these regions can be relieved of certain review requirements under CEQA. As noted previously, SCAG has adopted the 2016 RTP/SCS, while West Hollywood has adopted the CAP, which meets GHG reduction targets established by SCAG and adopted by CARB. The CAP uses land use development patterns, transportation infrastructure investments, transportation measures, and other policies determined to be feasible to reduce GHGs.

At this time, no air agency, including the SCAQMD, has adopted applicable project-level significance thresholds for GHG emissions. AB 32 did not set a significance threshold for GHG emissions, although the US Environmental Protection Agency, CARB, or another agency may issue regulations at some point that

could set forth significance criteria for CEQA analysis. In the interim, neither the CEQA Guidelines, the SCAQMD Handbook, nor the AQMP sets forth applicable significance thresholds for GHG emissions.

Due to the complex physical, chemical, and atmospheric mechanisms involved in global climate change, no basis exists for concluding that the proposed Project's very small and essentially temporary (primarily from construction) increase in emissions would cause a measurable increase in global GHG emissions necessary to force global climate change.

SCAG 2016 RTP/SCS

At the regional level, the 2016 RTP/SCS is an applicable plan adopted for the purpose of reducing GHGs. In order to assess the proposed Project's potential to conflict with 2016 RTP/SCS, this section also analyzes the proposed Project's land use assumptions for consistency with those utilized by SCAG in its SCS. Generally, projects are considered consistent with the provisions and general policies of applicable City and regional land use plans and regulations, such as SCAG's SCS, if they are compatible with the general intent of the plans and would not preclude the attainment of their primary goals. As shown in **Table 13: Consistency Analysis—2016–2040 RTP/SCS**, demonstrates the Project's consistency with the actions and strategies set forth in the 2012 RTP/SCS, which was reaffirmed in the 2016 RTP/SCS.¹³

City of West Hollywood Climate Action Plan

The CAP recommends measures and actions that translate the City's vision into on-the-ground action. These measures define the direction that the City will take to accomplish its GHG reduction goals, while actions define the specific steps that City staff and decision-makers will take over time. Overall, the goal of the CAP is to reduce West Hollywood's community-wide GHG emissions by 20 percent to 25 percent below 2008 emission levels by the year 2035. The relationship of the proposed Project to the applicable goals of the City's Climate Action Plan is summarized in **Table 14: Consistency Analysis—West Hollywood Climate Action Plan**.

¹³ As discussed in the 2016 RTP/SCS, the actions and strategies included in the 2016 RTP/SCS remain unchanged from those adopted in the 2012-2035 RTP/SCS.

Table 13
Consistency Analysis 2016–2040 RTP/SCS

Actions and Strategies	Responsible Party or Parties	Consistency Analysis
<i>Land Use Actions and Strategies</i>		
Encourage the use of range-limited battery electric and other alternative fueled vehicles through policies and programs, such as, but not limited to, neighborhood-oriented development, complete streets, and Electric (and other alternative fuel) Vehicle Supply Equipment in public parking lots.	Local jurisdictions, COGs, SCAG, County Transportation Commissions (CTCs)	Consistent. The proposed Project would not impair the City’s or SCAG’s ability to encourage the use of alternatively fueled vehicles through various policies and programs. The proposed Project would provide 5 electric vehicle (EV)-ready parking spaces of the total parking supply.
Collaborate with the region’s public health professionals to enhance how SCAG addresses public health issues in its regional planning, programming, and project development activities.	SCAG, State, local jurisdictions	Consistent. The proposed Project would not impair the City’s, SCAG’s, or the State’s ability to collaborate to address the region’s public health issues through regional planning. Moreover, the proposed Project would include passive and active recreation areas that would be open to the public and/or employees. As mentioned previously, the proposed Project would comply with existing regulations to reduce greenhouse gas emissions, minimize hazards, and ensure water quality.
Support projects, programs, and policies that support active and healthy community environments that encourage safe walking, bicycling, and physical activity by children, including, but not limited to development of complete streets, school sitting policies, joint use agreement, and bicycle and pedestrian safety education.	Local jurisdictions, SCAG	Consistent. The proposed Project would encourage healthy lifestyles through the provision of bicycle parking spaces on-site. The proposed Project would not conflict or interfere with any community environments or any other support projects.
Seek partnerships with State, regional, and local agencies to acquire funding sources for innovating planning projects.	Local jurisdictions, SCAG, State	Consistent. The proposed Project would not impair the City’s, SCAG’s or the State’s ability to seek partnerships in furtherance of funding acquisition. Additionally, the proposed Project would support this measure by providing additional employment opportunities and affordable housing that would serve the community on-site and at large.
Update local zoning codes, General Plans, and other regulatory policies to accelerate adoption of land use strategies included in the 2012–2035 RTP/SCS Plan Alternative, or that have been formally adopted by any	Local jurisdictions	Not Applicable. The proposed Project would support this action/strategy via consistency with the RTP/SCS and local zoning codes. The proposed Project would not need to update

Actions and Strategies	Responsible Party or Parties	Consistency Analysis
sub-regional COG that is consistent with regional goals.		zoning as the proposed uses would be consistent with current zoning.
Update local zoning codes, General Plans, and other regulatory policies to promote a more balanced mix of residential, commercial, industrial, recreational and institutional uses located to provide options and to contribute to the resiliency and vitality of neighborhoods and districts.	Local jurisdictions	Consistent. The proposed Project would support this action/strategy by expanding residential development with a mixed-use building consisting of residential and commercial uses that offers employment opportunities and would contribute to the balance of uses and resiliency and vitality of the existing neighborhoods in and the surrounding areas. The current zoning would be consistent with the proposed uses.
Transportation Network Actions and Strategies		
Perform and support studies with the goal of identifying innovative transportation strategies that enhance mobility and air quality, and determine practical steps to pursue such strategies, while engaging local communities in planning efforts.	SCAG, CTCs	Consistent. The responsible parties identified in the RTP/SCS for implementation of this action/strategy are SCAG and CTCs. The Project would not impair the ability of SCAG and CTCs to perform and support various studies. The proposed Project would also observe regulatory measures to reduce greenhouse gas emissions.
Cooperate with stakeholders, particularly county transportation commissions and Caltrans, to identify new funding sources and/or increased funding levels for the preservation and maintenance of the existing transportation network.	SCAG, CTCs, local jurisdictions	Consistent. The proposed Project would not impair the ability of SCAG, the CTCs, or the City to cooperate with stakeholders to identify new funding sources and/or increase funding levels.
Explore and implement innovative strategies and projects that enhance mobility and air quality, including those that increase the walkability of communities and accessibility to transit via non-auto modes, including walking, bicycling, and neighborhood electric vehicles (NEVs) or other alternative fueled vehicles.	SCAG, CTCs, local jurisdictions	Consistent. The proposed Project would provide bicycle parking spaces in accordance with West Hollywood municipal code requirements. The proposed Project would also follow the West Hollywood CAP which includes electricity efficiency and the reduction in GHG emissions through sustainable practices. By combining these methods, the proposed Project would serve to reduce pollutant emissions and improve air quality, thereby contributing to a reduction in air pollutant emissions.
Collaborate with local jurisdictions to plan and develop residential and employment development around current and planned transit stations and neighborhood commercial centers.	SCAG, CTCs, local jurisdictions	Consistent. The Project site is in a Transit Priority Area as designated in the RTP/SCS and expands on current employment within such area.
Transportation Demand Management (TDM) Actions and Strategies		
Develop comprehensive regional active transportation network along with	SCAG, CTCs, local jurisdictions	Consistent. All proposed Project transportation-related improvements would

Actions and Strategies	Responsible Party or Parties	Consistency Analysis
supportive tools and resources that can help jurisdictions plan and prioritize new active transportation projects in their cities.		be developed in consultation with the traffic study recommendations and transit service providers, as appropriate, and constructed in compliance with their respective standards.
Support work-based programs that encourage emission reduction strategies and incentivize active transportation commuting or ride-share modes.	SCAG, local jurisdictions	Consistent. The proposed Project would not conflict with any existing or proposed emission reduction strategies and would have accessibility for transportation commuting modes. In addition, the proposed Project would provide bicycle parking (short and long-term) to facilitate use of transit and non-automobile commuting.
Develop infrastructure plans and educational programs to promote active transportation options and other alternative fueled vehicles, such as neighborhood electric vehicles (NEVs), and consider collaboration with local public health departments, walking/biking coalitions, and/or Safe Routes to School initiatives, which may already have components of such educational programs in place.	Local jurisdictions	Consistent. The proposed Project would not interfere with any plans to reduce vehicular traffic on the street and freeway system during the most congested time periods of the day. The proposed Project would promote non-auto travel through pedestrian- and bicycle-friendly design, including short- and long-term bicycle parking amenities.
Encourage the development of telecommuting programs by employers through review and revision of policies that may discourage alternative work options.	Local jurisdictions, CTCs	Consistent. The proposed Project would not interfere with any plans to reduce vehicular traffic on the street and freeway system during the most congested time periods of the day. The proposed Project would promote non-auto travel through pedestrian- and bicycle-friendly design, including short- and long-term bicycle parking amenities.
Emphasize active transportation and alternative fueled vehicle projects as part of complying with the Complete Streets Act (AB 1358).	State, SCAG, local jurisdictions	Consistent. As discussed above, the proposed Project would provide 5 EV ready parking spaces.
Transportation System Management (TSM) Actions and Strategies		
Contribute to and utilize regional data sources to ensure efficient integration of the transportation system.	SCAG, CTCs	Consistent. The responsible parties identified in the RTP/SCS for implementation of this action/strategy are SCAG and CTCs. However, the proposed Project traffic analysis is based on a traffic model as shown in the traffic study, as the primary tool for forecasting traffic volumes within the City of West Hollywood. In addition, SCAG’s regional data, including population and housing forecasts are used where appropriate throughout this analysis.

Actions and Strategies	Responsible Party or Parties	Consistency Analysis
Clean Vehicle Technology Actions and Strategies		
<p>Support subregional strategies to develop infrastructure and supportive land uses to accelerate fleet conversion to electric or other near zero-emission technologies. The activities committed in the two subregions (Western Riverside COG and South Bay Cities COG) are put forward as best practices that others can adopt in the future</p>	<p>SCAG, local jurisdictions</p>	<p>Consistent. The proposed Project would not impair the City’s or SCAG’s ability to support subregional strategies in furtherance of that conversion and will facilitate it within the Project site through provision of EV-ready parking spaces on-site.</p>
<p>Source: SCAG 2012–2035 RTP/SCS, Chapter 4: Sustainable Communities Strategy, Tables 4.3 through 4.7; April 2012.</p>		
<p>Notes:</p>		
<p>Not Applicable: Actions/strategies are those that are not identified for implementation of local jurisdictions. The Project’s consistency with any actions/strategies identified for implementation by the local jurisdictions is assessed above.</p>		
<p>COG = subregional council of governments; CTC = county transportation commission HCD = California Department of Housing and Community Development; HQTA = High Quality Transit Area; PEV = plug-in electric vehicle; SCAG = Southern California Association of Governments; TOD = transit-oriented development.</p>		

Table 14
Consistency Analysis—West Hollywood Climate Action Plan

Measure	Project Consistency
<i>Land Use and Community Design</i>	
LU-1.1: Facilitate the establishment of mixed-use, pedestrian- and transit- oriented development along the commercial corridors and in Transit Overlay Zones	Consistent. The proposed Project would be located a transit priority area. The Project site is located along the Santa Monica Boulevard commercial corridor.
<i>Transportation and Mobility</i>	
T-1.1: Increase the pedestrian mode share in West Hollywood with convenient and attractive pedestrian infrastructure and facilities.	Consistent. The Project site is located along the Santa Monica Boulevard commercial corridor that is within walking distance of retail facilities, public transportation, and other commercial uses.
T-2.2: Install bike rack and bike parking in the City where bike parking infrastructure currently does not exist.	Consistent. The Project would include 21 bicycle parking spaces in accordance with West Hollywood green building program requirements and West Hollywood Zoning Code Section 19.28.150A.
<i>Energy Use and Efficiency</i>	
E-2.2: Require all new construction to achieve California Building Code Tier II Energy Efficiency Standards (Section 503.1.2).	Consistent. The proposed Project will be designed according to the California Green Building Code Tier 2 Energy Efficiency standards. Additionally, the Project incorporate additional sustainable landscaping features to further reduce its energy consumption.
E-3.1: Require that all new construction and condominium conversions be sub-metered to allow each tenant the ability to monitor their own energy and water use.	Consistent. The proposed Project will feature sub-meters to allow each ternate access to monitor their own energy and water use as required in the Climate Action Plan.
E-3.2: Require the use of recycled materials for 20% of construction materials in all new construction.	Consistent. The proposed Project would incorporate a minimum of 20% recycled materials for building construction through the use of recycled-content base and backfill materials. Additionally, the Project will install a minimum of 25% formaldehyde-free, recycled content as insulation.
E-3.3: Facilitate installation of solar hot water heating systems on commercial and multi-family buildings.	Consistent. The proposed Project will provide pre-plumb and conduits for solar water heating.
E-3.4: Facilitate the installation of solar photovoltaic systems on multi-family residential, commercial, and industrial buildings, and parking lots.	Consistent. The proposed Project will reserve 15.5% of the roof area for potential future solar panels.
<i>Water Use and Efficiency</i>	
W-1.1: Reduce per capita water consumption by 30% by 2035.	Consistent. The proposed Project would include low-flow plumbing fixtures consistent with CalGreen building standards to reduce water use and would also utilize drought-tolerant landscaping.

