AIR QUALITY & GREENHOUSE GAS IMPACT ASSESSMENT

FOR THE PROPOSED

DESTINO PASO RESORT HOTEL PROJECT

PASO ROBLES, CA

JULY 2016

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LIST OF COMMON TERMS & ACRONYMS

AAM	Annual Arithmetic Mean
CAAQS	California Ambient Air Quality Standards
CAP	Climate Action Plan
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CH_4	Methane
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
DPM	Diesel-Exhaust Particulate Matter or Diesel-Exhaust PM
FCAA	Federal Clean Air Act
GHG	Greenhouse Gases
HAP	Hazardous Air Pollutant
LOS	Level of Service
N_2O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards or National AAQS
NESHAPs	National Emission Standards for HAPs
NO_x	Oxides of Nitrogen
OAP	Ozone Attainment Plan
O_3	Ozone
Pb	Lead
PM	Particulate Matter
PM_{10}	Particulate Matter (less than 10 µm)
$PM_{2.5}$	Particulate Matter (less than 2.5 µm)
ppb	Parts per Billion
ppm	Parts per Million
ROG	Reactive Organic Gases
SIP	State Implementation Plan
SLOAPCD	San Luis Obispo County Air Pollution Control District
SO_2	Sulfur Dioxide
SCCAB	South Central Coast Air Basin
TAC	Toxic Air Contaminant
$\mu g/m^3$	Micrograms per cubic meter
U.S. EPA	United State Environmental Protection Agency

EXECUTIVE SUMMARY

This report provides an analysis of air quality and greenhouse gas (GHG) impacts associated with the proposed Residence Inn project. This report also provides a summary of existing conditions in the project area and the applicable regulatory framework pertaining to air quality and climate change.

The proposed project includes the construction of a total of four hotel facilities. The initial phase of construction is anticipated to begin in 2017 and would include the construction of an approximate 136-room main hotel. A second hotel, lodge, and boutique hotel totaling approximately 155 rooms, may be constructed in future years, depending on market conditions.

The project site is located adjacent to and east of Airport Road, north of State Route (SR) 46 East, within the City of Paso Robles. The nearest sensitive land use consist of residential dwellings. The nearest residences are located adjacent to and north of the project site. Additional residential dwellings, as well as, the Wine Country RV Resort are located to the south of the project site.

Construction-generated emissions associated with the initial construction of the main hotel, as well as, construction of the proposed future land uses would exceed the San Luis Obispo County Air Pollution Control District (SLOAPCD) recommended daily and quarterly significance thresholds for ROG+NO_X. In addition, uncontrolled emissions of particulate matter generated during construction may result in localized pollutant concentrations that could adversely impact nearby land uses and sensitive receptors. If uncontrolled, the demolition of onsite structures may also result in emissions of potentially hazardous emissions associated with the disturbance of building materials, including lead and asbestos. Mitigation measures have been included to reduce these potentially significant impacts to a less-than-significant level.

Unmitigated operational emissions associated with the main hotel would not exceed SLOAPCD significance thresholds. However, at project buildout, operational emissions are projected to exceed SLOAPCD's air quality significance thresholds. In addition, without mitigation, increased emissions of GHGs would not be consistent with the *City of Paso Robles Climate Action Plan*. Unmitigated emissions of criteria air pollutants and GHGs may also interfere with air quality attainment planning and GHG-reduction efforts. Mitigation measures have been included to reduce these potentially significant impacts to a less-than-significant level.

INTRODUCTION

This report provides an analysis of air quality and GHG impacts associated with the proposed Residence Inn project. This report also provides a summary of existing conditions in the project area and the applicable regulatory framework pertaining to air quality and climate change.

PROPOSED PROJECT

The proposed project includes the construction of a total of four hotel facilities. The initial phase of construction is anticipated to begin in 2017 and would include the construction of an approximate 136-room main hotel. A second hotel, lodge, and boutique hotel totaling approximately 155 rooms, may be constructed in future years, depending on market conditions. The proposed project location is illustrated in Figure 1. The proposed project site plan is illustrated in Figure 2.

The project site is located adjacent to and east of Airport Road, north of SR 46 East, within the City of Paso Robles. The nearest sensitive land use consist of residential dwellings. The nearest residences are located adjacent to and north of the project site. Additional residential dwellings, as well as, the Wine Country RV Resort are located to the south of the project site (Refer to Figure 1).

AIR QUALITY

SETTING

Paso Robles is located in San Luis Obispo County, which is part of the South Central Coast Air Basin (SCCAB) and within the jurisdiction of the SLOAPCD. Air quality in the SCCAB is influenced by a variety of factors, including topography, local and regional meteorology. Factors affecting regional and local air quality are discussed below.

TOPOGRAPHY, METEOROLOGY & CLIMATE

Topography

The City of Paso Robles is located in the upper Salinas River Valley. The Paso Robles area is bordered on the south and west by the rugged mountainous ridges of the Santa Lucia Coastal Range, to the east by the low hills of the La Panza and Temblor ranges, and to the north by the low hills and flat-topped mesas of the Diablo Range. The highest elevations in the vicinity are located in the Santa Lucia Coastal Range, where many peaks are 2,000 to 3,400 feet above mean sea level. Substantial ridgelines are distributed throughout the western, southern, and eastern portions of the City. The effects of the Pacific Ocean are diminished inland and by these major intervening terrain features.

Local and Regional Meteorology

The climate of the county can be generally characterized as Mediterranean, with warm, dry summers and cooler, relatively damp winters. Along the coast, mild temperatures are the rule throughout the year due to the moderating influence of the Pacific Ocean. This effect is diminished inland in proportion to distance from the ocean or by major intervening terrain features, such as the coastal mountain ranges. As a result, inland areas are characterized by a considerably wider range of temperature conditions. Maximum summer temperatures average about 70 degrees Fahrenheit near the coast, while inland valleys are often in the high 90s. Minimum winter temperatures average from the low 30s along the coast to the low 20s inland (SLOAPCD 2001).

Figure 1
Proposed Project Location

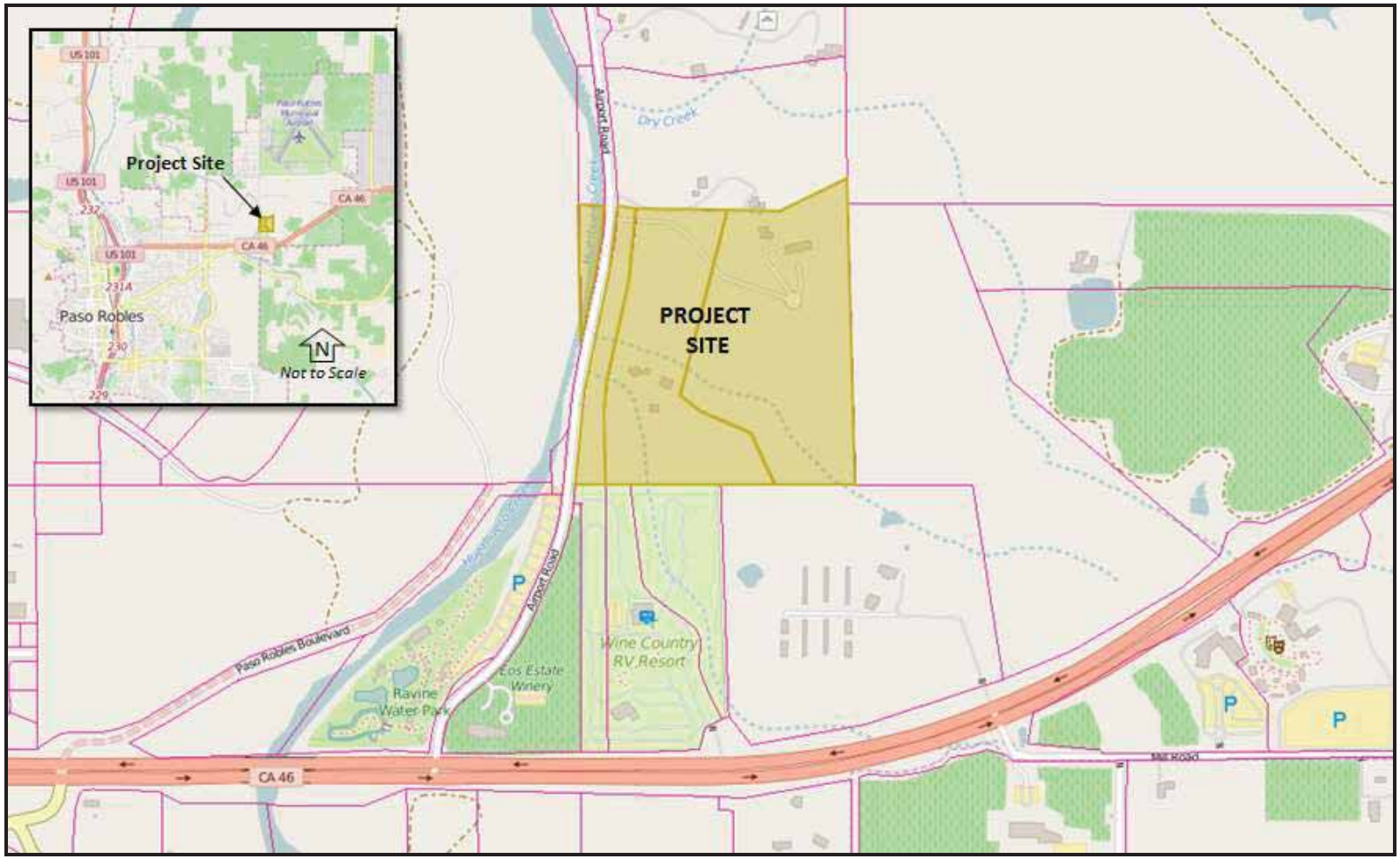
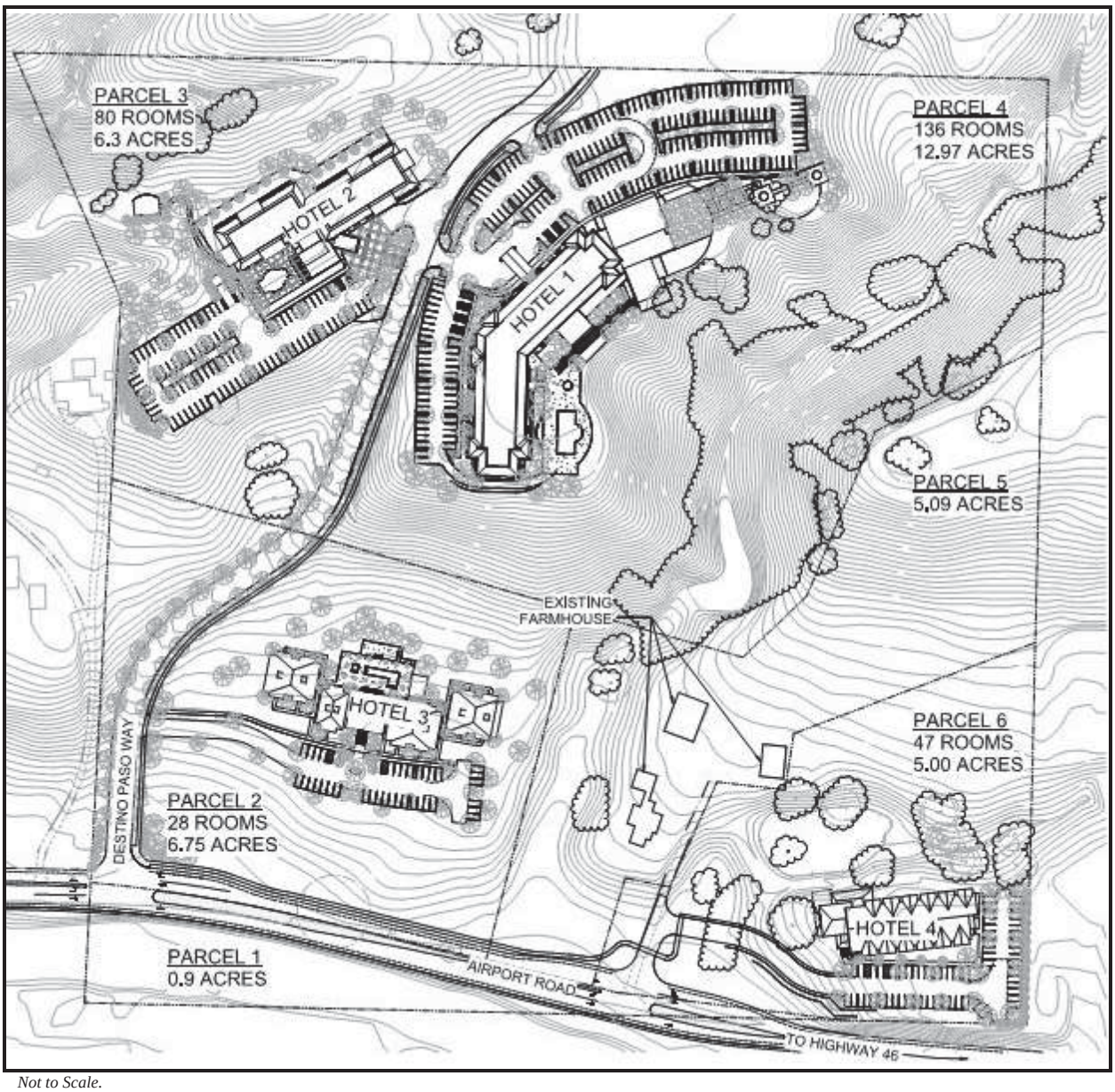


Image Source: San Luis Obispo County, 2016

Figure 2
Proposed Project Site Plan



Not to Scale.
Source: SA 2016

Regional meteorology is largely dominated by a persistent high pressure area which commonly resides over the eastern Pacific Ocean. Seasonal variations in the strength and position of this pressure cell cause seasonal changes in the weather patterns of the area. The Pacific High remains generally fixed several hundred miles offshore from May through September, enhancing onshore winds and opposing offshore winds. During spring and early summer, as the onshore breezes pass over the cool water of the ocean, fog and low clouds often form in the marine air layer along the coast. Surface heating in the interior valleys dissipates the marine layer as it moves inland (SLOAPCD 2001).

From November through April the Pacific High tends to migrate southward, allowing northern storms to move across the county. About 90 percent of the total annual rainfall is received during this period. Winter conditions are usually mild, with intermittent periods of precipitation followed by mostly clear days. Rainfall amounts can vary considerably among different regions in the county. In the Coastal Plain, annual rainfall averages 16 to 28 inches,

while the Upper Salinas River Valley generally receives about 12 to 20 inches of rain. The Carrizo Plain is the driest area of the county with less than 12 inches of rain in a typical year (SLOAPCD 2001).

Airflow around the county plays an important role in the movement and dispersion of pollutants. The speed and direction of local winds are controlled by the location and strength of the Pacific High pressure system and other global patterns, by topographical factors, and by circulation patterns resulting from temperature differences between the land and sea. In spring and summer months, when the Pacific High attains its greatest strength, onshore winds from the northwest generally prevail during the day. At night, as the sea breeze dies, weak drainage winds flow down the coastal mountains and valleys to form a light, easterly land breeze (SLOAPCD 2001).

In the Fall, onshore surface winds decline and the marine layer grows shallow, allowing an occasional reversal to a weak offshore flow. This, along with the diurnal alternation of land-sea breeze circulation, can sometimes produce a "sloshing" effect. Under these conditions, pollutants may accumulate over the ocean for a period of one or more days and are subsequently carried back onshore with the return of the sea breeze. Strong inversions can form at this time, "trapping" pollutants near the surface (SLOAPCD 2001).

This effect is intensified when the Pacific High weakens or moves inland to the east. This may produce a "Santa Ana" condition in which air, often pollutant-laden, is transported into the county from the east and southeast. This can occur over a period of several days until the high pressure system returns to its normal location, breaking the pattern. The breakup of a Santa Ana condition may result in relatively stagnant conditions and a buildup of pollutants offshore. The onset of the typical daytime sea breeze can bring these pollutants back onshore, where they combine with local emissions to cause high pollutant concentrations. Not all occurrences of the "post Santa Ana" condition lead to high ambient pollutant levels, but it does play an important role in the air pollution meteorology of the county (SLOAPCD 2001).

Atmospheric Stability and Dispersion

Air pollutant concentrations are primarily determined by the amount of pollutant emissions in an area and the degree to which these pollutants are dispersed into the atmosphere. The stability of the atmosphere is one of the key factors affecting pollutant dispersion. Atmospheric stability regulates the amount of vertical and horizontal air exchange, or mixing, that can occur within a given air basin. Restricted mixing and low wind speeds are generally associated with a high degree of stability in the atmosphere. These conditions are characteristic of temperature inversions (SLOAPCD 2001).

In the atmosphere, air temperatures normally decrease as altitude increases. At varying distances above the earth's surface, however, a reversal of this gradient can occur. This condition, termed an inversion, is simply a warm layer of air above a layer of cooler air, and it has the effect of limiting the vertical dispersion of pollutants. The height of the inversion determines the size of the mixing volume trapped below. Inversion strength or intensity is measured by the thickness of the layer and the difference in temperature between the base and the top of the inversion. The strength of the inversion determines how easily it can be broken by winds or solar heating (SLOAPCD 2001).

Several types of inversions are common to this area. Weak, surface inversions are caused by radiational cooling of air in contact with the cold surface of the earth at night. In valleys and low lying areas this condition is intensified by the addition of cold air flowing downslope from the hills and pooling on the valley floor. Surface inversions are a common occurrence throughout the county during the winter, particularly on cold mornings when the inversion is strongest. As the morning sun warms the earth and the air near the ground, the inversion lifts, gradually dissipating as the day progresses. During the late spring and early summer months, cool air over the ocean can intrude under the relatively warmer air over land, causing a marine inversion. These inversions can restrict dispersion along the coast, but they are typically shallow and will dissipate with surface heating (SLOAPCD 2001).

In contrast, in the summertime the presence of the Pacific high pressure cell can cause the air mass aloft to sink. As the air descends, compressional heating warms it to a temperature higher than the air below. This highly stable atmospheric condition, termed a subsidence inversion, is common to all of coastal California and can act as a nearly impenetrable lid to the vertical mixing of pollutants. The base of the inversion typically ranges from 1000 to 2500 feet above sea level; however, levels as low as 250 feet, among the lowest anywhere in the state, have been recorded on the coastal plateau in San Luis Obispo county. The strength of these inversions makes them difficult to disrupt.

Consequently, they can persist for one or more days, causing air stagnation and the buildup of pollutants. Highest or worst-case ozone levels are often associated with the presence of this type of inversion (SLOAPCD 2001).

CRITERIA AIR POLLUTANTS

For the protection of public health and welfare, the Clean Air Act (CAA) required that the United States Environmental Protection Agency (U.S. EPA) establish National Ambient Air Quality Standards (NAAQS) for various pollutants. These pollutants are referred to as "criteria" pollutants because the US EPA publishes criteria documents to justify the choice of standards. These standards define the maximum amount of an air pollutant that can be present in ambient air without harm to the public's health. An ambient air quality standard is generally specified as a concentration averaged over a specific time period, such as one hour, eight hours, 24 hours, or one year. The different averaging times and concentrations are meant to protect against different exposure effects. The CAA allows states to adopt additional or more health-protective standards. The air quality regulatory framework and ambient air quality standards are discussed in greater detail later in this report.

Human Health & Welfare Effects

Common air pollutants and associated adverse health and welfare effects are summarized in Table 1. Within the SCCAB, the air pollutants of primary concern, with regard to human health, include ozone, particulate matter (PM) and carbon monoxide (CO). As depicted in Table 1, exposure to increased pollutant concentrations of ozone, PM and CO can result in various heart and lung ailments, cardiovascular and nervous system impairment, and death.

Table 1
Common Pollutants & Adverse Effects

Pollutant	Human Health & Welfare Effects
Particulate Matter (PM_{10} & $PM_{2.5}$)	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
Ozone (O_3)	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield. Damages rubber, some textiles and dyes.
Sulfur Dioxide (SO_2)	Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid which can damage marble, iron and steel; damage crops and natural vegetation. Impairs visibility. Precursor to acid rain.
Carbon Monoxide (CO)	Reduces the ability of blood to deliver oxygen to vital tissues, effecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO_2)	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Contributes to global warming, and nutrient overloading which deteriorates water quality. Causes brown discoloration of the atmosphere.
Lead	Anemia, high blood pressure, brain and kidney damage, neurological disorders, cancer, lowered IQ. Affects animals, plants, and aquatic ecosystems.

Source: ARB 2015b

ODORS

Typically odors are generally regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from the psychological (i.e. irritation, anger, or anxiety) to the physiological, including circulatory and respiratory effects, nausea, vomiting, and headache.

Neither the state nor the federal governments have adopted rules or regulations for the control of odor sources. The SLOAPCD does not have an individual rule or regulation that specifically addresses odors; however, odors would be applicable to SLOAPCD's Rule 204, Nuisance. Any actions related to odors would be based on citizen complaints to local governments and the SLOAPCD. The SLOAPCD recommends that odor impacts be addressed in a qualitative manner. Such an analysis shall determine if the Project results in excessive nuisance odors, as defined under the California Code of Regulations, Health & Safety Code Section 41700, air quality public nuisance.