Measure	Project Consistency
W-1.2: Encourage all automated irrigation systems installed in the City to include a weather-based control system.	Consistent. Although the Project would involve minimal irrigation, the Project would include a water efficient irrigation system.
Waste Reduction and Recycling	
SW-1.1: Establish a waste reduction target not to exceed 4.0 pounds per day.	Consistent. The City’s Public Works Department is responsible for complying with AB 939. The City has enacted numerous programs to achieve the mandated diversion rates. Since 2008, the City per capita waste generation has decreased substantially from 5.0 to 3.3 pounds per day, therefore meeting and exceeding this goal in the CAP. ¹⁴ The proposed Project would include space for the collection and storage of recyclables. In addition, at least 80 percent of construction and demolition waste would be diverted in accordance with WHMC Section 19.20.060. The Project would also be subject to all applicable State and City requirements for solid waste reduction.
Green Space	
G-1.2: Establish a green roof and roof garden program to standardize, promote, and incentivize green roofs and roof gardens throughout the City.	Consistent. The Project would include drought-tolerant and native species for landscaping around the perimeter of the buildings and a rooftop deck garden.

CONCLUSIONS

Construction and operation of the proposed Project would not result in any significant increase in air pollutants or GHG emissions. Furthermore, the Project would not conflict with any local, State, or Federal policy or plan intended to improve air quality and reduce GHG emissions.

¹⁴ City of West Hollywood, 2017 City of West Hollywood, Climate Action Plan Annual Progress Report, May 2018, <https://www.weho.org/home/showdocument?id=36586>. Accessed August 2018

7617 Santa Monica Blvd - Existing - South Coast Air Basin, Annual

**7617 Santa Monica Blvd - Existing
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	12.00	Space	0.11	4,800.00	0
Automobile Care Center	4.91	1000sqft	0.11	4,910.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing uses include car wash and 12 parking stalls on a 0.72-acre site

Construction Phase - Operational only

Off-road Equipment - No cranes

Trips and VMT - Operational only

Demolition -

Grading -

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					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0221	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.3000e-004	4.3000e-004	0.0000	0.0000	4.6000e-004
Energy	4.8000e-004	4.3600e-003	3.6600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	36.0332	36.0332	8.3000e-004	2.4000e-004	36.1254
Mobile	0.1456	0.6169	1.4032	3.4900e-003	0.2485	4.3500e-003	0.2528	0.0666	4.1000e-003	0.0707	0.0000	321.2182	321.2182	0.0213	0.0000	321.7511

Waste						0.0000	0.0000			0.0000	0.0000	3.8081	0.0000	3.8081	0.2251	0.0000	9.4344
Water						0.0000	0.0000			0.0000	0.0000	0.1466	5.1020	5.2485	0.0152	3.8000e-004	5.7412
Total	0.1682	0.6212	1.4071	3.5200e-003	0.2485	4.6800e-003	0.2531	0.0666	4.4300e-003	0.0710	3.9547	362.3537	366.3084	0.2624	6.2000e-004	373.0526	

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0221	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.3000e-004	4.3000e-004	0.0000	0.0000	4.6000e-004
Energy	4.8000e-004	4.3600e-003	3.6600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	36.0332	36.0332	8.3000e-004	2.4000e-004	36.1254
Mobile	0.1456	0.6169	1.4032	3.4900e-003	0.2485	4.3500e-003	0.2528	0.0666	4.1000e-003	0.0707	0.0000	321.2182	321.2182	0.0213	0.0000	321.7511
Waste						0.0000	0.0000		0.0000	0.0000	1.9041	0.0000	1.9041	0.1125	0.0000	4.7172
Water						0.0000	0.0000		0.0000	0.0000	0.1172	4.3251	4.4424	0.0121	3.1000e-004	4.8370
Total	0.1682	0.6212	1.4071	3.5200e-003	0.2485	4.6800e-003	0.2531	0.0666	4.4300e-003	0.0710	2.0213	361.5768	363.5981	0.1468	5.5000e-004	367.4312

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.89	0.21	0.74	44.04	11.29	1.51

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/18/2018	9/17/2018	5	0	

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1456	0.6169	1.4032	3.4900e-003	0.2485	4.3500e-003	0.2528	0.0666	4.1000e-003	0.0707	0.0000	321.2182	321.2182	0.0213	0.0000	321.7511
Unmitigated	0.1456	0.6169	1.4032	3.4900e-003	0.2485	4.3500e-003	0.2528	0.0666	4.1000e-003	0.0707	0.0000	321.2182	321.2182	0.0213	0.0000	321.7511

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	559.99	559.99	58.33	654,131	654,131
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		

Total	559.99	559.99	58.33	654,131	654,131
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4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.546979	0.044837	0.199064	0.126777	0.018273	0.005878	0.019668	0.028140	0.001951	0.002100	0.004606	0.000701	0.001026
Other Non-Asphalt Surfaces	0.546979	0.044837	0.199064	0.126777	0.018273	0.005878	0.019668	0.028140	0.001951	0.002100	0.004606	0.000701	0.001026
Parking Lot	0.546979	0.044837	0.199064	0.126777	0.018273	0.005878	0.019668	0.028140	0.001951	0.002100	0.004606	0.000701	0.001026

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	31.2907	31.2907	7.4000e-004	1.5000e-004	31.3547
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	31.2907	31.2907	7.4000e-004	1.5000e-004	31.3547
Natural Gas Mitigated	4.8000e-004	4.3600e-003	3.6600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7425	4.7425	9.0000e-005	9.0000e-005	4.7707

NaturalGas Unmitigated	4.8000e-004	4.3600e-003	3.6600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7425	4.7425	9.0000e-005	9.0000e-005	4.7707
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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	88871	4.8000e-004	4.3600e-003	3.6600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7425	4.7425	9.0000e-005	9.0000e-005	4.7707
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.8000e-004	4.3600e-003	3.6600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7425	4.7425	9.0000e-005	9.0000e-005	4.7707

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					
Automobile Care Center	88871	4.8000e-004	4.3600e-003	3.6600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7425	4.7425	9.0000e-005	9.0000e-005	4.7707
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.8000e-004	4.3600e-003	3.6600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7425	4.7425	9.0000e-005	9.0000e-005	4.7707

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	54501	30.3550	7.2000e-004	1.5000e-004	30.4171
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1680	0.9357	2.0000e-005	0.0000	0.9376
Total		31.2907	7.4000e-004	1.5000e-004	31.3547

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	54501	30.3550	7.2000e-004	1.5000e-004	30.4171
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1680	0.9357	2.0000e-005	0.0000	0.9376
Total		31.2907	7.4000e-004	1.5000e-004	31.3547

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0221	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.3000e-004	4.3000e-004	0.0000	0.0000	4.6000e-004
Unmitigated	0.0221	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.3000e-004	4.3000e-004	0.0000	0.0000	4.6000e-004

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	2.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.3000e-004	4.3000e-004	0.0000	0.0000	4.6000e-004
Total	0.0221	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.3000e-004	4.3000e-004	0.0000	0.0000	4.6000e-004

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	2.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.3000e-004	4.3000e-004	0.0000	0.0000	0.0000	4.6000e-004
Total	0.0221	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.3000e-004	4.3000e-004	0.0000	0.0000	0.0000	4.6000e-004

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
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.4424	0.0121	3.1000e-004	4.8370
Unmitigated	5.2485	0.0152	3.8000e-004	5.7412

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.461938 / 0.283123	5.2485	0.0152	3.8000e-004	5.7412
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.2485	0.0152	3.8000e-004	5.7412

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.369551 / 0.265853	4.4424	0.0121	3.1000e-004	4.8370
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.4424	0.0121	3.1000e-004	4.8370

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.9041	0.1125	0.0000	4.7172
Unmitigated	3.8081	0.2251	0.0000	9.4344

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	18.76	3.8081	0.2251	0.0000	9.4344
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.8081	0.2251	0.0000	9.4344

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	9.38	1.9041	0.1125	0.0000	4.7172
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1.9041	0.1125	0.0000	4.7172

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

7617 Santa Monica Blvd - Existing - South Coast Air Basin, Summer

7617 Santa Monica Blvd - Existing
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	12.00	Space	0.11	4,800.00	0
Automobile Care Center	4.91	1000sqft	0.11	4,910.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Existing uses include car wash and 12 parking stalls on a 0.72-acre site
- Construction Phase - Operational only
- Off-road Equipment - No cranes
- Trips and VMT - Operational only
- Demolition -
- Grading -

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					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.3558	0.0000	0.0000	0.3273	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.3558	0.0000	0.0000	0.3273	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003
Energy	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
Mobile	0.9880	3.7737	8.8895	0.0229	1.5944	0.0273	1.6217	0.4266	0.0257	0.4523		2,321.4890	2,321.4890	0.1471		2,325.1664
Total	1.1119	3.7976	8.9114	0.0230	1.5944	0.0291	1.6235	0.4266	0.0275	0.4542		2,350.1377	2,350.1377	0.1477	5.3000e-004	2,353.9856

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003
Energy	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
Mobile	0.9880	3.7737	8.8895	0.0229	1.5944	0.0273	1.6217	0.4266	0.0257	0.4523		2,321.4890	2,321.4890	0.1471		2,325.1664
Total	1.1119	3.7976	8.9114	0.0230	1.5944	0.0291	1.6235	0.4266	0.0275	0.4542		2,350.1377	2,350.1377	0.1477	5.3000e-004	2,353.9856

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/18/2018	9/17/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.61

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
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Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9880	3.7737	8.8895	0.0229	1.5944	0.0273	1.6217	0.4266	0.0257	0.4523		2,321.4890	2,321.4890	0.1471		2,325.1664
Unmitigated	0.9880	3.7737	8.8895	0.0229	1.5944	0.0273	1.6217	0.4266	0.0257	0.4523		2,321.4890	2,321.4890	0.1471		2,325.1664

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	559.99	559.99	58.33	654,131	654,131
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	559.99	559.99	58.33	654,131	654,131

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28

Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.546979	0.044837	0.199064	0.126777	0.018273	0.005878	0.019668	0.028140	0.001951	0.002100	0.004606	0.000701	0.001026
Other Non-Asphalt Surfaces	0.546979	0.044837	0.199064	0.126777	0.018273	0.005878	0.019668	0.028140	0.001951	0.002100	0.004606	0.000701	0.001026
Parking Lot	0.546979	0.044837	0.199064	0.126777	0.018273	0.005878	0.019668	0.028140	0.001951	0.002100	0.004606	0.000701	0.001026

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003			28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
NaturalGas Unmitigated	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003			28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152

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
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Land Use	kBTU/yr	lb/day									lb/day						
Automobile Care Center	243.482	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152

Mitigated

	Natural Gas 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						
Automobile Care Center	0.243482	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003
Unmitigated	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0145					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1066					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003
Total	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.0145					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	0.1066					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005			4.0700e-003
Total	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005			4.0700e-003

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Existing Winter

7617 Santa Monica Blvd - Existing - South Coast Air Basin, Winter

**7617 Santa Monica Blvd - Existing
South Coast Air Basin, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	12.00	Space	0.11	4,800.00	0
Automobile Care Center	4.91	1000sqft	0.11	4,910.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Existing uses include car wash and 12 parking stalls on a 0.72-acre site
- Construction Phase - Operational only
- Off-road Equipment - No cranes
- Trips and VMT - Operational only
- Demolition -
- Grading -