TOXIC AIR CONTAMINANTS

Toxic air contaminants (TACs) are air pollutants that may cause or contribute to an increase in mortality or serious illness, or which may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air, but due to their high toxicity, they may pose a threat to public health even at very low concentrations. Because there is no threshold level below which adverse health impacts are not expected to occur, TACs differ from criteria pollutants for which acceptable levels of exposure can be determined and for which state and federal governments have set ambient air quality standards. TACs, therefore, are not considered "criteria pollutants" under either the Federal Clean Air Act (FCAA) or the California Clean Air Act (CCAA), and are thus not subject to National or State AAQS. TACs are not considered criteria pollutants in that the federal and California Clean Air Acts do not address them specifically through the setting of National or State AAQS. Instead, the U.S. EPA and ARB regulate Hazardous Air Pollutants (HAPs) and TACs, respectively, through statutes and regulations that generally require the use of the maximum or best available control technology to limit emissions. In conjunction with District rules, these federal and state statutes and regulations establish the regulatory framework for TACs. At the national levels, the U.S. EPA has established National Emission Standards for HAPs (NESHAPs), in accordance with the requirements of the FCAA and subsequent amendments. These are technology-based source-specific regulations that limit allowable emissions of HAPs.

Within California, TACs are regulated primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Act sets forth a formal procedure for ARB to designate substances as TACs. This includes research, public participation, and scientific peer review before ARB designates a substance as a TAC. Existing sources of TACs that are subject to the Air Toxics Hot Spots Information and Assessment Act are required to: (1) prepare a toxic emissions inventory; (2) prepare a risk assessment if emissions are significant; (3) notify the public of significant risk levels; and (4) prepare and implement risk reduction measures.

At the state level, the ARB has authority for the regulation of emissions from motor vehicles, fuels, and consumer products. Most recently, Diesel-exhaust particulate matter (DPM) was added to the ARB list of TACs. DPM is the primary TACs of concern for mobile sources. Of all controlled TACs, emissions of DPM are estimated to be responsible for about 70 percent of the total ambient TAC risk. The ARB has made the reduction of the public's exposure to DPM one of its highest priorities, with an aggressive plan to require cleaner diesel fuel and cleaner diesel engines and vehicles (ARB 2005).

At the local level, air districts have the authority over stationary or industrial sources. All projects that require air quality permits from the SLOAPCD are evaluated for TAC emissions. The SLOAPCD limits emissions and public exposure to TACs through a number of programs. The SLOAPCD prioritizes TAC-emitting stationary sources, based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors. The SLOAPCD requires a comprehensive health risk assessment for facilities that are classified in the significant-risk category, pursuant to AB 2588. No major existing sources of TACs have been identified in the project area.

Land Use Compatibility with TAC Emission Sources

The ARB published an informational guide entitled: *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) in 2005. The purpose of this guide is to provide information to aid local jurisdictions in addressing issues and concerns related to the placement of sensitive land uses near major sources of air pollution. The CARB's Handbook includes recommended separation distances for various land uses that are based on relatively conservative estimations of emissions based on source-specific information. However, these recommendations are not site specific and should not be interpreted as defined "buffer zones". It is also important to note that the recommendations of the Handbook are advisory and need to be balanced with other State and local

policies (ARB 2005). Depending on site and project-specific conditions, an assessment of potential increases in exposure to TACs may be warranted for proposed development projects located within the distances identified. CARB-recommended separation distances for various sources of emissions are summarized in Table 2.

Table 2
Recommendations on Siting New Sensitive Land Uses Near Air Pollutant Sources

Source Category	Advisory Recommendations
Freeways and High-Traffic Roads	• Avoid siting new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day.
Distribution Centers	• Avoid siting new sensitive land uses within 1,000 feet of a distribution center (that accommodates more than 100 trucks per day, more than 40 trucks with operating transport refrigeration units (TRUs) per day, or where TRU unit operations exceed 300 hours per week). • Take into account the configuration of existing distribution centers and avoid locating residences and other new sensitive land uses near entry and exit points.
Rail Yards	• Avoid siting new sensitive land uses within 1,000 feet of a major service and maintenance rail yard. • Within one mile of a rail yard, consider possible siting limitations and mitigation approaches.
Ports	• Avoid siting of new sensitive land uses immediately downwind of ports in the most heavily impacted zones. Consult local air districts or the ARB on the status of pending analyses of health risks.
Refineries	• Avoid siting new sensitive land uses immediately downwind of petroleum refineries. Consult with local air districts and other local agencies to determine an appropriate separation.
Chrome Platers	• Avoid siting new sensitive land uses within 1,000 feet of a chrome plater.
Dry Cleaners Using Perchloroethylene	• Avoid siting new sensitive land uses within 300 feet of any dry cleaning operation. For operations with two or more machines, provide 500 feet. For operations with 3 or more machines, consult with the local air district. • Do not site new sensitive land uses in the same building with perchloroethylene dry cleaning operations.
Gasoline Dispensing Facilities	• Avoid siting new sensitive land uses within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater). A 50 foot separation is recommended for typical gas dispensing facilities.
Recommendations are advisory, are not site specific, and may not fully account for future reductions in emissions, including those resulting from compliance with existing/future regulatory requirements. *Source: ARB 2005*	

ASBESTOS

Asbestos is the common name for a group of naturally-occurring fibrous silicate minerals that can separate into thin but strong and durable fibers. Naturally-occurring asbestos, which was identified as a TAC in 1986 by CARB, is located in many parts of California and is commonly associated with ultramafic rock. The project site is not located near areas that are likely to contain ultramafic rock.

Asbestos-containing material (ACM) may be present in existing structures. The demolition or renovation of existing structures may be subject to regulatory requirements for the control of ACM. A summary of applicable regulatory requirements is included in Appendix A.

REGULATORY FRAMEWORK

Air quality within the SCCAB is regulated by several jurisdictions including the U.S. EPA, CARB, and the SLOAPCD. Each of these jurisdictions develops rules, regulations, and policies to attain the goals or directives imposed upon them through legislation.

FEDERAL

U.S. Environmental Protection Agency

At the federal level, the U.S. EPA has been charged with implementing national air quality programs. The U.S. EPA's air quality mandates are drawn primarily from the FCAA, which was signed into law in 1970. Congress substantially amended the FCAA in 1977 and again in 1990.

Federal Clean Air Act

The FCAA required the US EPA to establish National Ambient Air Quality Standards (NAAQS or National AAQS), and also set deadlines for their attainment. Two types of NAAQS have been established: primary standards, which protect public health, and secondary standards, which protect public welfare from non-health-related adverse effects, such as visibility restrictions. NAAQS are summarized in Table 3.

STATE

California Air Resources Board

The ARB is the agency responsible for coordination and oversight of state and local air pollution control programs in California and for implementing the California Clean Air Act of 1988. Other ARB duties include monitoring air quality (in conjunction with air monitoring networks maintained by air pollution control districts and air quality management districts, establishing California Ambient Air Quality Standards (CAAQS), which in many cases are more stringent than the NAAQS, and setting emissions standards for new motor vehicles. The CAAQS are summarized in Table 3. The emission standards established for motor vehicles differ depending on various factors including the model year, and the type of vehicle, fuel and engine used.

California Clean Air Act

The CCAA requires that all air districts in the state endeavor to achieve and maintain CAAQS for Ozone, CO, SO_2, and NO_2 by the earliest practical date. The CCAA specifies that districts focus particular attention on reducing the emissions from transportation and area-wide emission sources, and the act provides districts with authority to regulate indirect sources. Each district plan is required to either (1) achieve a five percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each non-attainment pollutant or its precursors, or (2) to provide for implementation of all feasible measures to reduce emissions. Any planning effort for air quality attainment would thus need to consider both state and federal planning requirements.

Assembly Bills 1807 & 2588 - Toxic Air Contaminants

Within California, TACs are regulated primarily through AB 1807 (Tanner Air Toxics Act) and AB 2588 (Air Toxics Hot Spots Information and Assessment Act of 1987). The Tanner Air Toxics Act sets forth a formal procedure for ARB to designate substances as TACs. This includes research, public participation, and scientific peer review before ARB designates a substance as a TAC. Existing sources of TACs that are subject to the Air Toxics Hot Spots Information and Assessment Act are required to: (1) prepare a toxic emissions inventory; (2) prepare a risk assessment if emissions are significant; (3) notify the public of significant risk levels; and (4) prepare and implement risk reduction measures.

Table 3
Summary of Ambient Air Quality Standards & Attainment Designations

Pollutant	Averaging Time	California Standards*		National Standards*	
		Concentration*	Attainment Status	Primary[a]	Attainment Status
Ozone (O_3)	1-hour	0.09 ppm	Non-Attainment	–	Non-Attainment Eastern SLO County -Attainment Western SLO County
	8-hour	0.070 ppm		0.075 ppm	
Particulate Matter (PM_{10})	AAM	20 µg/m3	Non-Attainment	–	Unclassified/ Attainment
	24-hour	50 µg/m3		150 µg/m3	
Fine Particulate Matter ($PM_{2.5}$)	AAM	12 µg/m3	Attainment	12 µg/m3	Unclassified/ Attainment
	24-hour	No Standard		35 µg/m3	
Carbon Monoxide (CO)	1-hour	20 ppm	Attainment	35 ppm	Attainment/ Maintenance
	8-hour	9 ppm		9 ppm	
	8-hour (Lake Tahoe)	6 ppm		–	
Nitrogen Dioxide (NO_2)	AAM	0.030 ppm	Attainment	0.053 ppm	Unclassified
	1-hour	0.18 ppm		100 ppm	
Sulfur Dioxide (SO_2)	AAM	–	Attainment	0.03 ppm	Unclassified
	24-hour	0.04 ppm		0.14 ppm	
	3-hour	–		0.5 ppm (1300 µg/m3)**	
	1-hour	0.25 ppm		75 ppb	
Lead	30-day Average	1.5 µg/m3	Attainment	–	No Attainment Information
	Calendar Quarter	–		1.5 µg/m3	
	Rolling 3-Month Average	–		0.15 µg/m3	
Sulfates	24-hour	25 µg/m3	Attainment	No Federal Standards	
Hydrogen Sulfide	1-hour	0.03 ppm (42 µg/m3)	Attainment		
Vinyl Chloride	24-hour	0.01 ppm (26 µg/m3)	No Information Available		
Visibility-Reducing Particle Matter	8-hour	Extinction coefficient: 0.23/kilometer-visibility of 10 miles or more (0.07-30 miles or more for Lake Tahoe) due to particles when the relative humidity is less than 70%.	Attainment		

** For more information on standards visit :http//ww.arb.ca.gov.research/aaqs/aaqs2.pdf*
*** Secondary Standard*
Source: SLOAPCD 2016b; ARB 2016a

In-Use Off-Road Diesel Vehicle Regulation

On July 26, 2007, the Air Resources Board (ARB) adopted a regulation to reduce diesel particulate matter (PM) and oxides of nitrogen (NOx) emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. The regulation applies to self-propelled diesel-fueled vehicles that cannot be registered and licensed to drive on-road, as well as two-engine vehicles that drive on road, with the limited exception of two-engine sweepers. Examples include

loaders, crawler tractors, skid steers, backhoes, forklifts, airport ground support equipment, water well drilling rigs, and two-engine cranes. Such vehicles are used in construction, mining, and industrial operations. The regulation does not apply to stationary equipment or portable equipment such as generators. The off-road vehicle regulation, establishes emissions performance requirements, establishes reporting, disclosure, and labeling requirements for off-road vehicles, and limits unnecessary idling.

LOCAL

County of San Luis Obispo Air Pollution Control District

The SLOAPCD is the agency primarily responsible for ensuring that NAAQS and CAAQS are not exceeded and that air quality conditions within the region are maintained. Responsibilities of the SLOAPCD include, but are not limited to, preparing plans for the attainment of ambient air quality standards, adopting and enforcing rules and regulations concerning sources of air pollution, issuing permits for stationary sources of air pollution, inspecting stationary sources of air pollution and responding to citizen complaints, monitoring ambient air quality and meteorological conditions, and implementing programs and regulations required by the FCAA and the CCAA.

IMPACT ANALYSIS

Air quality impacts attributable to the proposed project are summarized in Table 4.

Table 4
Summary of Project-Related Air Quality Impacts

Air Quality Impacts	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
A) Would the project conflict with or obstruct implementation of the applicable air quality plan?	☐	■	☐	☐
B) Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?	☐	■	☐	☐
C) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?	☐	■	☐	☐
D) Would the project expose sensitive receptors to substantial pollutant concentrations?	☐	■	☐	☐
E) Would the project create objectionable odors affecting a substantial number of people?	☐	☐	■	☐

METHODOLOGY

Short-term Impacts

Emissions associated with construction of proposed project were calculated using the CalEEMod, version 2013.2.2, computer program. Detailed construction information (e.g., equipment required, construction schedules, etc.) was not available at the time of the analysis. Construction activity schedules, equipment use, vehicle trips, equipment load factors and emission factors were, therefore, based on default parameters contained in the model. According to the project engineers, all material would be balanced on site and the import/export of soil would not be required. Construction of main hotel would occur over an estimated 15-month period. Construction of the main hotel would result in the demolition of an approximate 1,195 square foot (sf) residential structure. An existing approximate 5,000 sf

shop will be dismantled and repurposed at an off-site location by a third party. The existing shop was included in the modeled demolition activity to account for the haul truck trips, construction employee trips, and off-road equipment required with the dismantling and removal of the existing shop. To be conservative, fugitive PM emissions associated with material handling and site grading were quantified assuming that the total site would be rough graded during initial construction of the proposed main hotel, which is anticipated to begin in 2017.

Construction of the additional proposed facilities, including a second hotel, a boutique hotel, and a lodge would occur subsequent to completion of the proposed main hotel. The specific dates for construction of these additional facilities would depend on market conditions. To ensure a conservative analysis, construction of these additional facilities were assumed to occur simultaneously, beginning in January 2020. Finish grading activities were also included for construction of the subsequent facilities.

Mitigated construction-generated emissions were quantified assuming application of dust control practices, including the application of water a minimum of 3 times daily and a speed limit of 15 mph for onsite unpaved surfaces, based on the default reductions identified in the model. Mitigated emissions associated with the application of architectural coatings assumed the use of low-VOC content paints with a maximum VOC content of 50 grams per liter (g/L). Modeling assumptions and output files are included in Appendix D of this report.

Long-term Impacts

Long-term operational emissions of criteria air pollutants associated with the proposed project were calculated using the CalEEMod, version 2013.2.2, computer program. Emissions were quantified for the proposed main hotel and future buildout conditions with the inclusion of the proposed second hotel, boutique hotel, and lodge. The CalEEMod program includes quantification of emissions from various emission sources, including energy use, area sources, and motor vehicle trips. Non-transportation source emissions were quantified based largely on the default parameters contained in the model. The use of off-road equipment would not be required for project operations and was not included in the emissions modeling.

The vehicle trip-generation rates contained in the model were amended to reflect project-specific conditions, based on rates obtained from the traffic analysis prepared for this project. The trip-generation rate includes trips generated by supporting amenities, including hotel meeting facilities and restaurants. Vehicle trip lengths for hotel guests were quantified based on hotel guest survey data obtained from a similar hotel located in Pismo Beach for the year 2012 (refer to Table 5). Vehicle trip distances for in-County destinations, including coastal communities and attractions, such as Hearst Castle, Cambria, and Morro Bay, were also included in the calculation. The average vehicle travel length was 12.5 miles for hotel guests and 13 miles for employees. Modeling assumptions and output files are included in Appendix D of this report.

Table 5
Hotel Guest Survey Information

Guest Originations & Destinations (Out of County Regions)	Percent on Annual Guests (Year 2012)
Sacramento Valley & Northern San Joaquin Valley	24.2%
Southern San Joaquin Valley (Kern County)	8.8%
Northern & Central California Regions	12.7%
Southern California	45.4%
San Luis Obispo County	9%
Based on guest survey data obtained from a similar hotel located in Pismo Beach for the year 2012. Refer to Appendix D for additional information regarding estimated vehicle trip distances.	

THRESHOLDS OF SIGNIFICANCE

To assist in the evaluation of air quality impacts, the SLOAPCD has developed recommended significance thresholds, which are contained in the SLOAPCD's *CEQA Air Quality Handbook* (2012). For the purposes of this analysis, project emissions are considered potentially significant impacts if any of the following SLOAPCD thresholds are exceeded:

Construction Impacts

The threshold criteria established by the SLOAPCD to determine the significance and appropriate mitigation level for a project's short-term construction emissions are presented in Table 6 and discussed, as follows (SLOAPCD 2012):

ROG and NOx Emissions

- Daily: For construction projects expected to be completed in less than one quarter (90 days), exceedance of the 137 lb/day threshold requires Standard Mitigation Measures;
- Quarterly – Tier 1: For construction projects lasting more than one quarter, exceedance of the 2.5 ton/qtr threshold requires Standard Mitigation Measures and Best Available Control Technology (BACT) for construction equipment. If implementation of the Standard Mitigation and BACT measures cannot bring the project below the threshold, off-site mitigation may be necessary; and,
- Quarterly – Tier 2: For construction projects lasting more than one quarter, exceedance of the 6.3 ton/qtr threshold requires Standard Mitigation Measures, BACT, implementation of a Construction Activity Management Plan (CAMP), and off-site mitigation.

Table 6
SLOAPCD Thresholds of Significance for Construction Impacts

Pollutant	Threshold (1)		
	Daily (lbs/day)	Quarterly Tier 1 (tons)	Quarterly Tier 2 (tons)
Ozone Precursors (ROG + NO_X)(2)	137	2.5	6.3
Diesel Particulate Matter (DPM)(2)	7	0.13	0.32
Fugitive Particulate Matter (PM_{10}), Dust	None	2.5	None

1. Daily and quarterly emissions thresholds are based on the California Health & Safety Code and the ARB Carl Moyer Guidelines.
2. Any project with a grading area greater than 4.0 acres of worked area can exceed the 2.5 tons PM_{10} quarterly threshold.

Diesel Particulate Matter (DPM) Emissions

- Daily: For construction projects expected to be completed in less than one quarter, exceedance of the 7 lb/day threshold requires Standard Mitigation Measures;
- Quarterly - Tier 1: For construction projects lasting more than one quarter, exceedance of the 0.13 tons/quarter threshold requires Standard Mitigation Measures, BACT for construction equipment; and,
- Quarterly - Tier 2: For construction projects lasting more than one quarter, exceedance of the 0.32 ton/qtr threshold requires Standard Mitigation Measures, BACT, implementation of a CAMP, and off-site mitigation.

Fugitive Particulate Matter (PM_{10}), Dust Emissions

- Quarterly: Exceedance of the 2.5 ton/qtr threshold requires Fugitive PM_{10} Mitigation Measures and may require the implementation of a CAMP.

Operational Impacts

Criteria Air Pollutants

The threshold criteria established by the SLOAPCD to determine the significance and appropriate mitigation level for long-term operational emissions from a project are presented in Table 7.

Table 7
SLOAPCD Thresholds of Significance for Operational Impacts

Pollutant	Threshold (1)	
	Daily (lbs/day)	Annual (tons/year)
Ozone Precursors (ROG + NO_X)(2)	25	25
Diesel Particulate Matter (DPM)(2)	1.25	None
Fugitive Particulate Matter (PM_{10}), Dust	25	25
CO	550	None

1. Daily and annual emissions thresholds are based on the California Health & Safety Code Division 26, Part 3, Chapter 10, Section 40918 and the ARB Carl Moyer Guidelines for DPM.
2. CalEEMod – use winter operational emission data to compare to operational thresholds.

Toxic Air Contaminants

If a project has the potential to emit toxic or hazardous air pollutants, or is located in close proximity to sensitive receptors, impacts may be considered significant due to increased cancer risk for the affected population, even at a very low level of emissions. For the evaluation of such projects, the SLOAPCD recommends the use of the following thresholds:

- Type A Projects: new proposed land use projects that generate toxic air contaminants (such as gasoline stations, distribution facilities or asphalt batch plants) that impact sensitive receptors. Air districts across California are uniform in their recommendation to use the significance thresholds that have been established under each district's "Hot Spots" and permitting programs. The SLOAPCD has defined the excess cancer risk significance threshold at 10 in a million for Type A projects in SLO County; and,
- Type B Projects: new land use projects that will place sensitive receptors (e.g., residential units) in close proximity to existing toxics sources (e.g., freeway). The SLOAPCD has established a CEQA health risk threshold of 89 in-a-million for the analysis of projects proposed in close proximity to toxic sources. This value represents the population weighted average health risk caused by ambient background concentrations of toxic air contaminants in San Luis Obispo County. The SLOAPCD recommends Health Risk screening and, if necessary, Health Risk Assessment (HRA) for any residential or sensitive receptor development proposed in proximity to toxic sources.

Localized CO Concentrations

Localized CO concentrations associated with the proposed project would be considered less-than-significant impact if: (1) Traffic generated by the proposed project would not result in deterioration of intersection level of service (LOS) to LOS E or F; or (2) the project would not contribute additional traffic to an intersection that already operates at LOS of E or F (Caltrans 1996).

Odors

Screening of potential odor impacts is typically recommended for the following two situations:

- Projects that would potentially generate odorous emissions proposed to locate near existing sensitive receptors or other land uses where people may congregate; and
- Residential or other sensitive receptor projects or other projects that may attract people locating near existing odor sources.