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					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.3558	0.0000	0.0000	0.3273	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.3558	0.0000	0.0000	0.3273	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003
Energy	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
Mobile	0.9540	3.8166	8.8121	0.0216	1.5944	0.0277	1.6221	0.4266	0.0261	0.4527		2,195.9065	2,195.9065	0.1501		2,199.6578
Total	1.0779	3.8405	8.8340	0.0218	1.5944	0.0295	1.6240	0.4266	0.0279	0.4546		2,224.5552	2,224.5552	0.1506	5.3000e-004	2,228.4770

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003
Energy	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
Mobile	0.9540	3.8166	8.8121	0.0216	1.5944	0.0277	1.6221	0.4266	0.0261	0.4527		2,195.9065	2,195.9065	0.1501		2,199.6578
Total	1.0779	3.8405	8.8340	0.0218	1.5944	0.0295	1.6240	0.4266	0.0279	0.4546		2,224.5552	2,224.5552	0.1506	5.3000e-004	2,228.4770

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/18/2018	9/17/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.61

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
------------	------------------------	--------	-------------	-------------	-------------

Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
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Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9540	3.8166	8.8121	0.0216	1.5944	0.0277	1.6221	0.4266	0.0261	0.4527		2,195.9065	2,195.9065	0.1501		2,199.6578
Unmitigated	0.9540	3.8166	8.8121	0.0216	1.5944	0.0277	1.6221	0.4266	0.0261	0.4527		2,195.9065	2,195.9065	0.1501		2,199.6578

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	559.99	559.99	58.33	654,131	654,131
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	559.99	559.99	58.33	654,131	654,131

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28

Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.546979	0.044837	0.199064	0.126777	0.018273	0.005878	0.019668	0.028140	0.001951	0.002100	0.004606	0.000701	0.001026
Other Non-Asphalt Surfaces	0.546979	0.044837	0.199064	0.126777	0.018273	0.005878	0.019668	0.028140	0.001951	0.002100	0.004606	0.000701	0.001026
Parking Lot	0.546979	0.044837	0.199064	0.126777	0.018273	0.005878	0.019668	0.028140	0.001951	0.002100	0.004606	0.000701	0.001026

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003			28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
NaturalGas Unmitigated	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003			28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152

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
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Land Use	kBTU/yr	lb/day									lb/day						
Automobile Care Center	243.482	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152

Mitigated

	Natural Gas 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						
Automobile Care Center	0.243482	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.6300e-003	0.0239	0.0201	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		28.6450	28.6450	5.5000e-004	5.3000e-004	28.8152

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003
Unmitigated	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0145					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1066					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003
Total	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005		4.0700e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.0145					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	0.1066					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005			4.0700e-003
Total	0.1213	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.8100e-003	3.8100e-003	1.0000e-005			4.0700e-003

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Projected Annual

7617 Santa Monica Blvd - Project - South Coast Air Basin, Annual

**7617 Santa Monica Blvd - 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	146.00	Space	0.00	58,400.00	0
Parking Lot	30.00	Space	0.27	12,000.00	0
Apartments Mid Rise	71.00	Dwelling Unit	0.45	48,975.00	111
Strip Mall	9.24	1000sqft	0.00	9,240.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year	2023		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 4-story mixed use building would feature apartment units and commercial retail and restaurant uses

Construction Phase - Anticipated construction schedule to start October 2019 and would last approximately 30 months.

Off-road Equipment - No cranes

Trips and VMT - Disposal site: Sunshine Canyon approximately 21.5 miles from the site

Demolition - 4,000 cubic yards (1,080 tons) of debris removed during demolition

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	5.00	87.00
tblConstructionPhase	NumDays	100.00	391.00
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	2.00	109.00
tblConstructionPhase	NumDays	5.00	87.00
tblConstructionPhase	NumDays	1.00	21.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	10.50	0.50
tblGrading	MaterialExported	0.00	12,500.00
tblGrading	MaterialExported	0.00	12,500.00
tblLandUse	LandUseSquareFeet	71,000.00	48,975.00
tblLandUse	LotAcreage	1.31	0.00
tblLandUse	LotAcreage	1.87	0.45
tblLandUse	LotAcreage	0.21	0.00
tblLandUse	Population	203.00	111.00
tblTripsAndVMT	HaulingTripLength	20.00	43.00
tblTripsAndVMT	HaulingTripLength	20.00	43.00
tblTripsAndVMT	HaulingTripLength	20.00	43.00
tblTripsAndVMT	HaulingTripNumber	1,563.00	1,562.00
tblTripsAndVMT	HaulingTripNumber	1,563.00	1,562.00
tblVehicleTrips	ST_TR	6.39	6.23
tblVehicleTrips	ST_TR	42.04	41.23
tblVehicleTrips	WD_TR	6.65	6.23
tblVehicleTrips	WD_TR	44.32	41.23
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	NumberNoncatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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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					
2019	0.0467	0.8334	0.3430	1.9500e-003	0.0785	0.0183	0.0968	0.0217	0.0173	0.0390	0.0000	188.1840	188.1840	0.0174	0.0000	188.6197
2020	0.1437	1.4230	1.3009	3.5400e-003	0.1579	0.0591	0.2170	0.0515	0.0552	0.1067	0.0000	327.3268	327.3268	0.0411	0.0000	328.3536
2021	0.2367	1.0370	1.2777	2.8500e-003	0.1225	0.0490	0.1715	0.0329	0.0454	0.0782	0.0000	256.9847	256.9847	0.0387	0.0000	257.9532
2022	0.1203	0.1559	0.2095	3.7000e-004	8.0600e-003	7.9900e-003	0.0161	2.1400e-003	7.5600e-003	9.7000e-003	0.0000	31.8747	31.8747	6.2700e-003	0.0000	32.0315
Maximum	0.2367	1.4230	1.3009	3.5400e-003	0.1579	0.0591	0.2170	0.0515	0.0552	0.1067	0.0000	327.3268	327.3268	0.0411	0.0000	328.3536

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					
2019	0.0318	0.8699	0.3665	1.9500e-003	0.0654	0.0139	0.0793	0.0177	0.0138	0.0315	0.0000	188.1839	188.1839	0.0174	0.0000	188.6197
2020	0.1064	1.7147	1.3231	3.5400e-003	0.1374	0.0495	0.1869	0.0405	0.0493	0.0898	0.0000	327.3267	327.3267	0.0411	0.0000	328.3534
2021	0.2088	1.3834	1.2905	2.8500e-003	0.1225	0.0463	0.1687	0.0329	0.0462	0.0790	0.0000	256.9845	256.9845	0.0387	0.0000	257.9531

2022	0.1131	0.2273	0.2071	3.7000e-004	8.0600e-003	8.4500e-003	0.0165	2.1400e-003	8.4400e-003	0.0106	0.0000	31.8747	31.8747	6.2700e-003	0.0000	32.0314
Maximum	0.2088	1.7147	1.3231	3.5400e-003	0.1374	0.0495	0.1869	0.0405	0.0493	0.0898	0.0000	327.3267	327.3267	0.0411	0.0000	328.3534

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	15.94	-21.63	-1.79	0.00	9.14	12.16	9.95	13.89	6.12	9.72	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2019	12-31-2019	0.8713	0.8919
2	1-1-2020	3-31-2020	0.5274	0.5961
3	4-1-2020	6-30-2020	0.3833	0.4464
4	7-1-2020	9-30-2020	0.3189	0.3799
5	10-1-2020	12-31-2020	0.3210	0.3821
6	1-1-2021	3-31-2021	0.2840	0.3651
7	4-1-2021	6-30-2021	0.2853	0.3673
8	7-1-2021	9-30-2021	0.2885	0.3713
9	10-1-2021	12-31-2021	0.4070	0.4796
10	1-1-2022	3-31-2022	0.2821	0.3476
		Highest	0.8713	0.8919

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2592	0.0210	0.7401	1.2000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	15.6929	15.6929	1.4400e-003	2.7000e-004	15.8081
Energy	3.6100e-003	0.0309	0.0135	2.0000e-004		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	454.7488	454.7488	0.0106	2.7000e-003	455.8187

Mobile	0.1931	0.8926	2.4708	9.5000e-003	0.8247	6.8900e-003	0.8316	0.2210	6.4100e-003	0.2274	0.0000	878.5719	878.5719	0.0407	0.0000	879.5895
Waste						0.0000	0.0000		0.0000	0.0000	8.5987	0.0000	8.5987	0.5082	0.0000	21.3029
Water						0.0000	0.0000		0.0000	0.0000	1.6847	59.1535	60.8382	0.1744	4.3700e-003	66.5028
Total	0.4559	0.9445	3.2244	9.8200e-003	0.8247	0.0145	0.8391	0.2210	0.0140	0.2349	10.2834	1,408.1670	1,418.4505	0.7353	7.3400e-003	1,439.0219

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2592	0.0210	0.7401	1.2000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	15.6929	15.6929	1.4400e-003	2.7000e-004	15.8081
Energy	3.6100e-003	0.0309	0.0135	2.0000e-004		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	454.7488	454.7488	0.0106	2.7000e-003	455.8187
Mobile	0.1931	0.8926	2.4708	9.5000e-003	0.8247	6.8900e-003	0.8316	0.2210	6.4100e-003	0.2274	0.0000	878.5719	878.5719	0.0407	0.0000	879.5895
Waste						0.0000	0.0000		0.0000	0.0000	4.2994	0.0000	4.2994	0.2541	0.0000	10.6515
Water						0.0000	0.0000		0.0000	0.0000	1.3478	50.1920	51.5398	0.1396	3.5100e-003	56.0773
Total	0.4559	0.9445	3.2244	9.8200e-003	0.8247	0.0145	0.8391	0.2210	0.0140	0.2349	5.6471	1,399.2055	1,404.8527	0.4464	6.4800e-003	1,417.9450

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.09	0.64	0.96	39.29	11.72	1.46

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
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1	Demolition	Demolition	10/1/2019	10/31/2019	5	23
2	Site Preparation	Site Preparation	11/1/2019	11/30/2019	5	21
3	Grading	Grading	12/2/2019	4/30/2020	5	109
4	Building Construction	Building Construction	5/1/2020	10/31/2021	5	391
5	Paving	Paving	11/1/2021	3/1/2022	5	87
6	Architectural Coating	Architectural Coating	11/1/2021	3/1/2022	5	87

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.27

Residential Indoor: 99,174; Residential Outdoor: 33,058; Non-Residential Indoor: 13,860; Non-Residential Outdoor: 4,620; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	107.00	14.70	6.90	43.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	1,562.00	14.70	6.90	43.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,562.00	14.70	6.90	43.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	84.00	21.00	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
Architectural Coating	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					
Fugitive Dust					0.0116	0.0000	0.0116	1.7500e-003	0.0000	1.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0989	0.0885	1.4000e-004		6.1800e-003	6.1800e-003		5.8900e-003	5.8900e-003	0.0000	12.0983	12.0983	2.3100e-003	0.0000	12.1559
Total	0.0110	0.0989	0.0885	1.4000e-004	0.0116	6.1800e-003	0.0177	1.7500e-003	5.8900e-003	7.6400e-003	0.0000	12.0983	12.0983	2.3100e-003	0.0000	12.1559

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	8.8000e-004	0.0294	6.1900e-003	8.0000e-005	1.9800e-003	1.2000e-004	2.1000e-003	5.4000e-004	1.2000e-004	6.6000e-004	0.0000	8.2228	8.2228	5.3000e-004	0.0000	8.2362
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	4.4000e-004	4.8000e-003	1.0000e-005	1.2600e-003	1.0000e-005	1.2700e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.1733	1.1733	4.0000e-005	0.0000	1.1742
Total	1.4300e-003	0.0298	0.0110	9.0000e-005	3.2400e-003	1.3000e-004	3.3700e-003	8.8000e-004	1.3000e-004	1.0000e-003	0.0000	9.3961	9.3961	5.7000e-004	0.0000	9.4104

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					4.5100e-003	0.0000	4.5100e-003	6.8000e-004	0.0000	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5700e-003	0.1192	0.0913	1.4000e-004		4.6200e-003	4.6200e-003		4.6200e-003	4.6200e-003	0.0000	12.0983	12.0983	2.3100e-003	0.0000	12.1559
Total	5.5700e-003	0.1192	0.0913	1.4000e-004	4.5100e-003	4.6200e-003	9.1300e-003	6.8000e-004	4.6200e-003	5.3000e-003	0.0000	12.0983	12.0983	2.3100e-003	0.0000	12.1559

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	8.8000e-004	0.0294	6.1900e-003	8.0000e-005	1.9800e-003	1.2000e-004	2.1000e-003	5.4000e-004	1.2000e-004	6.6000e-004	0.0000	8.2228	8.2228	5.3000e-004	0.0000	8.2362
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	4.4000e-004	4.8000e-003	1.0000e-005	1.2600e-003	1.0000e-005	1.2700e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.1733	1.1733	4.0000e-005	0.0000	1.1742
Total	1.4300e-003	0.0298	0.0110	9.0000e-005	3.2400e-003	1.3000e-004	3.3700e-003	8.8000e-004	1.3000e-004	1.0000e-003	0.0000	9.3961	9.3961	5.7000e-004	0.0000	9.4104

3.3 Site Preparation - 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					
Fugitive Dust					9.7000e-004	0.0000	9.7000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5600e-003	0.0936	0.0435	1.0000e-004		3.8600e-003	3.8600e-003		3.5500e-003	3.5500e-003	0.0000	9.1937	9.1937	2.9100e-003	0.0000	9.2664
Total	7.5600e-003	0.0936	0.0435	1.0000e-004	9.7000e-004	3.8600e-003	4.8300e-003	1.4000e-004	3.5500e-003	3.6900e-003	0.0000	9.1937	9.1937	2.9100e-003	0.0000	9.2664

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	0.0129	0.4291	0.0904	1.2200e-003	0.0288	1.8200e-003	0.0307	7.9100e-003	1.7400e-003	9.6500e-003	0.0000	120.0379	120.0379	7.8100e-003	0.0000	120.2331
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	2.0000e-004	2.1900e-003	1.0000e-005	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.5356	0.5356	2.0000e-005	0.0000	0.5361

Total	0.0131	0.4293	0.0926	1.2300e-003	0.0294	1.8200e-003	0.0312	8.0600e-003	1.7400e-003	9.8100e-003	0.0000	120.5736	120.5736	7.8300e-003	0.0000	120.7692
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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					3.8000e-004	0.0000	3.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2300e-003	0.0905	0.0615	1.0000e-004		2.5300e-003	2.5300e-003		2.5300e-003	2.5300e-003	0.0000	9.1937	9.1937	2.9100e-003	0.0000	9.2664
Total	3.2300e-003	0.0905	0.0615	1.0000e-004	3.8000e-004	2.5300e-003	2.9100e-003	5.0000e-005	2.5300e-003	2.5800e-003	0.0000	9.1937	9.1937	2.9100e-003	0.0000	9.2664

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	0.0129	0.4291	0.0904	1.2200e-003	0.0288	1.8200e-003	0.0307	7.9100e-003	1.7400e-003	9.6500e-003	0.0000	120.0379	120.0379	7.8100e-003	0.0000	120.2331
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	2.0000e-004	2.1900e-003	1.0000e-005	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.5356	0.5356	2.0000e-005	0.0000	0.5361
Total	0.0131	0.4293	0.0926	1.2300e-003	0.0294	1.8200e-003	0.0312	8.0600e-003	1.7400e-003	9.8100e-003	0.0000	120.5736	120.5736	7.8300e-003	0.0000	120.7692

3.4 Grading - 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					
Fugitive Dust					8.9900e-003	0.0000	8.9900e-003	4.6600e-003	0.0000	4.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0946	0.0846	1.3000e-004		5.9100e-003	5.9100e-003		5.6400e-003	5.6400e-003	0.0000	11.5723	11.5723	2.2100e-003	0.0000	11.6274
Total	0.0105	0.0946	0.0846	1.3000e-004	8.9900e-003	5.9100e-003	0.0149	4.6600e-003	5.6400e-003	0.0103	0.0000	11.5723	11.5723	2.2100e-003	0.0000	11.6274

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	2.6000e-003	0.0866	0.0182	2.5000e-004	0.0232	3.7000e-004	0.0235	5.8500e-003	3.5000e-004	6.2100e-003	0.0000	24.2278	24.2278	1.5800e-003	0.0000	24.2672
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	4.2000e-004	4.5900e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1223	1.1223	4.0000e-005	0.0000	1.1232
Total	3.1300e-003	0.0870	0.0228	2.6000e-004	0.0244	3.8000e-004	0.0248	6.1700e-003	3.6000e-004	6.5400e-003	0.0000	25.3501	25.3501	1.6200e-003	0.0000	25.3904

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					3.5000e-003	0.0000	3.5000e-003	1.8200e-003	0.0000	1.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3300e-003	0.1140	0.0873	1.3000e-004		4.4200e-003	4.4200e-003		4.4200e-003	4.4200e-003	0.0000	11.5722	11.5722	2.2100e-003	0.0000	11.6274
Total	5.3300e-003	0.1140	0.0873	1.3000e-004	3.5000e-003	4.4200e-003	7.9200e-003	1.8200e-003	4.4200e-003	6.2400e-003	0.0000	11.5722	11.5722	2.2100e-003	0.0000	11.6274

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	2.6000e-003	0.0866	0.0182	2.5000e-004	0.0232	3.7000e-004	0.0235	5.8500e-003	3.5000e-004	6.2100e-003	0.0000	24.2278	24.2278	1.5800e-003	0.0000	24.2672
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	4.2000e-004	4.5900e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1223	1.1223	4.0000e-005	0.0000	1.1232
Total	3.1300e-003	0.0870	0.0228	2.6000e-004	0.0244	3.8000e-004	0.0248	6.1700e-003	3.6000e-004	6.5400e-003	0.0000	25.3501	25.3501	1.6200e-003	0.0000	25.3904

3.4 Grading - 2020

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					0.0335	0.0000	0.0335	0.0181	0.0000	0.0181	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0377	0.3425	0.3316	5.2000e-004		0.0203	0.0203		0.0194	0.0194	0.0000	45.2728	45.2728	8.5600e-003	0.0000	45.4868
Total	0.0377	0.3425	0.3316	5.2000e-004	0.0335	0.0203	0.0538	0.0181	0.0194	0.0375	0.0000	45.2728	45.2728	8.5600e-003	0.0000	45.4868

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	9.5500e-003	0.3182	0.0705	9.6000e-004	0.0274	1.1800e-003	0.0286	7.3900e-003	1.1300e-003	8.5200e-003	0.0000	94.7603	94.7603	6.1500e-003	0.0000	94.9141
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	1.9400e-003	1.4900e-003	0.0165	5.0000e-005	4.7700e-003	4.0000e-005	4.8100e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.3005	4.3005	1.2000e-004	0.0000	4.3036
Total	0.0115	0.3196	0.0870	1.0100e-003	0.0322	1.2200e-003	0.0334	8.6600e-003	1.1600e-003	9.8200e-003	0.0000	99.0609	99.0609	6.2700e-003	0.0000	99.2177

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					0.0131	0.0000	0.0131	7.0600e-003	0.0000	7.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0211	0.4510	0.3453	5.2000e-004		0.0175	0.0175		0.0175	0.0175	0.0000	45.2728	45.2728	8.5600e-003	0.0000	45.4868
Total	0.0211	0.4510	0.3453	5.2000e-004	0.0131	0.0175	0.0305	7.0600e-003	0.0175	0.0245	0.0000	45.2728	45.2728	8.5600e-003	0.0000	45.4868

Mitigated Construction Off-Site

Vendor	6.2200e-003	0.1970	0.0497	4.6000e-004	0.0116	9.6000e-004	0.0125	3.3400e-003	9.2000e-004	4.2600e-003	0.0000	44.9540	44.9540	3.0000e-003	0.0000	45.0290
Worker	0.0327	0.0252	0.2788	8.0000e-004	0.0806	6.3000e-004	0.0813	0.0214	5.8000e-004	0.0220	0.0000	72.6643	72.6643	2.0900e-003	0.0000	72.7166
Total	0.0389	0.2222	0.3285	1.2600e-003	0.0922	1.5900e-003	0.0938	0.0248	1.5000e-003	0.0263	0.0000	117.6182	117.6182	5.0900e-003	0.0000	117.7455

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	0.0350	0.7219	0.5623	7.4000e-004		0.0292	0.0292		0.0292	0.0292	0.0000	65.3749	65.3749	0.0211	0.0000	65.9035
Total	0.0350	0.7219	0.5623	7.4000e-004		0.0292	0.0292		0.0292	0.0292	0.0000	65.3749	65.3749	0.0211	0.0000	65.9035

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	6.2200e-003	0.1970	0.0497	4.6000e-004	0.0116	9.6000e-004	0.0125	3.3400e-003	9.2000e-004	4.2600e-003	0.0000	44.9540	44.9540	3.0000e-003	0.0000	45.0290
Worker	0.0327	0.0252	0.2788	8.0000e-004	0.0806	6.3000e-004	0.0813	0.0214	5.8000e-004	0.0220	0.0000	72.6643	72.6643	2.0900e-003	0.0000	72.7166
Total	0.0389	0.2222	0.3285	1.2600e-003	0.0922	1.5900e-003	0.0938	0.0248	1.5000e-003	0.0263	0.0000	117.6182	117.6182	5.0900e-003	0.0000	117.7455

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0614	0.6005	0.6774	9.2000e-004		0.0377	0.0377		0.0347	0.0347	0.0000	80.7171	80.7171	0.0261	0.0000	81.3698
Total	0.0614	0.6005	0.6774	9.2000e-004		0.0377	0.0377		0.0347	0.0347	0.0000	80.7171	80.7171	0.0261	0.0000	81.3698

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	6.5200e-003	0.2206	0.0558	5.7000e-004	0.0143	4.5000e-004	0.0147	4.1200e-003	4.3000e-004	4.5500e-003	0.0000	55.0685	55.0685	3.5500e-003	0.0000	55.1573
Worker	0.0377	0.0280	0.3166	9.6000e-004	0.0995	7.5000e-004	0.1003	0.0264	6.9000e-004	0.0271	0.0000	86.7875	86.7875	2.3400e-003	0.0000	86.8459
Total	0.0442	0.2486	0.3724	1.5300e-003	0.1138	1.2000e-003	0.1150	0.0306	1.1200e-003	0.0317	0.0000	141.8560	141.8560	5.8900e-003	0.0000	142.0031

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	0.0431	0.8910	0.6941	9.2000e-004		0.0360	0.0360		0.0360	0.0360	0.0000	80.7170	80.7170	0.0261	0.0000	81.3697
Total	0.0431	0.8910	0.6941	9.2000e-004		0.0360	0.0360		0.0360	0.0360	0.0000	80.7170	80.7170	0.0261	0.0000	81.3697

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	6.5200e-003	0.2206	0.0558	5.7000e-004	0.0143	4.5000e-004	0.0147	4.1200e-003	4.3000e-004	4.5500e-003	0.0000	55.0685	55.0685	3.5500e-003	0.0000	55.1573
Worker	0.0377	0.0280	0.3166	9.6000e-004	0.0995	7.5000e-004	0.1003	0.0264	6.9000e-004	0.0271	0.0000	86.7875	86.7875	2.3400e-003	0.0000	86.8459
Total	0.0442	0.2486	0.3724	1.5300e-003	0.1138	1.2000e-003	0.1150	0.0306	1.1200e-003	0.0317	0.0000	141.8560	141.8560	5.8900e-003	0.0000	142.0031

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1512	0.1595	2.5000e-004		7.9500e-003	7.9500e-003		7.3900e-003	7.3900e-003	0.0000	21.1331	21.1331	6.1600e-003	0.0000	21.2869

Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0164	0.1512	0.1595	2.5000e-004		7.9500e-003	7.9500e-003		7.3900e-003	7.3900e-003	0.0000	21.1331	21.1331	6.1600e-003	0.0000	21.2869

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	1.6800e-003	1.2500e-003	0.0141	4.0000e-005	4.4400e-003	3.0000e-005	4.4800e-003	1.1800e-003	3.0000e-005	1.2100e-003	0.0000	3.8744	3.8744	1.0000e-004	0.0000	3.8771
Total	1.6800e-003	1.2500e-003	0.0141	4.0000e-005	4.4400e-003	3.0000e-005	4.4800e-003	1.1800e-003	3.0000e-005	1.2100e-003	0.0000	3.8744	3.8744	1.0000e-004	0.0000	3.8771

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	8.9000e-003	0.1884	0.1553	2.5000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003	0.0000	21.1330	21.1330	6.1600e-003	0.0000	21.2869
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.0800e-003	0.1884	0.1553	2.5000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003	0.0000	21.1330	21.1330	6.1600e-003	0.0000	21.2869