If the proposed project would locate receptors and known odor sources within one mile of each other, a full analysis of odor impacts is recommended. Known odor sources of primary concern, as identified by the SLOAPCD, include: landfills, transfer stations, asphalt batch plants, rendering plants, petroleum refineries, and painting/coating operations, as well as, composting, food processing, wastewater treatment, chemical manufacturing, and feedlot/dairy facilities.

PROJECT IMPACTS AND MITIGATION MEASURES

Impact AQ-A. Would the project conflict with or obstruct implementation of the applicable air quality plan?

SLOAPCD Clean Air Plan

As part of the CCAA, the SLOAPCD is required to develop a plan to achieve and maintain the state ozone standard by the earliest practicable date. The SLOAPCD's 2001 Clean Air Plan (CAP) addresses the attainment and maintenance of state and federal ambient air quality standards. The CAP was adopted by SLOAPCD's on March 26, 2002.

The CAP outlines the District's strategies to reduce ozone-precursor pollutants (i.e., ROG and NO_X) from a wide variety of sources. The CAP includes a stationary-source control program, which includes control measures for permitted stationary sources; as well as, transportation and land use management strategies to reduce motor vehicle emissions and use. The stationary-source control program is administered by SLOAPCD. Transportation and land use control measures are implemented at the local or regional level, by promoting and facilitating the use of alternative transportation options, increased pedestrian access and accessibility to community services and local destinations, reductions in vehicle miles traveled, and promotion of congestion management efforts. In addition, local jurisdictions also prepare population forecasts, which are used by SLOAPCD to forecast population-related emissions and air quality attainment, including those contained in the CAP.

According to the SLOAPCD's *CEQA Air Quality Handbook* (2012), a consistency analysis with the Clean Air Plan is required for a program-level environmental review, and may be necessary for a larger project-level environmental review, depending on the project being considered. Project-Level environmental reviews which may require consistency analysis with the CAP include: large residential developments and large commercial/industrial developments. For such projects, evaluation of consistency is based on a comparison of the proposed project with the land use and transportation control measures and strategies outlined in the CAP. If the project is consistent with these measures, the project is considered consistent with the CAP.

The proposed project is not considered a large development project that would have the potential to result in a substantial increase in population, or employment. In addition, the proposed project is also consistent with existing zoning designations and would not result in the installation of any major stationary sources of emissions. However, as noted in Impact AQ-C, long-term operational emissions associated with the project would exceed SLOAPCD's recommended significance thresholds. Projects that exceed SLOAPCD's recommended significance thresholds would also be considered to potentially conflict with regional air quality planning efforts, including the control measures and strategies identified in the CAP. This impact is considered ***potentially significant.***

Particulate Matter Report – Implementation of SB 656 Requirements

In July 2005, SLOAPCD adopted the *Particulate Matter Report* (PM Report). The PM Report identifies various measures and strategies to reduce public exposure to PM emitted from a wide variety of sources, including emissions from permitted stationary sources and fugitive sources, such as construction activities. As discussed in Impact AQ-C, uncontrolled fugitive dust generated during construction may result in localized pollutant concentrations that may result in increased nuisance concerns to nearby land uses. Therefore, construction-generated emissions of fugitive dust would be considered to have a ***potentially significant*** impact.

Mitigation Measures

Implement Mitigation Measure AQ-1, AQ-2, and AQ-3.

Significance After Mitigation

Implementation of Mitigation Measure AQ-1 would include measures to reduce construction-generated emissions of fugitive dust, as well as, mobile-source emissions associated with construction vehicle and equipment operations and evaporative emissions from architectural coatings. With mitigation, overall emissions of fugitive dust would be reduced by approximately 58 percent. These measures would also help to ensure compliance with SLOAPCD's 20-percent opacity limit (APCD Rule 401), nuisance rule (APCD Rule 402), and would minimize potential nuisance impacts to nearby receptors. Mitigation Measure AQ-3 includes additional measures to reduce construction-generated emissions, including fugitive PM emissions associated with onsite demolition activities. Implementation of Mitigation Measure AQ-2 would include measures to reduce long-term operational emissions associated with motor vehicle use and onsite energy use to a less-than-significant level. With mitigation, the proposed project would not result in a substantial increase in regional emissions, population, or employment, nor would the project involve the installation of any major stationary sources of emissions. For these reasons, the proposed project would not conflict with or obstruct continued implementation of the CAP. With mitigation, this impact is considered ***less than significant***. Refer to *Impact AQ-C* and *Impact AQ-D* for additional discussion of air quality impacts and proposed mitigation measures.

Impact AQ-B. Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?

As noted in Impact AQ-C and AQ-D, below, short-term construction activities may result in localized concentrations of pollutants that could adversely affect nearby land uses. In addition, long-term operational emissions would exceed SLOAPCD-recommended significant thresholds. As a result, this impact is considered ***potentially significant***. Refer to *Impact AQ-C* and *Impact AQ-D* for additional discussion of air quality impacts and proposed mitigation measures.

Mitigation Measures

Implement Mitigation Measure AQ-1, AQ-2 and AQ-3.

Significance After Mitigation

Implementation of Mitigation Measure AQ-1 would include measures to reduce construction-generated emissions of fugitive dust, as well as, mobile-source emissions associated with construction vehicle and equipment operations and evaporative emissions from architectural coatings. With mitigation, overall emissions of fugitive dust would be reduced by approximately 58 percent. These measures would also help to ensure compliance with SLOAPCD's 20-percent opacity limit (APCD Rule 401), nuisance rule (APCD Rule 402), and would minimize potential nuisance impacts to nearby receptors. Mitigation Measure AQ-3 includes additional measures to reduce construction-generated emissions, including fugitive PM emissions associated with onsite demolition activities. Implementation of Mitigation Measure AQ-2 would include measures to reduce long-term operational emissions associated with motor vehicle use and onsite energy use to a less-than-significant level. With mitigation, the proposed project would not result in a substantial increase in regional emissions, population, or employment, nor would the project involve the installation of any major stationary sources of emissions. With mitigation, this impact is considered ***less than significant***. Refer to *Impact AQ-C* and *Impact AQ-D* for additional discussion of air quality impacts and proposed mitigation measures.

Impact AQ-C.	***Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?***

Short-term Construction Emissions

Construction-generated emissions are of temporary duration, lasting only as long as construction activities occur, but have the potential to represent a significant air quality impact. The construction of the proposed project would result in the temporary generation of emissions associated with site grading and excavation, paving, motor vehicle exhaust associated with construction equipment and worker trips, as well as the movement of construction equipment on unpaved surfaces. Short-term construction emissions would result in increased emissions of ozone-precursor pollutants (i.e., ROG and NO_X) and emissions of PM. Emissions of ozone-precursors would result from the operation of on- and off-road motorized vehicles and equipment. Emissions of airborne PM are largely dependent on the amount of ground disturbance associated with site preparation activities and can result in increased concentrations of PM that can adversely affect nearby sensitive land uses.

Construction-generated emissions were quantified using the CalEEMod computer program. To be conservative, emissions were quantified assuming that the total site would be rough graded during initial construction of the proposed main hotel, which is anticipated to begin in 2017. Onsite asphalt paving activities associated with construction of the onsite roadways and parking areas were also included. Grading activities were also included for the future construction of the second hotel, boutique hotel, and lodge to account for potential finish grading of these sites. Emissions associated with architectural coating application and building construction were also included for construction of the proposed main hotel, as well as, the future construction of the second hotel, boutique hotel, and lodge. To be conservative, future construction of the second hotel, boutique hotel, and lodge were assumed to occur simultaneously.

Estimated daily and quarterly emissions associated with initial construction of the main hotel are presented in Table 8 and Table 9, respectively. As depicted, maximum daily emissions associated with initial construction of the main hotel would total approximately 372.3 lbs/day of ROG+NO_X and approximately 2.8 lbs/day of exhaust PM_{10}. Quarterly construction-generated emissions would total approximately 3.5 tons of ROG+NO_X, 0.06 tons of DPM, and 0.2 tons of Fugitive PM_{10}.

Table 8
Daily Construction Emissions Without Mitigation – Main Hotel

Construction Activity	Daily Emissions (lbs)	
	ROG+NO_X	Exhaust PM_{10}
Demolition-Year 2017	47.3	2.1
Site Preparation-Year 2017	56.8	2.8
Grading/Excavation-Year 2017	75.9	3.3
Building Construction-Year 2017	35.2	1.8
Building Construction-Year 2018	31.4	1.6
Paving-Year 2018	19.3	0.9
Architectural Coating-Year 2018	321.6	0.2
Maximum Daily Emissions-Year 2017	56.8	2.8
Maximum Daily Emissions-Year 2018	**372.3**	2.6
SLOAPCD Significance Thresholds	137	7
Exceed SLOAPCD Thresholds?	**Yes**	No

Maximum Daily Emissions: Assumes that facility construction, paving, and application of architectural coatings could potentially occur simultaneously on any given day. To be conservative, construction of the main hotel assumes that the entire site could be rough graded. Totals may not sum due to rounding.
Refer to Appendix D for modeling assumptions and results.

Estimated daily and quarterly emissions associated with the future construction of the second hotel, boutique hotel, and lodge are presented in Table 10 and Table 11, respectively. As depicted, maximum daily emissions associated with the future construction of these additional facilities would total approximately 302.1 lbs/day of ROG+NO_X and approximately 1.9 lbs/day of exhaust PM_{10}. Quarterly construction-generated emissions would total approximately 3.0 tons of ROG+NO_X, 0.05 tons of DPM, and 0.2 tons of Fugitive PM_{10}. Total project construction emissions are summarized in Table 12.

Table 9
Quarterly Construction Emissions Without Mitigation – Main Hotel

Quarter	Quarterly Emissions (tons)			
		PM_{10}		
	ROG+NO_X	Dust	Exhaust	Total
Year 2017 - Quarter 1	1.8	0.2	0.06	0.1
Year 2017 - Quarter 2-4	1.0	0.0	0.05	0.1
Year 2018 - Quarter 1	**3.5**	0.0	0.03	0.1
SLOAPCD Significance Thresholds	2.5	2.5	0.13	None
Exceed SLOAPCD Thresholds?	**Yes**	No	No	No

Totals may not sum due to rounding.
Refer to Appendix D for modeling assumptions and results.

Table 10
Daily Construction Emissions Without Mitigation –
Second Hotel, Boutique Hotel & Lodge

Construction Activity	Daily Emissions (lbs)	
	ROG+NO_X	Exhaust PM_{10}
Site Preparation-Year 2020	42.7	1.9
Grading/Excavation-Year 2020	28.6	1.4
Building Construction-Year 2020	25.2	1.2
Building Construction-Year 2021	22.7	1.0
Paving-Year 2021	14.2	0.7
Architectural Coating-Year 2021	265.3	0.1
Maximum Daily Emissions-Year 2020	42.7	1.9
Maximum Daily Emissions-Year 2021	**302.1**	1.8
SLOAPCD Significance Thresholds	137	7
Exceed SLOAPCD Thresholds?	**Yes**	No

Maximum daily emissions assume that facility construction, paving, and application of architectural coatings could potentially occur simultaneously on any given day. Totals may not sum due to rounding. Includes grading to account for potential finish grading activities.
Refer to Appendix D for modeling assumptions and results.

Construction-generated emissions associated with the initial construction of the main hotel, as well as, construction of the proposed future land uses would exceed SLOAPCD's daily and quarterly significance thresholds for ROG+NO_X. Estimated emissions were largely a result of evaporative emissions anticipated to occur during the application of architectural coatings. Estimated emissions of fugitive PM would not exceed SLOAPCD's significance thresholds. However, if uncontrolled fugitive dust generated during construction may result in localized pollutant concentrations that could exceed ambient air quality standards and result in increased nuisance concerns to

nearby land uses. Therefore, construction-generated emissions of fugitive dust would be considered to have a ***potentially significant*** impact.

Table 11
Quarterly Construction Emissions Without Mitigation –
Second Hotel, Boutique Hotel & Lodge

Quarter	Quarterly Emissions (tons)			
		PM_{10}		
	$ROG+NO_X$	Dust	Exhaust	Total
Year 2020 - Quarter 1	1.2	0.2	0.05	0.3
Year 2020 - Quarter 2-4	0.7	0.0	0.03	0.1
Year 2021 - Quarter 1	**3.0**	0.0	0.02	0.0
SLOAPCD Significance Thresholds	2.5	2.5	0.13	None
Exceed SLOAPCD Thresholds?	**Yes**	No	No	No

Totals may not sum due to rounding.
Refer to Appendix D for modeling assumptions and results.

Table 12
Summary of Construction Emissions Without Mitigation

Criteria	Project Emissions	SLOAPCD Significance Threshold	Exceed Significance Threshold?
Main Hotel			
Maximum Daily Emissions of $ROG+NO_X$	**372.3** lbs/day	137 lbs/day	**Yes**
Maximum Daily Emissions of DPM	2.8 lbs/day	7 lbs/day	No
Maximum Quarterly Emissions of $ROG+NO_X$	**3.5** tons/qtr	2.5 tons/qtr	**Yes**
Maximum Quarterly Emissions of DPM	0.06 tons/qtr	0.13 tons/qtr	No
Maximum Quarterly Emissions of Fugitive PM	0.02 tons/qtr	2.5 tons/qtr	No
Second Hotel, Boutique Hotel, Lodge			
Maximum Daily Emissions of $ROG+NO_X$	**302.1** lbs/day	137 lbs/day	**Yes**
Maximum Daily Emissions of DPM	1.9 lbs/day	7 lbs/day	No
Maximum Quarterly Emissions of $ROG+NO_X$	**3.0** tons/qtr	2.5 tons/qtr	**Yes**
Maximum Quarterly Emissions of DPM	0.05 tons/qtr	0.13 tons/qtr	No
Maximum Quarterly Emissions of Fugitive PM	0.02 tons/qtr	2.5 tons/qtr	No

Quarterly thresholds are based on the more conservative Tier 1 thresholds.
Refer to Appendix D for modeling assumptions and results.

Mitigation Measures

AQ-1: The following measures shall be implemented to minimize construction-generated emissions. These measures shall be shown on grading and building plans:

a. Reduce the amount of the disturbed area where possible.

b. Use of water trucks or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the site. Increased watering frequency would be required whenever wind speeds exceed 15 mph. Reclaimed (non-potable) water should be used whenever possible.

c. All dirt stock pile areas should be sprayed daily as needed.

d. Permanent dust control measures identified in the approved project revegetation and landscape plans should be implemented as soon as possible following completion of any soil disturbing activities;

e. Exposed ground areas that are planned to be reworked at dates greater than one month after initial grading should be sown with a fast germinating, non-invasive grass seed and watered until vegetation is established.

f. All disturbed soil areas not subject to revegetation should be stabilized using approved chemical soil binders, jute netting, or other methods approved in advance by the SLOAPCD.

g. All roadways, driveways, sidewalks, etc. to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.

h. Vehicle speed for all construction vehicles shall not exceed 15 mph on any unpaved surface at the construction site.

i. All trucks hauling dirt, sand, soil, or other loose materials are to be covered or should maintain at least two feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with CVC Section 23114.

j. Install wheel washers at the construction site entrance, wash off the tires or tracks of all trucks and equipment leaving the site, or implement other SLOAPCD-approved methods sufficient to minimize the track-out of soil onto paved roadways.

k. Sweep streets at the end of each day if visible soil material is carried onto adjacent paved roads. Water sweepers with reclaimed water should be used where feasible.

l. The burning of vegetative material shall be prohibited.

m. The contractor or builder shall designate a person or persons to monitor the fugitive dust emissions and enhance the implementation of the measures as necessary to minimize dust complaints, reduce visible emissions below 20% opacity, and to prevent transport of dust offsite. Their duties shall include holidays and weekend periods when work may not be in progress. The name and telephone number of such persons shall be provided to the SLOAPCD Compliance Division prior to the start of any grading, earthwork or demolition.

n. Construction of the proposed project shall use low-VOC content paints not exceeding 50 grams per liter.

Significance After Mitigation

With implementation of Mitigation Measure AQ-1,a., overall emissions of fugitive dust would be reduced by approximately 58 percent. These measures would also help to ensure compliance with SLOAPCD's 20-percent opacity limit (APCD Rule 401), nuisance rule (APCD Rule 402), and would minimize potential nuisance impacts to nearby receptors. With the use of low-VOC content paints, maximum daily construction-generated emissions of ROG+NO_X would total approximately 117 lbs/day for construction of the main hotel and approximately 91 lbs/day for construction of the second hotel, boutique hotel, and lodge. Maximum quarterly emissions of ROG+NO_X would be reduced to approximately 1.2 tons/quarter for construction of the main hotel and approximately 0.9 tons/quarter for construction of the second hotel, boutique hotel, and lodge. Mitigated emissions of ROG+NO_X would not exceed SLOAPCD's daily and quarterly significance thresholds of 137 lbs/day and 2.5 tons/quarter, respectively. With mitigation, this impact would be considered ***less than significant***.

<u>Long-term Operational Emissions</u>

Long-term operational emissions associated with the proposed project would be predominantly associated with mobile sources. To a lesser extent, emissions associated with area sources, such as landscape maintenance activities, as well as, use of electricity and natural gas would also contribute to increased operational emissions. Operational emissions were quantified for the proposed main hotel; as well as, the future construction of a second hotel, boutique hotel, and lodge.

Main Hotel

Unmitigated operational emissions associated with operation of the main hotel for opening year 2019 are summarized in Table 13. As depicted, maximum daily operational emissions would total approximately 22.73 lbs/day ROG+NOx, 34.02 lbs/day CO, 5.09 lbs/day of fugitive PM_{10}, and 0.29 lbs/day of exhaust PM_{10}. Maximum annual emissions would total approximately 4.10 tons/year of ROG+NOx and approximately 0.90 tons/year of fugitive PM_{10}. Operational emissions associated with the proposed main hotel would not exceed SLOAPCD significance thresholds.

Project Buildout

The project buildout year is currently unknown. Construction of the additional hotels would occur in future years, subsequent to completion of the main hotel, and would depend on market conditions. To be conservative, emissions for project buildout were quantified assuming a buildout year of 2022. With continued improvements in vehicle emissions rates and energy usage rates, operational emissions for future years are anticipated to be less.

Total unmitigated operational emissions for project buildout conditions are summarized in Table 14. As depicted, maximum daily operational emissions would total approximately 40.85 lbs/day ROG+NOx, 60.95 lbs/day CO, 10.89 lbs/day of fugitive PM_{10}, and 0.60 lbs/day of exhaust PM_{10}. Maximum annual emissions would total approximately 7.39 tons/year of ROG+NOx and approximately 1.93 tons/year of fugitive PM_{10}. Buildout of the proposed project would not exceed SLOAPCD's annual thresholds but would exceed SLOAPCD daily significance threshold of 25 lbs/day. It is also important to note that the proposed project would result in the removal of one existing onsite residential dwelling. The removal of this residential dwelling would result in slight reductions in operational emissions. However, because buildout operational emissions would exceed SLOAPCD's daily significance threshold of 25 lbs/day, buildout of the proposed project would have a ***potentially significant*** impact.

Table 13
Operational Emissions Without Mitigation – Main Hotel

Operational Period/Source	Emissions						
					PM_{10}		
	ROG	NO_X	ROG+NO_X	CO	Fugitive	Exhaust	Total
Daily Emissions (lbs/day)							
Summer Conditions	11.64	10.41	22.05	31.32	5.09	0.29	5.38
Winter Conditions	11.86	10.87	22.73	34.02	5.09	0.29	5.38
SLOAPCD Significance Thresholds	--	--	25	550	25	1.25	--
Exceeds SLOAPCD Thresholds?	--	--	No	No	No	No	--
Annual Emissions (tons/year)							
Total Project Emissions	2.13	1.97	4.10	5.96	0.90	0.05	0.96
SLOAPCD Significance Thresholds	--	--	25	--	25	--	--
Exceeds SLOAPCD Thresholds?	--	--	No	--	No	--	--

Based on year 2019 operational conditions. Totals may not sum due to rounding.
Refer to Appendix D for modeling output files and assumptions.

Table 14
Operational Emissions Without Mitigation – Project Buildout

Operational Period/Source	Emissions						
					PM_{10}		
	ROG	NO_X	ROG+NO_X	CO	Fugitive	Exhaust	Total
Daily Emissions (lbs/day)							
Main Hotel	11.42	8.53	19.95	28.49	5.09	0.28	5.37
Second Hotel, Boutique Hotel & Lodge	11.18	9.72	20.90	32.46	5.80	0.32	6.12
Total Project	22.60	18.25	**40.85**	60.95	10.89	0.60	11.49
Removed Residential	-0.07	-0.07	-0.14	-0.36	-0.05	-0.01	-0.06
Net Increase	22.53	18.18	**40.71**	60.59	10.84	0.59	11.43
SLOAPCD Significance Thresholds	--	--	25	550	25	1.25	--
Exceeds SLOAPCD Thresholds?	--	--	**Yes**	No	No	No	--
Annual Emissions (tons/year)							
Main Hotel	2.06	1.55	3.61	4.98	0.90	0.05	0.95
Second Hotel, Boutique Hotel & Lodge	2.01	1.77	3.78	5.67	1.03	0.06	1.09
Total Project	4.07	3.32	7.39	10.65	1.93	0.11	2.04
Removed Residential	-0.01	-0.01	-0.02	-0.06	-0.01	-0.00	-0.01
Net Increase	4.06	3.31	7.37	10.59	1.92	0.11	2.03
SLOAPCD Significance Thresholds	--	--	25	--	25	--	--
Exceeds SLOAPCD Thresholds?	--	--	No	--	No	--	--

Project buildout includes construction of a main hotel, second hotel, lodge, and boutique hotel. Conservatively, based on year 2022 operational conditions.
Totals may not sum due to rounding.
Refer to Appendix D for modeling output files and assumptions.