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	1.6800e-003	1.2500e-003	0.0141	4.0000e-005	4.4400e-003	3.0000e-005	4.4800e-003	1.1800e-003	3.0000e-005	1.2100e-003	0.0000	3.8744	3.8744	1.0000e-004	0.0000	3.8771
Total	1.6800e-003	1.2500e-003	0.0141	4.0000e-005	4.4400e-003	3.0000e-005	4.4800e-003	1.1800e-003	3.0000e-005	1.2100e-003	0.0000	3.8744	3.8744	1.0000e-004	0.0000	3.8771

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1243	0.1477	2.4000e-004		6.2200e-003	6.2200e-003		5.7900e-003	5.7900e-003	0.0000	19.7334	19.7334	5.7500e-003	0.0000	19.8771
Paving	1.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0138	0.1243	0.1477	2.4000e-004		6.2200e-003	6.2200e-003		5.7900e-003	5.7900e-003	0.0000	19.7334	19.7334	5.7500e-003	0.0000	19.8771

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
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Worker	1.4800e-003	1.0500e-003	0.0122	4.0000e-005	4.1500e-003	3.0000e-005	4.1800e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.4866	3.4866	9.0000e-005	0.0000	3.4888
Total	1.4800e-003	1.0500e-003	0.0122	4.0000e-005	4.1500e-003	3.0000e-005	4.1800e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.4866	3.4866	9.0000e-005	0.0000	3.4888

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9300e-003	0.0344	0.0409	7.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	5.7448	5.7448	3.9000e-004	0.0000	5.7547
Total	0.1114	0.0344	0.0409	7.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	5.7448	5.7448	3.9000e-004	0.0000	5.7547

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	1.5900e-003	1.1800e-003	0.0134	4.0000e-005	4.2000e-003	3.0000e-005	4.2300e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.6592	3.6592	1.0000e-004	0.0000	3.6617
Total	1.5900e-003	1.1800e-003	0.0134	4.0000e-005	4.2000e-003	3.0000e-005	4.2300e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.6592	3.6592	1.0000e-004	0.0000	3.6617

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	0.1065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0529	0.0412	7.0000e-005		2.1400e-003	2.1400e-003		2.1400e-003	2.1400e-003	0.0000	5.7448	5.7448	3.9000e-004	0.0000	5.7547
Total	0.1090	0.0529	0.0412	7.0000e-005		2.1400e-003	2.1400e-003		2.1400e-003	2.1400e-003	0.0000	5.7448	5.7448	3.9000e-004	0.0000	5.7547

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	1.5900e-003	1.1800e-003	0.0134	4.0000e-005	4.2000e-003	3.0000e-005	4.2300e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.6592	3.6592	1.0000e-004	0.0000	3.6617
Total	1.5900e-003	1.1800e-003	0.0134	4.0000e-005	4.2000e-003	3.0000e-005	4.2300e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.6592	3.6592	1.0000e-004	0.0000	3.6617

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr						
Archit. Coating	0.0994					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	4.3000e-003	0.0296	0.0381	6.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	0.1037	0.0296	0.0381	6.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive 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	1.3900e-003	9.9000e-004	0.0115	4.0000e-005	3.9200e-003	3.0000e-005	3.9500e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.2929	3.2929	8.0000e-005	0.0000	3.2950
Total	1.3900e-003	9.9000e-004	0.0115	4.0000e-005	3.9200e-003	3.0000e-005	3.9500e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.2929	3.2929	8.0000e-005	0.0000	3.2950

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive 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	0.0994					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3900e-003	0.0494	0.0385	6.0000e-005		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706

Total	0.1018	0.0494	0.0385	6.0000e-005		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
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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	1.3900e-003	9.9000e-004	0.0115	4.0000e-005	3.9200e-003	3.0000e-005	3.9500e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.2929	3.2929	8.0000e-005	0.0000	3.2950
Total	1.3900e-003	9.9000e-004	0.0115	4.0000e-005	3.9200e-003	3.0000e-005	3.9500e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.2929	3.2929	8.0000e-005	0.0000	3.2950

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1931	0.8926	2.4708	9.5000e-003	0.8247	6.8900e-003	0.8316	0.2210	6.4100e-003	0.2274	0.0000	878.5719	878.5719	0.0407	0.0000	879.5895
Unmitigated	0.1931	0.8926	2.4708	9.5000e-003	0.8247	6.8900e-003	0.8316	0.2210	6.4100e-003	0.2274	0.0000	878.5719	878.5719	0.0407	0.0000	879.5895

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	442.33	442.33	416.06	1,498,685	1,498,685
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	380.97	380.97	188.77	672,585	672,585
Total	823.30	823.30	604.83	2,171,270	2,171,270

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid 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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Enclosed Parking with Elevator	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Parking Lot	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Strip Mall	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	419.0187	419.0187	9.9000e-003	2.0500e-003	419.8763
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	419.0187	419.0187	9.9000e-003	2.0500e-003	419.8763
NaturalGas Mitigated	3.6100e-003	0.0309	0.0135	2.0000e-004		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	35.7301	35.7301	6.8000e-004	6.6000e-004	35.9424
NaturalGas Unmitigated	3.6100e-003	0.0309	0.0135	2.0000e-004		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	35.7301	35.7301	6.8000e-004	6.6000e-004	35.9424

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	654403	3.5300e-003	0.0302	0.0128	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	34.9214	34.9214	6.7000e-004	6.4000e-004	35.1289
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	15153.6	8.0000e-005	7.4000e-004	6.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8087	0.8087	2.0000e-005	1.0000e-005	0.8135
Total		3.6100e-003	0.0309	0.0135	1.9000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.7301	35.7301	6.9000e-004	6.5000e-004	35.9424

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	654403	3.5300e-003	0.0302	0.0128	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	34.9214	34.9214	6.7000e-004	6.4000e-004	35.1289
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	15153.6	8.0000e-005	7.4000e-004	6.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8087	0.8087	2.0000e-005	1.0000e-005	0.8135
Total		3.6100e-003	0.0309	0.0135	1.9000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.7301	35.7301	6.9000e-004	6.5000e-004	35.9424

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	281166	156.5985	3.7000e-003	7.7000e-004	156.9190
Enclosed Parking with Elevator	342224	190.6056	4.5000e-003	9.3000e-004	190.9957
Parking Lot	4200	2.3392	6.0000e-005	1.0000e-005	2.3440
Strip Mall	124740	69.4754	1.6400e-003	3.4000e-004	69.6176
Total		419.0187	9.9000e-003	2.0500e-003	419.8763

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	281166	156.5985	3.7000e-003	7.7000e-004	156.9190
Enclosed Parking with Elevator	342224	190.6056	4.5000e-003	9.3000e-004	190.9957
Parking Lot	4200	2.3392	6.0000e-005	1.0000e-005	2.3440
Strip Mall	124740	69.4754	1.6400e-003	3.4000e-004	69.6176
Total		419.0187	9.9000e-003	2.0500e-003	419.8763

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2592	0.0210	0.7401	1.2000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	15.6929	15.6929	1.4400e-003	2.7000e-004	15.8081
Unmitigated	0.2592	0.0210	0.7401	1.2000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	15.6929	15.6929	1.4400e-003	2.7000e-004	15.8081

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	0.0206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2149					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.4600e-003	0.0125	5.3200e-003	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.4923	14.4923	2.8000e-004	2.7000e-004	14.5784
Landscaping	0.0223	8.4600e-003	0.7347	4.0000e-005		4.0600e-003	4.0600e-003		4.0600e-003	4.0600e-003	0.0000	1.2006	1.2006	1.1600e-003	0.0000	1.2297
Total	0.2592	0.0210	0.7401	1.2000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	15.6929	15.6929	1.4400e-003	2.7000e-004	15.8081

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	0.0206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2149					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.4600e-003	0.0125	5.3200e-003	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.4923	14.4923	2.8000e-004	2.7000e-004	14.5784
Landscaping	0.0223	8.4600e-003	0.7347	4.0000e-005		4.0600e-003	4.0600e-003		4.0600e-003	4.0600e-003	0.0000	1.2006	1.2006	1.1600e-003	0.0000	1.2297
Total	0.2592	0.0210	0.7401	1.2000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	15.6929	15.6929	1.4400e-003	2.7000e-004	15.8081

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

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	51.5398	0.1396	3.5100e-003	56.0773
Unmitigated	60.8382	0.1744	4.3700e-003	66.5028

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.62594 / 2.91635	53.0617	0.1520	3.8100e-003	57.9964
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

Strip Mall	0.68443 / 0.419489	7.7765	0.0225	5.6000e- 004	8.5065
Total		60.8382	0.1744	4.3700e- 003	66.5028

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.70075 / 2.73845	44.9578	0.1216	3.0600e- 003	48.9106
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.547544 / 0.393901	6.5820	0.0180	4.5000e- 004	7.1667
Total		51.5398	0.1396	3.5100e- 003	56.0773

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	4.2994	0.2541	0.0000	10.6515
Unmitigated	8.5987	0.5082	0.0000	21.3029

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	32.66	6.6297	0.3918	0.0000	16.4248
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	9.7	1.9690	0.1164	0.0000	4.8781
Total		8.5987	0.5082	0.0000	21.3029

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	16.33	3.3148	0.1959	0.0000	8.2124
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

Strip Mall	4.85	0.9845	0.0582	0.0000	2.4391
Total		4.2994	0.2541	0.0000	10.6515

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Projected Summer

7617 Santa Monica Blvd - Project - South Coast Air Basin, Summer

7617 Santa Monica Blvd - 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	146.00	Space	0.00	58,400.00	0
Parking Lot	30.00	Space	0.27	12,000.00	0
Apartments Mid Rise	71.00	Dwelling Unit	0.45	48,975.00	111
Strip Mall	9.24	1000sqft	0.00	9,240.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year	2023		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 4-story mixed use building would feature apartment units and commercial retail and restaurant uses

Construction Phase - Anticipated construction schedule to start October 2019 and would last approximately 30 months.

Off-road Equipment - No cranes

Trips and VMT - Disposal site: Sunshine Canyon approximately 21.5 miles from the site

Demolition - 4,000 cubic yards (1,080 tons) of debris removed during demolition

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	5.00	87.00
tblConstructionPhase	NumDays	100.00	391.00
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	2.00	109.00
tblConstructionPhase	NumDays	5.00	87.00
tblConstructionPhase	NumDays	1.00	21.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	10.50	0.50
tblGrading	MaterialExported	0.00	12,500.00
tblGrading	MaterialExported	0.00	12,500.00
tblLandUse	LandUseSquareFeet	71,000.00	48,975.00
tblLandUse	LotAcreage	1.31	0.00
tblLandUse	LotAcreage	1.87	0.45
tblLandUse	LotAcreage	0.21	0.00
tblLandUse	Population	203.00	111.00
tblTripsAndVMT	HaulingTripLength	20.00	43.00
tblTripsAndVMT	HaulingTripLength	20.00	43.00
tblTripsAndVMT	HaulingTripLength	20.00	43.00
tblTripsAndVMT	HaulingTripNumber	1,563.00	1,562.00
tblTripsAndVMT	HaulingTripNumber	1,563.00	1,562.00
tblVehicleTrips	ST_TR	6.39	6.23
tblVehicleTrips	ST_TR	42.04	41.23
tblVehicleTrips	WD_TR	6.65	6.23
tblVehicleTrips	WD_TR	44.32	41.23
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	NumberNoncatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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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					
2019	1.9629	48.0923	12.8509	0.1270	3.0262	0.5712	3.5974	0.9881	0.5451	1.5332	0.0000	13,670.7065	13,670.7065	1.1190	0.0000	13,698.6812
2020	1.1305	14.9141	10.2915	0.0353	1.5183	0.4952	2.0135	0.6180	0.4724	1.0904	0.0000	3,671.5511	3,671.5511	0.3746	0.0000	3,680.9168
2021	5.8269	8.3401	10.2216	0.0232	1.0733	0.4504	1.4334	0.2877	0.4253	0.6192	0.0000	2,322.2028	2,322.2028	0.3313	0.0000	2,330.3695
2022	5.7290	7.4122	10.0636	0.0180	0.3912	0.3806	0.7718	0.1038	0.3601	0.4639	0.0000	1,690.8147	1,690.8147	0.3295	0.0000	1,699.0520
Maximum	5.8269	48.0923	12.8509	0.1270	3.0262	0.5712	3.5974	0.9881	0.5451	1.5332	0.0000	13,670.7065	13,670.7065	1.1190	0.0000	13,698.6812

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					
2019	1.5512	47.7938	14.5681	0.1270	2.8834	0.4358	3.2969	0.7846	0.4343	1.1906	0.0000	13,670.7065	13,670.7065	1.1190	0.0000	13,698.6812
2020	0.8460	17.4089	10.3882	0.0353	1.0733	0.4297	1.4809	0.3644	0.4284	0.7928	0.0000	3,671.5511	3,671.5511	0.3746	0.0000	3,680.9168
2021	5.3959	10.8209	10.0688	0.0232	1.0733	0.4023	1.4178	0.2877	0.4020	0.6315	0.0000	2,322.2028	2,322.2028	0.3313	0.0000	2,330.3695

2022	5.3868	10.8117	9.9505	0.0180	0.3912	0.4022	0.7934	0.1038	0.4020	0.5057	0.0000	1,690.8147	1,690.8147	0.3295	0.0000	1,699.0520
Maximum	5.3959	47.7938	14.5681	0.1270	2.8834	0.4358	3.2969	0.7846	0.4343	1.1906	0.0000	13,670.7065	13,670.7065	1.1190	0.0000	13,698.6812

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.03	-10.25	-3.56	0.00	9.78	11.99	10.58	22.88	7.56	15.81	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	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385
Energy	0.0198	0.1693	0.0737	1.0800e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1400e-003	3.9600e-003	217.0943
Mobile	1.1816	4.9022	14.6149	0.0560	4.7531	0.0390	4.7921	1.2715	0.0363	1.3078		5,700.3679	5,700.3679	0.2557		5,706.7612
Total	2.7872	6.1403	20.9925	0.0637	4.7531	0.1661	4.9192	1.2715	0.1634	1.4349	0.0000	7,204.7675	7,204.7675	0.2946	0.0274	7,220.2940

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385
Energy	0.0198	0.1693	0.0737	1.0800e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1400e-003	3.9600e-003	217.0943

Mobile	1.1816	4.9022	14.6149	0.0560	4.7531	0.0390	4.7921	1.2715	0.0363	1.3078		5,700.3679	5,700.3679	0.2557		5,706.7612
Total	2.7872	6.1403	20.9925	0.0637	4.7531	0.1661	4.9192	1.2715	0.1634	1.4349	0.0000	7,204.7675	7,204.7675	0.2946	0.0274	7,220.2940

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2019	10/31/2019	5	23	
2	Site Preparation	Site Preparation	11/1/2019	11/30/2019	5	21	
3	Grading	Grading	12/2/2019	4/30/2020	5	109	
4	Building Construction	Building Construction	5/1/2020	10/31/2021	5	391	
5	Paving	Paving	11/1/2021	3/1/2022	5	87	
6	Architectural Coating	Architectural Coating	11/1/2021	3/1/2022	5	87	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.27

Residential Indoor: 99,174; Residential Outdoor: 33,058; Non-Residential Indoor: 13,860; Non-Residential Outdoor: 4,620; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	107.00	14.70	6.90	43.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	1,562.00	14.70	6.90	43.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,562.00	14.70	6.90	43.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	84.00	21.00	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
Architectural Coating	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					
Fugitive Dust					1.0048	0.0000	1.0048	0.1521	0.0000	0.1521			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	1.0048	0.5371	1.5419	0.1521	0.5125	0.6646		1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.0763	2.4492	0.5308	7.3000e-003	0.1746	0.0108	0.1854	0.0478	0.0103	0.0582		790.9795	790.9795	0.0508		792.2488
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	0.0486	0.0340	0.4479	1.1900e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		118.0362	118.0362	3.7000e-003		118.1286
Total	0.1248	2.4832	0.9787	8.4900e-003	0.2864	0.0117	0.2980	0.0775	0.0111	0.0886		909.0156	909.0156	0.0545		910.3774

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					0.3919	0.0000	0.3919	0.0593	0.0000	0.0593			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.4844	10.3677	7.9381	0.0120	0.3919	0.4017	0.7936	0.0593	0.4017	0.4610	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.0763	2.4492	0.5308	7.3000e-003	0.1746	0.0108	0.1854	0.0478	0.0103	0.0582		790.9795	790.9795	0.0508		792.2488
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	0.0486	0.0340	0.4479	1.1900e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		118.0362	118.0362	3.7000e-003		118.1286
Total	0.1248	2.4832	0.9787	8.4900e-003	0.2864	0.0117	0.2980	0.0775	0.0111	0.0886		909.0156	909.0156	0.0545		910.3774

3.3 Site Preparation - 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					
Fugitive Dust					0.0926	0.0000	0.0926	0.0129	0.0000	0.0129			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378		965.1690	965.1690	0.3054		972.8032
Total	0.7195	8.9170	4.1407	9.7500e-003	0.0926	0.3672	0.4598	0.0129	0.3378	0.3508		965.1690	965.1690	0.3054		972.8032

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	1.2191	39.1584	8.4862	0.1167	2.7914	0.1726	2.9640	0.7647	0.1651	0.9298		12,646.5194	12,646.5194	0.8118		12,666.8136
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	0.0243	0.0170	0.2240	5.9000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		59.0181	59.0181	1.8500e-003		59.0643
Total	1.2433	39.1753	8.7102	0.1173	2.8473	0.1730	3.0203	0.7796	0.1655	0.9451		12,705.5375	12,705.5375	0.8136		12,725.8779

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					0.0361	0.0000	0.0361	5.0400e-003	0.0000	5.0400e-003			0.0000			0.0000
Off-Road	0.3079	8.6185	5.8579	9.7500e-003		0.2405	0.2405		0.2405	0.2405	0.0000	965.1690	965.1690	0.3054		972.8032
Total	0.3079	8.6185	5.8579	9.7500e-003	0.0361	0.2405	0.2766	5.0400e-003	0.2405	0.2456	0.0000	965.1690	965.1690	0.3054		972.8032

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	1.2191	39.1584	8.4862	0.1167	2.7914	0.1726	2.9640	0.7647	0.1651	0.9298		12,646.5194	12,646.5194	0.8118		12,666.8136
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	0.0243	0.0170	0.2240	5.9000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		59.0181	59.0181	1.8500e-003		59.0643
Total	1.2433	39.1753	8.7102	0.1173	2.8473	0.1730	3.0203	0.7796	0.1655	0.9451		12,705.5375	12,705.5375	0.8136		12,725.8779

3.4 Grading - 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					
Fugitive Dust					0.7657	0.0000	0.7657	0.4157	0.0000	0.4157			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.7657	0.5371	1.3028	0.4157	0.5125	0.9282		1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.2349	7.5443	1.6350	0.0225	2.1487	0.0333	2.1819	0.5427	0.0318	0.5745		2,436.4854	2,436.4854	0.1564		2,440.3953

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	0.0486	0.0340	0.4479	1.1900e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		118.0362	118.0362	3.7000e-003		118.1286
Total	0.2834	7.5783	2.0829	0.0237	2.2604	0.0341	2.2946	0.5724	0.0326	0.6050		2,554.5216	2,554.5216	0.1601		2,558.5239

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					0.2986	0.0000	0.2986	0.1621	0.0000	0.1621			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.4844	10.3677	7.9381	0.0120	0.2986	0.4017	0.7003	0.1621	0.4017	0.5638	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.2349	7.5443	1.6350	0.0225	2.1487	0.0333	2.1819	0.5427	0.0318	0.5745		2,436.4854	2,436.4854	0.1564		2,440.3953
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	0.0486	0.0340	0.4479	1.1900e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		118.0362	118.0362	3.7000e-003		118.1286
Total	0.2834	7.5783	2.0829	0.0237	2.2604	0.0341	2.2946	0.5724	0.0326	0.6050		2,554.5216	2,554.5216	0.1601		2,558.5239

3.4 Grading - 2020

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					0.7657	0.0000	0.7657	0.4157	0.0000	0.4157			0.0000				0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169			1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7657	0.4672	1.2329	0.4157	0.4457	0.8614		1,147.2352	1,147.2352	0.2169			1,152.6578

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	0.2182	7.0110	1.5993	0.0222	0.6408	0.0271	0.6679	0.1726	0.0259	0.1985		2,409.9322	2,409.9322	0.1544			2,413.7930
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	0.0449	0.0303	0.4076	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		114.3836	114.3836	3.3000e-003			114.4660
Total	0.2631	7.0413	2.0069	0.0234	0.7526	0.0280	0.7805	0.2023	0.0267	0.2290		2,524.3158	2,524.3158	0.1577			2,528.2590

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					0.2986	0.0000	0.2986	0.1621	0.0000	0.1621			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.4844	10.3677	7.9381	0.0120	0.2986	0.4017	0.7003	0.1621	0.4017	0.5638	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

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	0.2182	7.0110	1.5993	0.0222	0.6408	0.0271	0.6679	0.1726	0.0259	0.1985		2,409.9322	2,409.9322	0.1544		2,413.7930
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	0.0449	0.0303	0.4076	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		114.3836	114.3836	3.3000e-003		114.4660
Total	0.2631	7.0413	2.0069	0.0234	0.7526	0.0280	0.7805	0.2023	0.0267	0.2290		2,524.3158	2,524.3158	0.1577		2,528.2590

3.5 Building Construction - 2020

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	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424

Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424
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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	0.0697	2.2118	0.5380	5.3600e-003	0.1344	0.0110	0.1453	0.0387	0.0105	0.0492		572.8618	572.8618	0.0367		573.7784
Worker	0.3768	0.2547	3.4237	9.6500e-003	0.9389	7.1600e-003	0.9461	0.2490	6.6000e-003	0.2556		960.8225	960.8225	0.0277		961.5148
Total	0.4465	2.4665	3.9617	0.0150	1.0733	0.0181	1.0914	0.2877	0.0171	0.3048		1,533.6843	1,533.6843	0.0644		1,535.2932

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	0.3995	8.2502	6.4265	8.5000e-003		0.3335	0.3335		0.3335	0.3335	0.0000	823.5833	823.5833	0.2664		830.2424
Total	0.3995	8.2502	6.4265	8.5000e-003		0.3335	0.3335		0.3335	0.3335	0.0000	823.5833	823.5833	0.2664		830.2424

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	0.0697	2.2118	0.5380	5.3600e-003	0.1344	0.0110	0.1453	0.0387	0.0105	0.0492		572.8618	572.8618	0.0367			573.7784
Worker	0.3768	0.2547	3.4237	9.6500e-003	0.9389	7.1600e-003	0.9461	0.2490	6.6000e-003	0.2556		960.8225	960.8225	0.0277			961.5148
Total	0.4465	2.4665	3.9617	0.0150	1.0733	0.0181	1.0914	0.2877	0.0171	0.3048		1,533.6843	1,533.6843	0.0644			1,535.2932

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.5685	5.5603	6.2723	8.5100e-003		0.3491	0.3491		0.3212	0.3212		823.8464	823.8464	0.2665			830.5076
Total	0.5685	5.5603	6.2723	8.5100e-003		0.3491	0.3491		0.3212	0.3212		823.8464	823.8464	0.2665			830.5076

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
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0591	2.0111	0.4883	5.3100e-003	0.1344	4.1100e-003	0.1385	0.0387	3.9300e-003	0.0426	568.5619	568.5619	0.0352	569.4408		
Worker	0.3516	0.2293	3.1539	9.3300e-003	0.9389	6.9500e-003	0.9459	0.2490	6.4000e-003	0.2554	929.7946	929.7946	0.0251	930.4211		
Total	0.4106	2.2404	3.6423	0.0146	1.0733	0.0111	1.0844	0.2877	0.0103	0.2980	1,498.3564	1,498.3564	0.0602	1,499.8619		

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	0.3995	8.2502	6.4265	8.5100e-003		0.3335	0.3335		0.3335	0.3335	0.0000	823.8464	823.8464	0.2665		830.5076
Total	0.3995	8.2502	6.4265	8.5100e-003		0.3335	0.3335		0.3335	0.3335	0.0000	823.8464	823.8464	0.2665		830.5076

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	0.0591	2.0111	0.4883	5.3100e-003	0.1344	4.1100e-003	0.1385	0.0387	3.9300e-003	0.0426	568.5619	568.5619	0.0352			569.4408

Worker	0.3516	0.2293	3.1539	9.3300e-003	0.9389	6.9500e-003	0.9459	0.2490	6.4000e-003	0.2554		929.7946	929.7946	0.0251		930.4211
Total	0.4106	2.2404	3.6423	0.0146	1.0733	0.0111	1.0844	0.2877	0.0103	0.2980		1,498.3564	1,498.3564	0.0602		1,499.8619

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	8.1300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7295	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818

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	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759
Total	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759

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	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	8.1300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4035	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.3425	1,035.3425	0.3016		1,042.8818

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	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759
Total	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	8.1300e-003					0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Total	0.6551	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	1,035.8246	1,035.8246	0.3017		1,043.3677