Mitigation Measure

AQ-2: To reduce operational emissions, the proposed project shall implement the following measures. The project proponent shall submit proof to the Paso Robles Community Development Department Staff that implementation of all measures have been met in accordance with a time schedule deemed appropriate by Community Development Department staff.

a. Utilize green building materials (materials which are resource efficient, recycled, and sustainable) available locally if possible.

b. Provide shade tree planting in parking lots to reduce evaporative emissions from parked vehicles. Design should provide 50% tree coverage within 10 years of construction using low ROG emitting, low maintenance native drought resistant trees.

c. Pave and maintain roads in parking areas.

d. Plant drought tolerant native shade trees along southern exposures of buildings to reduce energy used to cool buildings in summer.

e. Provide native and drought tolerant trees beyond those required as mitigation for tree removal.

f. Incorporate outdoor electrical outlets to encourage the use of electric appliances and tools.

g. Install high-efficiency heating and cooling systems.

h. Utilize high-efficiency gas or solar water heaters.

i. Utilize built-in energy efficient appliances (i.e., Energy Star rated).
j. Utilize double- or triple-paned windows.
k. Utilize low energy street lights (i.e., sodium, light-emitting diode [LED]).
l. Utilize energy-efficient interior lighting.
m. Install door sweeps and weather stripping (if more efficient doors and windows are not available).
n. Install energy-reducing programmable thermostats.
o. Install low water consumption landscape. Use native plants that do not require watering after they are well established or minimal watering during the summer months and are low ROG emitting.
p. Provide a designated parking space for alternatively fueled vehicles.
q. Provide a shuttle service for guests to local destinations, including Paso Robles Transit/Amtrak Station
r. Install energy-saving systems in guest rooms that reduce energy usage when rooms are not occupied.
s. Provide a pedestrian access network that internally links all uses and connects all existing or planned external streets and pedestrian facilities contiguous with the project site
t. Provide on-site bicycle parking beyond those required by California Green Building Standards Code and related facilities to support long-term use (lockers, or a locked room with standard racks and access limited to bicyclists only).
u. Implement traffic calming improvements as appropriate (e.g., marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, median islands, mini-circles, tight corner radii, etc.)

Significance After Mitigation

Implementation of Mitigation Measure AQ-2 would require the incorporation of measures to reduce operational emissions associated with on-site energy use and motor vehicle use. These measures would apply to all proposed hotel uses. The proposed mitigation measures include SLOAPCD-recommended mitigation measures, as well as, additional measures to further reduce operational emissions associated with energy use and motor vehicle use. SLOAPCD considers implementation of these measures to be sufficient to reduce operational air quality impacts to a ***less-than-significant*** level.

Impact AQ-D. Would the project expose sensitive receptors to substantial pollutant concentrations?

The project site is located adjacent to and east of Airport Road, north of SR 46 East. The nearest sensitive land use consist of residential dwellings. The nearest residences are located adjacent to and north of the project site. Additional residential dwellings, as well as, the Wine Country RV Resort are located to the south of the project site (Refer to Figure 1).

Localized CO Concentrations

Localized concentrations of CO are of primary concern in areas located near congested roadway intersections. Of particular concern are signalized intersections that are projected to operate at unacceptable levels of service (LOS) E or F (Caltrans 1996).

Based on the traffic analysis prepared for this project, signalized intersections in the project area would operate at LOS C, or better (CCTC 2016). The proposed hotel project would not result in or contribute to unacceptable levels of service (i.e., LOS E or F) at primarily affected signalized intersections. In addition, the proposed project would not result in emissions of CO in excess of the SLOAPCD's significance threshold of 550 lbs/day. This impact is considered ***less than significant***.

Naturally Occurring Asbestos

Naturally Occurring Asbestos (NOA) has been identified as a toxic air contaminant by the ARB. In accordance with ARB Air Toxics Control Measure (ATCM), prior to any grading activities a geologic evaluation should be conducted to determine if NOA is present within the area that will be disturbed. If NOA is not present, an exemption request form, along with a copy of the geologic report, must be filed with the SLOAPCD. If NOA is found at the site, the applicant must comply with all requirements outlined in the Asbestos ATCM.

Based on a review of the SLOAPCD's map depicting potential areas of NOA, the project site is not located in an area that has been identified as having a potential for NOA (Refer to Appendix B). As a result, this impact is considered ***less than significant***.

Asbestos-Containing Materials

Demolition activities can have potential negative air quality impacts, including issues surrounding proper handling, demolition, and disposal of asbestos containing material (ACM). Asbestos containing materials could be encountered during demolition of existing buildings, particularly older structures constructed prior to 1970. Asbestos can also be found in various building products, including (but not limited to) utility pipes/pipelines (transite pipes or insulation on pipes). If a project will involve the disturbance or potential disturbance of ACM, various regulatory requirements may apply, including the requirements stipulated in the National Emission Standard for Hazardous Air Pollutants (40CFR61, Subpart M - Asbestos NESHAP). These requirements include but are not limited to: 1) notification, within at least 10 business days of activities commencing, to the APCD, 2) an asbestos survey conducted by a Certified Asbestos Consultant, and, 3) applicable removal and disposal requirements of identified ACM.

The project site will require demolition of onsite structures. As a result, demolition activities have the potential to result in the disturbance of ACM. This impact is considered ***potentially significant***.

Lead-Coated Materials

Demolition of structures coated with lead based paint can have potential negative air quality impacts and may adversely affect the health of nearby individuals. Improper demolition can result in the release of lead containing particles from the site. Sandblasting or removal of paint by heating with a heat gun can result in significant emissions of lead. Therefore, proper abatement of lead before demolition of these structures must be performed in order to prevent the release of lead from the site. Furthermore, depending on removal method, a SLOAPCD permit may be required. This impact is considered ***potentially significant***.

Localized PM Concentrations

Implementation of the proposed project would result in the generation of fugitive PM emitted during construction. Fugitive PM emissions would be primarily associated with earth-moving, demolition, and material handling activities, as well as, vehicle travel on unpaved and paved surfaces. Onsite off-road equipment and trucks would also result in short-term emissions of diesel-exhaust PM (DPM). If uncontrolled, localized concentrations of PM could exceed air quality standards and may also result in increased nuisance impacts to nearby land uses and receptors. This impact is considered ***potentially significant***.

Mitigation Measures

AQ-3: The following measures shall be implemented to reduce expose of sensitive receptors to substantial pollutant concentrations. These measures shall be shown on grading and building plans:

a. Implement Mitigation Measure AQ-1, as identified in "Impact AQ-C", above.

b. Demolition of onsite structures shall comply with the National Emission Standards for Hazardous Air Emissions (NESHAP) requirements (NESHAP, 40 CFR, Part 61, Subpart M) for the demolition of existing structures. The SLOAPCD is delegated authority by the Environmental Protection Agency (EPA) to implement the Federal Asbestos NESHAP. Prior to demolition of onsite structures, the SLOAPCD shall be notified, per NESHAP requirements. SLOAPCD notification form and reporting requirements are included in Appendix A. Additional information may be obtained at website url: http://slocleanair.org/business/asbestos.php.

c. If during demolition of existing structures, paint is separated from the construction materials (e.g. chemically or physically), the paint waste will be evaluated independently from the building material by a qualified hazardous materials inspector to determine its proper management. All hazardous materials shall be handled and disposed in accordance with local, state and federal regulations. According to the Department of Toxic Substances Control (DTSC), if paint is not removed from the building material during demolition (and is not chipping or peeling), the material can be disposed of as construction debris (a non-hazardous waste). The landfill operator will be contacted prior to disposal of building material debris to determine any specific requirements the landfill may have regarding the disposal of lead-based paint materials. The disposal of demolition debris shall comply with any such requirements. Contact the SLOAPCD Enforcement Division at (805) 781-5912 for more information. Approval of a lead work plan and permit may be required. Lead work plans, if required, will need to be submitted to SLOAPCD ten days prior to the start of demolition

d. On-road diesel vehicles shall comply with Section 2485 of Title 13 of the California Code of Regulations. This regulation limits idling from diesel-fueled commercial motor vehicles with gross vehicular weight ratings of more than 10,000 pounds and licensed for operation on highways. It applies to California and non-California based vehicles. In general, the regulation specifies that drivers of said vehicles:

    1) Shall not idle the vehicle's primary diesel engine for greater than 5 minutes at any location, except as noted in Subsection (d) of the regulation; and,

    2) Shall not operate a diesel-fueled auxiliary power system to power a heater, air conditioner, or any ancillary equipment on that vehicle during sleeping or resting in a sleeper berth for greater than 5.0 minutes at any location when within 1,000 feet of a restricted area, except as noted in Subsection (d) of the regulation.

e. Maintain all construction equipment in proper tune according to manufacturer's specifications;

f. Fuel all off-road and portable diesel powered equipment with ARB certified motor vehicle diesel fuel (non-taxed version suitable for use off-road);

g. Use diesel construction equipment meeting ARB's Tier 2 certified engines or cleaner off-road heavy-duty diesel engines, and comply with the State off-Road Regulation;

h. Idling of all on and off-road diesel-fueled vehicles shall not be permitted when not in use. Signs shall be posted in the designated queuing areas and or job site to remind drivers and operators of the no idling limitation.

i. Electrify equipment when possible;

j. Substitute gasoline-powered in place of diesel-powered equipment, when available; and,

k. Use alternatively fueled construction equipment on-site when available, such as compressed natural gas (CNG), liquefied natural gas (LNG), propane or biodiesel.

Significance After Mitigation

Mitigation Measure AQ-3,a includes measures for the control of fugitive dust emitted during project construction, including emissions generated during the demolition of existing structures. Mitigation Measures AQ-3,b and AQ-3,c have been included for the control of potentially hazardous emissions during demolition and to ensure compliance with applicable regulatory requirements. Mitigation Measures AQ-3,d through AQ-3,k include additional provisions for reducing emissions of DPM from onsite mobile sources. With implementation of Mitigation Measure AQ-3, this impact would be considered ***less than significant***.

Impact AQ-E. Would the project create objectionable odors affecting a substantial number of people?

The occurrence and severity of odor impacts depends on numerous factors, including: the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of the receptors. While offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and regulatory agencies. Projects with the potential to frequently expose members of the public to objectionable odors would be deemed to have a significant impact.