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	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287
Total	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287

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	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	8.1300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Total	0.4035	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
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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	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287
Total	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.7320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	4.9509	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0712	0.0464	0.6383	1.8900e-003	0.1900	1.4100e-003	0.1914	0.0504	1.3000e-003	0.0517		188.1727	188.1727	5.0700e-003		188.2995
Total	0.0712	0.0464	0.6383	1.8900e-003	0.1900	1.4100e-003	0.1914	0.0504	1.3000e-003	0.0517		188.1727	188.1727	5.0700e-003		188.2995

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	4.7320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	4.8459	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0712	0.0464	0.6383	1.8900e-003	0.1900	1.4100e-003	0.1914	0.0504	1.3000e-003	0.0517		188.1727	188.1727	5.0700e-003		188.2995
Total	0.0712	0.0464	0.6383	1.8900e-003	0.1900	1.4100e-003	0.1914	0.0504	1.3000e-003	0.0517		188.1727	188.1727	5.0700e-003		188.2995

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.7320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	4.9365	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.0667	0.0419	0.5903	1.8200e-003	0.1900	1.3700e-003	0.1914	0.0504	1.2600e-003	0.0517		181.4347	181.4347	4.5800e-003		181.5494

Total	0.0667	0.0419	0.5903	1.8200e-003	0.1900	1.3700e-003	0.1914	0.0504	1.2600e-003	0.0517		181.4347	181.4347	4.5800e-003		181.5494
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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	4.7320					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183			281.9062
Total	4.8459	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183			281.9062

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	0.0667	0.0419	0.5903	1.8200e-003	0.1900	1.3700e-003	0.1914	0.0504	1.2600e-003	0.0517		181.4347	181.4347	4.5800e-003			181.5494
Total	0.0667	0.0419	0.5903	1.8200e-003	0.1900	1.3700e-003	0.1914	0.0504	1.2600e-003	0.0517		181.4347	181.4347	4.5800e-003			181.5494

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1816	4.9022	14.6149	0.0560	4.7531	0.0390	4.7921	1.2715	0.0363	1.3078		5,700.3679	5,700.3679	0.2557		5,706.7612
Unmitigated	1.1816	4.9022	14.6149	0.0560	4.7531	0.0390	4.7921	1.2715	0.0363	1.3078		5,700.3679	5,700.3679	0.2557		5,706.7612

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	442.33	442.33	416.06	1,498,685	1,498,685
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	380.97	380.97	188.77	672,585	672,585
Total	823.30	823.30	604.83	2,171,270	2,171,270

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid 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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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Apartments Mid Rise	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Enclosed Parking with Elevator	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Parking Lot	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Strip Mall	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0198	0.1693	0.0737	1.0800e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1400e-003	3.9600e-003	217.0943
NaturalGas Unmitigated	0.0198	0.1693	0.0737	1.0800e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1400e-003	3.9600e-003	217.0943

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1792.88	0.0193	0.1652	0.0703	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.9276	210.9276	4.0400e-003	3.8700e-003	212.1810

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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	41.5167	4.5000e-004	4.0700e-003	3.4200e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8843	4.8843	9.0000e-005	9.0000e-005	4.9133
Total		0.0198	0.1693	0.0737	1.0700e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1300e-003	3.9600e-003	217.0943

Mitigated

Land Use	Natural Gas 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
	kBTU/yr	lb/day										lb/day					
Apartment Mid Rise	1.79288	0.0193	0.1652	0.0703	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.9276	210.9276	4.0400e-003	3.8700e-003	212.1810
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.0415167	4.5000e-004	4.0700e-003	3.4200e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8843	4.8843	9.0000e-005	9.0000e-005	4.9133
Total		0.0198	0.1693	0.0737	1.0700e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1300e-003	3.9600e-003	217.0943

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385
Unmitigated	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1172	1.0011	0.4260	6.3900e-003		0.0809	0.0809		0.0809	0.0809	0.0000	1,278.0000	1,278.0000	0.0245	0.0234	1,285.5945
Landscaping	0.1783	0.0677	5.8778	3.1000e-004		0.0325	0.0325		0.0325	0.0325		10.5878	10.5878	0.0103		10.8440
Total	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1172	1.0011	0.4260	6.3900e-003		0.0809	0.0809		0.0809	0.0809	0.0000	1,278.0000	1,278.0000	0.0245	0.0234	1,285.5945
Landscaping	0.1783	0.0677	5.8778	3.1000e-004		0.0325	0.0325		0.0325	0.0325		10.5878	10.5878	0.0103		10.8440
Total	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Projected Winter

7617 Santa Monica Blvd - Project - South Coast Air Basin, Winter

7617 Santa Monica Blvd - 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	146.00	Space	0.00	58,400.00	0
Parking Lot	30.00	Space	0.27	12,000.00	0
Apartments Mid Rise	71.00	Dwelling Unit	0.45	48,975.00	111
Strip Mall	9.24	1000sqft	0.00	9,240.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year	2023		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 4-story mixed use building would feature apartment units and commercial retail and restaurant uses

Construction Phase - Anticipated construction schedule to start October 2019 and would last approximately 30 months.

Off-road Equipment - No cranes

Trips and VMT - Disposal site: Sunshine Canyon approximately 21.5 miles from the site

Demolition - 4,000 cubic yards (1,080 tons) of debris removed during demolition

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	5.00	87.00
tblConstructionPhase	NumDays	100.00	391.00
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	2.00	109.00
tblConstructionPhase	NumDays	5.00	87.00
tblConstructionPhase	NumDays	1.00	21.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	10.50	0.50
tblGrading	MaterialExported	0.00	12,500.00
tblGrading	MaterialExported	0.00	12,500.00
tblLandUse	LandUseSquareFeet	71,000.00	48,975.00
tblLandUse	LotAcreage	1.31	0.00
tblLandUse	LotAcreage	1.87	0.45
tblLandUse	LotAcreage	0.21	0.00
tblLandUse	Population	203.00	111.00
tblTripsAndVMT	HaulingTripLength	20.00	43.00
tblTripsAndVMT	HaulingTripLength	20.00	43.00
tblTripsAndVMT	HaulingTripLength	20.00	43.00
tblTripsAndVMT	HaulingTripNumber	1,563.00	1,562.00
tblTripsAndVMT	HaulingTripNumber	1,563.00	1,562.00
tblVehicleTrips	ST_TR	6.39	6.23
tblVehicleTrips	ST_TR	42.04	41.23
tblVehicleTrips	WD_TR	6.65	6.23
tblVehicleTrips	WD_TR	44.32	41.23
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	NumberNoncatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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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					
2019	1.9822	49.0771	13.1301	0.1260	3.0262	0.5715	3.5977	0.9881	0.5454	1.5335	0.0000	13,560.6342	13,560.6342	1.1370	0.0000	13,589.0590
2020	1.1379	15.0905	10.0304	0.0351	1.5183	0.4954	2.0137	0.6180	0.4726	1.0906	0.0000	3,643.8352	3,643.8352	0.3777	0.0000	3,653.2772
2021	5.8418	8.3495	10.0969	0.0224	1.0733	0.4504	1.4336	0.2877	0.4253	0.6193	0.0000	2,248.9783	2,248.9783	0.3307	0.0000	2,257.1652
2022	5.7434	7.4207	9.9465	0.0178	0.3912	0.3806	0.7718	0.1038	0.3601	0.4639	0.0000	1,667.6152	1,667.6152	0.3289	0.0000	1,675.8371
Maximum	5.8418	49.0771	13.1301	0.1260	3.0262	0.5715	3.5977	0.9881	0.5454	1.5335	0.0000	13,560.6342	13,560.6342	1.1370	0.0000	13,589.0590

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					
2019	1.5705	48.7786	14.8472	0.1260	2.8834	0.4361	3.2985	0.7846	0.4346	1.1921	0.0000	13,560.6342	13,560.6342	1.1370	0.0000	13,589.0590
2020	0.8869	17.5853	10.1271	0.0351	1.0733	0.4299	1.4811	0.3644	0.4286	0.7930	0.0000	3,643.8352	3,643.8352	0.3777	0.0000	3,653.2772
2021	5.4108	10.8303	9.9247	0.0224	1.0733	0.4023	1.4180	0.2877	0.4020	0.6316	0.0000	2,248.9783	2,248.9783	0.3307	0.0000	2,257.1652

2022	5.4012	10.8202	9.8333	0.0178	0.3912	0.4022	0.7934	0.1038	0.4020	0.5057	0.0000	1,667.6152	1,667.6152	0.3289	0.0000	1,675.8371
Maximum	5.4108	48.7786	14.8472	0.1260	2.8834	0.4361	3.2985	0.7846	0.4346	1.1921	0.0000	13,560.6342	13,560.6342	1.1370	0.0000	13,589.0590

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	9.76	-10.10	-3.54	0.00	9.78	11.99	10.56	22.88	7.55	15.77	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	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385
Energy	0.0198	0.1693	0.0737	1.0800e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1400e-003	3.9600e-003	217.0943
Mobile	1.1297	4.9912	13.8166	0.0531	4.7531	0.0392	4.7923	1.2715	0.0365	1.3080		5,409.0669	5,409.0669	0.2560		5,415.4676
Total	2.7353	6.2293	20.1942	0.0608	4.7531	0.1663	4.9194	1.2715	0.1636	1.4351	0.0000	6,913.4665	6,913.4665	0.2949	0.0274	6,929.0005

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385
Energy	0.0198	0.1693	0.0737	1.0800e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1400e-003	3.9600e-003	217.0943

Mobile	1.1297	4.9912	13.8166	0.0531	4.7531	0.0392	4.7923	1.2715	0.0365	1.3080		5,409.0669	5,409.0669	0.2560		5,415.4676
Total	2.7353	6.2293	20.1942	0.0608	4.7531	0.1663	4.9194	1.2715	0.1636	1.4351	0.0000	6,913.4665	6,913.4665	0.2949	0.0274	6,929.0005

	ROG	NOx	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2019	10/31/2019	5	23	
2	Site Preparation	Site Preparation	11/1/2019	11/30/2019	5	21	
3	Grading	Grading	12/2/2019	4/30/2020	5	109	
4	Building Construction	Building Construction	5/1/2020	10/31/2021	5	391	
5	Paving	Paving	11/1/2021	3/1/2022	5	87	
6	Architectural Coating	Architectural Coating	11/1/2021	3/1/2022	5	87	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.27

Residential Indoor: 99,174; Residential Outdoor: 33,058; Non-Residential Indoor: 13,860; Non-Residential Outdoor: 4,620; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	107.00	14.70	6.90	43.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	1,562.00	14.70	6.90	43.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,562.00	14.70	6.90	43.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	84.00	21.00	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
Architectural Coating	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					
Fugitive Dust					1.0048	0.0000	1.0048	0.1521	0.0000	0.1521			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	1.0048	0.5371	1.5419	0.1521	0.5125	0.6646		1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.0773	2.5107	0.5495	7.2400e-003	0.1746	0.0109	0.1855	0.0478	0.0104	0.0583		784.3239	784.3239	0.0519		785.6215
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	0.0533	0.0373	0.4070	1.1100e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		110.7167	110.7167	3.4700e-003		110.8035
Total	0.1306	2.5480	0.9565	8.3500e-003	0.2864	0.0118	0.2981	0.0775	0.0112	0.0887		895.0406	895.0406	0.0554		896.4251

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					0.3919	0.0000	0.3919	0.0593	0.0000	0.0593			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.4844	10.3677	7.9381	0.0120	0.3919	0.4017	0.7936	0.0593	0.4017	0.4610	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.0773	2.5107	0.5495	7.2400e-003	0.1746	0.0109	0.1855	0.0478	0.0104	0.0583		784.3239	784.3239	0.0519		785.6215
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	0.0533	0.0373	0.4070	1.1100e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		110.7167	110.7167	3.4700e-003		110.8035
Total	0.1306	2.5480	0.9565	8.3500e-003	0.2864	0.0118	0.2981	0.0775	0.0112	0.0887		895.0406	895.0406	0.0554		896.4251

3.3 Site Preparation - 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					
Fugitive Dust					0.0926	0.0000	0.0926	0.0129	0.0000	0.0129			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378		965.1690	965.1690	0.3054		972.8032
Total	0.7195	8.9170	4.1407	9.7500e-003	0.0926	0.3672	0.4598	0.0129	0.3378	0.3508		965.1690	965.1690	0.3054		972.8032

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	1.2360	40.1414	8.7859	0.1157	2.7914	0.1741	2.9655	0.7647	0.1666	0.9313			12,540.1068	0.8299		12,560.8540
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
Worker	0.0267	0.0187	0.2035	5.6000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152			55.3584	1.7400e-003		55.4018
Total	1.2627	40.1601	8.9894	0.1163	2.8473	0.1746	3.0219	0.7796	0.1670	0.9465			12,595.4652	0.8316		12,616.2558

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					0.0361	0.0000	0.0361	5.0400e-003	0.0000	5.0400e-003			0.0000			0.0000
Off-Road	0.3079	8.6185	5.8579	9.7500e-003		0.2405	0.2405		0.2405	0.2405	0.0000	965.1690	965.1690	0.3054		972.8032
Total	0.3079	8.6185	5.8579	9.7500e-003	0.0361	0.2405	0.2766	5.0400e-003	0.2405	0.2456	0.0000	965.1690	965.1690	0.3054		972.8032

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	1.2360	40.1414	8.7859	0.1157	2.7914	0.1741	2.9655	0.7647	0.1666	0.9313		12,540.1068	12,540.1068	0.8299		12,560.8540
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	0.0267	0.0187	0.2035	5.6000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		55.3584	55.3584	1.7400e-003		55.4018
Total	1.2627	40.1601	8.9894	0.1163	2.8473	0.1746	3.0219	0.7796	0.1670	0.9465		12,595.4652	12,595.4652	0.8316		12,616.2558

3.4 Grading - 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					
Fugitive Dust					0.7657	0.0000	0.7657	0.4157	0.0000	0.4157			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.7657	0.5371	1.3028	0.4157	0.5125	0.9282		1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.2381	7.7337	1.6927	0.0223	2.1487	0.0336	2.1822	0.5427	0.0321	0.5748		2,415.9839	2,415.9839	0.1599		2,419.9811

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	0.0533	0.0373	0.4070	1.1100e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		110.7167	110.7167	3.4700e-003		110.8035
Total	0.2915	7.7710	2.0997	0.0234	2.2604	0.0344	2.2949	0.5724	0.0329	0.6053		2,526.7006	2,526.7006	0.1634		2,530.7846

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					0.2986	0.0000	0.2986	0.1621	0.0000	0.1621			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.4844	10.3677	7.9381	0.0120	0.2986	0.4017	0.7003	0.1621	0.4017	0.5638	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.2381	7.7337	1.6927	0.0223	2.1487	0.0336	2.1822	0.5427	0.0321	0.5748		2,415.9839	2,415.9839	0.1599		2,419.9811
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	0.0533	0.0373	0.4070	1.1100e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		110.7167	110.7167	3.4700e-003		110.8035
Total	0.2915	7.7710	2.0997	0.0234	2.2604	0.0344	2.2949	0.5724	0.0329	0.6053		2,526.7006	2,526.7006	0.1634		2,530.7846

3.4 Grading - 2020

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					0.7657	0.0000	0.7657	0.4157	0.0000	0.4157			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7657	0.4672	1.2329	0.4157	0.4457	0.8614		1,147.2352	1,147.2352	0.2169		1,152.6578

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	0.2212	7.1844	1.6510	0.0220	0.6408	0.0273	0.6681	0.1726	0.0261	0.1987		2,389.3149	2,389.3149	0.1577		2,393.2571
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	0.0493	0.0333	0.3696	1.0800e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		107.2851	107.2851	3.0900e-003		107.3623
Total	0.2705	7.2177	2.0205	0.0231	0.7526	0.0282	0.7807	0.2023	0.0269	0.2292		2,496.6000	2,496.6000	0.1608		2,500.6195

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					0.2986	0.0000	0.2986	0.1621	0.0000	0.1621			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.4844	10.3677	7.9381	0.0120	0.2986	0.4017	0.7003	0.1621	0.4017	0.5638	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

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	0.2212	7.1844	1.6510	0.0220	0.6408	0.0273	0.6681	0.1726	0.0261	0.1987		2,389.3149	2,389.3149	0.1577		2,393.2571
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	0.0493	0.0333	0.3696	1.0800e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		107.2851	107.2851	3.0900e-003		107.3623
Total	0.2705	7.2177	2.0205	0.0231	0.7526	0.0282	0.7807	0.2023	0.0269	0.2292		2,496.6000	2,496.6000	0.1608		2,500.6195

3.5 Building Construction - 2020

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	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424

Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424
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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	0.0729	2.2109	0.5962	5.2100e-003	0.1344	0.0111	0.1455	0.0387	0.0106	0.0493		557.2925	557.2925	0.0392		558.2722
Worker	0.4145	0.2798	3.1045	9.0500e-003	0.9389	7.1600e-003	0.9461	0.2490	6.6000e-003	0.2556		901.1951	901.1951	0.0259		901.8436
Total	0.4874	2.4907	3.7006	0.0143	1.0733	0.0183	1.0916	0.2877	0.0172	0.3049		1,458.4876	1,458.4876	0.0651		1,460.1158

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	0.3995	8.2502	6.4265	8.5000e-003		0.3335	0.3335		0.3335	0.3335	0.0000	823.5833	823.5833	0.2664		830.2424
Total	0.3995	8.2502	6.4265	8.5000e-003		0.3335	0.3335		0.3335	0.3335	0.0000	823.5833	823.5833	0.2664		830.2424

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	0.0729	2.2109	0.5962	5.2100e-003	0.1344	0.0111	0.1455	0.0387	0.0106	0.0493		557.2925	557.2925	0.0392			558.2722
Worker	0.4145	0.2798	3.1045	9.0500e-003	0.9389	7.1600e-003	0.9461	0.2490	6.6000e-003	0.2556		901.1951	901.1951	0.0259			901.8436
Total	0.4874	2.4907	3.7006	0.0143	1.0733	0.0183	1.0916	0.2877	0.0172	0.3049		1,458.4876	1,458.4876	0.0651			1,460.1158

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.5685	5.5603	6.2723	8.5100e-003		0.3491	0.3491		0.3212	0.3212		823.8464	823.8464	0.2665			830.5076
Total	0.5685	5.5603	6.2723	8.5100e-003		0.3491	0.3491		0.3212	0.3212		823.8464	823.8464	0.2665			830.5076

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
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0621	2.0064	0.5428	5.1700e-003	0.1344	4.2400e-003	0.1386	0.0387	4.0500e-003	0.0427		553.0849	553.0849	0.0376		554.0243
Worker	0.3874	0.2518	2.8549	8.7500e-003	0.9389	6.9500e-003	0.9459	0.2490	6.4000e-003	0.2554		872.0470	872.0470	0.0235		872.6333
Total	0.4495	2.2582	3.3977	0.0139	1.0733	0.0112	1.0845	0.2877	0.0105	0.2981		1,425.1319	1,425.1319	0.0610		1,426.6576

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	0.3995	8.2502	6.4265	8.5100e-003		0.3335	0.3335		0.3335	0.3335	0.0000	823.8464	823.8464	0.2665		830.5076
Total	0.3995	8.2502	6.4265	8.5100e-003		0.3335	0.3335		0.3335	0.3335	0.0000	823.8464	823.8464	0.2665		830.5076

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	0.0621	2.0064	0.5428	5.1700e-003	0.1344	4.2400e-003	0.1386	0.0387	4.0500e-003	0.0427		553.0849	553.0849	0.0376		554.0243

Worker	0.3874	0.2518	2.8549	8.7500e-003	0.9389	6.9500e-003	0.9459	0.2490	6.4000e-003	0.2554		872.0470	872.0470	0.0235		872.6333
Total	0.4495	2.2582	3.3977	0.0139	1.0733	0.0112	1.0845	0.2877	0.0105	0.2981		1,425.1319	1,425.1319	0.0610		1,426.6576

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	8.1300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7295	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818

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	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003		186.9929
Total	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003		186.9929

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	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.3425	1,035.3425	0.3016			1,042.8818
Paving	8.1300e-003					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.4035	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.3425	1,035.3425	0.3016			1,042.8818

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	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003			186.9929
Total	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003			186.9929

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	8.1300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6551	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677

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	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897
Total	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897

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	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	8.1300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Total	0.4035	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
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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	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897
Total	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.7320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	4.9509	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0784	0.0510	0.5778	1.7700e-003	0.1900	1.4100e-003	0.1914	0.0504	1.3000e-003	0.0517		176.4857	176.4857	4.7500e-003		176.6044
Total	0.0784	0.0510	0.5778	1.7700e-003	0.1900	1.4100e-003	0.1914	0.0504	1.3000e-003	0.0517		176.4857	176.4857	4.7500e-003		176.6044

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	4.7320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	4.8459	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.0784	0.0510	0.5778	1.7700e-003	0.1900	1.4100e-003	0.1914	0.0504	1.3000e-003	0.0517		176.4857	176.4857	4.7500e-003		176.6044
Total	0.0784	0.0510	0.5778	1.7700e-003	0.1900	1.4100e-003	0.1914	0.0504	1.3000e-003	0.0517		176.4857	176.4857	4.7500e-003		176.6044

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.7320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	4.9365	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.0737	0.0460	0.5334	1.7100e-003	0.1900	1.3700e-003	0.1914	0.0504	1.2600e-003	0.0517		170.1664	170.1664	4.2900e-003		170.2736

Total	0.0737	0.0460	0.5334	1.7100e-003	0.1900	1.3700e-003	0.1914	0.0504	1.2600e-003	0.0517		170.1664	170.1664	4.2900e-003		170.2736
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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	4.7320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183		281.9062
Total	4.8459	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.0737	0.0460	0.5334	1.7100e-003	0.1900	1.3700e-003	0.1914	0.0504	1.2600e-003	0.0517		170.1664	170.1664	4.2900e-003		170.2736
Total	0.0737	0.0460	0.5334	1.7100e-003	0.1900	1.3700e-003	0.1914	0.0504	1.2600e-003	0.0517		170.1664	170.1664	4.2900e-003		170.2736

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1297	4.9912	13.8166	0.0531	4.7531	0.0392	4.7923	1.2715	0.0365	1.3080		5,409.0669	5,409.0669	0.2560		5,415.4676
Unmitigated	1.1297	4.9912	13.8166	0.0531	4.7531	0.0392	4.7923	1.2715	0.0365	1.3080		5,409.0669	5,409.0669	0.2560		5,415.4676

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	442.33	442.33	416.06	1,498,685	1,498,685
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	380.97	380.97	188.77	672,585	672,585
Total	823.30	823.30	604.83	2,171,270	2,171,270

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid 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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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Apartments Mid Rise	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Enclosed Parking with Elevator	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Parking Lot	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Strip Mall	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0198	0.1693	0.0737	1.0800e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1400e-003	3.9600e-003	217.0943
NaturalGas Unmitigated	0.0198	0.1693	0.0737	1.0800e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1400e-003	3.9600e-003	217.0943

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1792.88	0.0193	0.1652	0.0703	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.9276	210.9276	4.0400e-003	3.8700e-003	212.1810

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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	41.5167	4.5000e-004	4.0700e-003	3.4200e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8843	4.8843	9.0000e-005	9.0000e-005	4.9133
Total		0.0198	0.1693	0.0737	1.0700e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1300e-003	3.9600e-003	217.0943

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1.79288	0.0193	0.1652	0.0703	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.9276	210.9276	4.0400e-003	3.8700e-003	212.1810
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.0415167	4.5000e-004	4.0700e-003	3.4200e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8843	4.8843	9.0000e-005	9.0000e-005	4.9133
Total		0.0198	0.1693	0.0737	1.0700e-003		0.0137	0.0137		0.0137	0.0137		215.8119	215.8119	4.1300e-003	3.9600e-003	217.0943

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385
Unmitigated	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1172	1.0011	0.4260	6.3900e-003		0.0809	0.0809		0.0809	0.0809	0.0000	1,278.0000	1,278.0000	0.0245	0.0234	1,285.5945
Landscaping	0.1783	0.0677	5.8778	3.1000e-004		0.0325	0.0325		0.0325	0.0325		10.5878	10.5878	0.0103		10.8440
Total	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1172	1.0011	0.4260	6.3900e-003		0.0809	0.0809		0.0809	0.0809	0.0000	1,278.0000	1,278.0000	0.0245	0.0234	1,285.5945
Landscaping	0.1783	0.0677	5.8778	3.1000e-004		0.0325	0.0325		0.0325	0.0325		10.5878	10.5878	0.0103		10.8440
Total	1.5858	1.0688	6.3038	6.7000e-003		0.1134	0.1134		0.1134	0.1134	0.0000	1,288.5878	1,288.5878	0.0347	0.0234	1,296.4385

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