The proposed project would not result in the installation of any equipment or processes that would be considered major odor-emission sources. However, construction of the proposed project would involve the use of a variety of gasoline or diesel-powered equipment that would emit exhaust fumes. Exhaust fumes, particularly diesel-exhaust, may be considered objectionable by some people. In addition pavement coatings and architectural coatings used during project construction would also emit temporary odors. However, construction-generated emissions would occur intermittently throughout the workday and would dissipate rapidly with increasing distance from the source. As a result, short-term construction activities would not expose a substantial number of people to frequent odorous emissions. For these reasons, potential exposure of sensitive receptors to odorous emissions would be considered ***less than significant***.

GREENHOUSE GASES AND CLIMATE CHANGE

SETTING

To fully understand global climate change, it is important to recognize the naturally occurring "greenhouse effect" and to define the GHGs that contribute to this phenomenon. Various gases in the earth's atmosphere, classified as atmospheric GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space and a portion of the radiation is absorbed by the earth's surface. The earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation. Greenhouse gases, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Among the prominent GHGs contributing to the greenhouse effect are carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Primary GHGs attributed to global climate change, are discussed, as follows:

- **Carbon Dioxide**. Carbon dioxide (CO_2) is a colorless, odorless gas. CO_2 is emitted in a number of ways, both naturally and through human activities. The largest source of CO_2 emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, industrial facilities, and other sources. A number of specialized industrial production processes and product uses such as mineral production, metal production, and the use of petroleum-based products can also lead to CO_2 emissions. The atmospheric lifetime of CO_2 is variable because it is so readily exchanged in the atmosphere (U.S. EPA 2008a).

- **Methane**. Methane (CH_4) is a colorless, odorless gas that is not flammable under most circumstances. CH_4 is the major component of natural gas, about 87% by volume. It is also formed and released to the atmosphere by biological processes occurring in anaerobic environments. Methane is emitted from a variety of both human-related and natural sources. Human-related sources include fossil fuel production, animal husbandry (enteric fermentation in livestock and manure management), rice cultivation, biomass burning, and waste management. These activities release significant quantities of methane to the atmosphere. Natural sources of methane include wetlands, gas hydrates, permafrost, termites, oceans, freshwater bodies, non-wetland soils, and other sources such as wildfires. Methane's atmospheric lifetime is about 12 years (U.S. EPA 2015).

- **Nitrous Oxide**. Nitrous oxide (N_2O) is a clear, colorless gas with a slightly sweet odor. N_2O is produced by both natural and human-related sources. Primary human-related sources of N_2O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuels, adipic acid production, and nitric acid production. N_2O is also produced naturally from a wide variety of biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N_2O is approximately 120 years (U.S. EPA 2015).

- **Hydrofluorocarbons.** Hydrofluorocarbons (HFCs) are man-made chemicals, many of which have been developed as alternatives to ozone-depleting substances for industrial, commercial, and consumer products. The only significant emissions of HFCs before 1990 were of the chemical HFC-23, which is generated as a byproduct of the production of HCFC-22 (or Freon 22, used in air conditioning applications). The atmospheric lifetime for HFCs varies from just over a year for HFC-152a to 260 years for HFC-23. Most of the commercially used HFCs have atmospheric lifetimes of less than 15 years (e.g., HFC-134a, which is used in automobile air conditioning and refrigeration, has an atmospheric life of 14 years) (U.S. EPA 2015).

- **Perfluorocarbons.** Perfluorocarbons (PFCs) are colorless, highly dense, chemically inert, and nontoxic. There are seven PFC gases: perfluoromethane (CF_4), perfluoroethane (C_2F_6), perfluoropropane (C_3F_8), perfluorobutane (C_4F_{10}), perfluorocyclobutane (C_4F_8), perfluoropentane (C_5F_{12}), and perfluorohexane (C_6F1_4). Natural geological emissions have been responsible for the PFCs that have accumulated in the atmosphere in the past; however, the largest current source is aluminum production, which releases CF_4 and C_2F_6 as byproducts. The estimated atmospheric lifetimes for CF_4 and C_2F_6 are 50,000 and 10,000 years, respectively (U.S. EPA 2015).

- **Nitrogen Trifluoride**. Nitrogen trifluoride (NF_3) is an inorganic, colorless, odorless, toxic, nonflammable gas used as an etchant in microelectronics. Nitrogen trifluoride is predominantly employed in the cleaning of the plasma-enhanced chemical vapor deposition chambers in the production of liquid crystal displays and silicon-based thin film solar cells. In 2009, NF_3 was listed by California as a potential GHG to be listed and regulated under Assembly Bill (AB) 32 (Section 38505 Health and Safety Code).

- **Sulfur Hexafluoride**. Sulfur hexafluoride (SF_6) is an inorganic compound that is colorless, odorless, nontoxic, and generally nonflammable. SF_6 is primarily used as an electrical insulator in high voltage equipment. The electric power industry uses roughly 80% of all SF_6 produced worldwide. Leaks of SF_6 occur from aging equipment and during equipment maintenance and servicing. SF_6 has an atmospheric life of 3,200 years (U.S. EPA 2008b).

- **Black Carbon**. Black Carbon (BC) has recently emerged as a major contributor to global climate change. BC particles strongly absorb sunlight and give soot its black color. BC is produced both naturally and by human activities as a result of the incomplete combustion of fossil fuels, biofuels, and biomass. Primary sources include emissions from diesel-fueled engines, cook stoves, wood burning and forest fires.

Each GHG differs in its ability to absorb heat in the atmosphere based on the lifetime, or persistence, of the gas molecule in the atmosphere. Often, estimates of GHG emissions are presented in carbon dioxide equivalents (CO_2e), which weight each gas by its global warming potential (GWP). Expressing GHG emissions in carbon dioxide equivalents takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO_2 were being emitted. Table 15 shows the GWP for the GHG emissions of typical concern with regard to community development projects, based on a 100-year time horizon. As

indicated, Methane traps over 25 times more heat per molecule than CO_2, and N_2O absorbs roughly 298 times more heat per molecule than CO_2. Additional GHG with high GWP include Nitrogen trifluoride, and Sulfur hexafluoride, Perfluorocarbons.

Table 15
Global Warming Potential for Greenhouse Gases

Greenhouse Gas	Global Warming Potential (100-year)
Carbon Dioxide (CO_2)	1
Methane (CH_4)	25
Nitrous Dioxide (N_2O)	298
**Based on IPCC GWP values for 100-year time horizon* *Source: IPCC 2007*	

SOURCES OF GHG EMISSIONS

On a global scale, GHG emissions are predominantly associated with activities related to energy production; changes in land use, such as deforestation and land clearing; industrial sources; agricultural activities; transportation; waste and wastewater generation; and commercial and residential land uses. World-wide, energy production including the burning of coal, natural gas, and oil for electricity and heat is the largest single source of global GHG emissions (U.S. EPA 2015d).

In 2013, GHG emissions within California totaled 459 million metric tons (MMT) of CO_2e. Within California, the transportation sector is the largest contributor, accounting for approximately 37 percent of the total state-wide GHG emissions. Emissions associated with industrial uses are the second largest contributor, totaling roughly 23 percent. Electricity generation totaled roughly 20 percent (ARB 2014).

EFFECTS OF GLOBAL CLIMATE CHANGE

There are uncertainties as to exactly what the climate changes will be in various local areas of the earth. There are also uncertainties associated with the magnitude and timing of other consequences of a warmer planet: sea level rise, spread of certain diseases out of their usual geographic range, the effect on agricultural production, water supply, sustainability of ecosystems, increased strength and frequency of storms, extreme heat events, increased air pollution episodes, and the consequence of these effects on the economy.

Within California, climate changes would likely alter the ecological characteristics of many ecosystems throughout the state. Such alterations would likely include increases in surface temperatures and changes in the form, timing, and intensity of precipitation. For instance, historical records are depicting an increasing trend toward earlier snowmelt in the Sierra Nevada. This snow pack is a principal supply of water for the state, providing roughly 50 percent of state's annual runoff. If this trend continues, some areas of the state may experience an increased danger of floods during the winter months and possible exhaustion of the snowpack during spring and summer months. An earlier snowmelt would also impact the State's energy resources. Currently, approximately 20 percent of California's electricity comes from hydropower. An early exhaustion of the Sierra snowpack, may force electricity producers to switch to more costly or non-renewable forms of electricity generation during spring and summer months. A changing climate may also impact agricultural crop yields, coastal structures, and biodiversity. As a result, resultant changes in climate will likely have detrimental effects on some of California's largest industries, including agriculture, wine, tourism, skiing, recreational and commercial fishing, and forestry.

REGULATORY FRAMEWORK

FEDERAL

Executive Order 13514 (October 5, 2009): This order is focused on reducing GHGs internally in federal agency missions, programs and operations, but also directs federal agencies to participate in the Interagency Climate Change Adaptation Task Force, which is engaged in developing a national strategy for adaptation to climate change.

U.S. EPA's authority to regulate GHG emissions stems from the U.S. Supreme Court decision in Massachusetts v. EPA (2007). The Supreme Court ruled that GHGs meet the definition of air pollutants under the existing Clean Air Act and must be regulated if these gases could be reasonably anticipated to endanger public health or welfare. Responding to the Court's ruling, U.S. EPA finalized an endangerment finding in December 2009. Based on scientific evidence it found that six GHGs constitute a threat to public health and welfare. Thus, it is the Supreme Court's interpretation of the existing Act and U.S. EPA's assessment of the scientific evidence that form the basis for EPA's regulatory actions. U.S. EPA in conjunction with NHTSA issued the first of a series of GHG emission standards for new cars and light-duty vehicles in April 2010.

The U.S. EPA and the National Highway Traffic Safety Administration (NHTSA) are taking coordinated steps to enable the production of a new generation of clean vehicles with reduced GHG emissions and improved fuel efficiency from on-road vehicles and engines. These next steps include developing the first-ever GHG regulations for heavy-duty engines and vehicles, as well as additional light-duty vehicle GHG regulations.

The final combined standards that made up the first phase of this national program apply to passenger cars, light-duty trucks, and medium-duty passenger vehicles, covering model years 2012 through 2016. The standards implemented by this program are expected to reduce GHG emissions by an estimated 960 million metric tons (MMT) and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012-2016).

On August 28, 2012, U.S. EPA and NHTSA issued a joint Final Rulemaking to extend the National Program for fuel economy standards to model year 2017 through 2025 passenger vehicles. Over the lifetime of the model year 2017-2025 standards this program is projected to save approximately four billion barrels of oil and two billion metric tons of GHG emissions.

The complementary U.S. EPA and NHTSA standards that make up the Heavy-Duty National Program apply to combination tractors (semi-trucks), heavy-duty pickup trucks and vans, and vocational vehicles (including buses and refuse or utility trucks). Together, these standards will cut GHG emissions and domestic oil use significantly. This program responds to President Barack Obama's 2010 request to jointly establish GHG emissions and fuel efficiency standards for the medium- and heavy-duty highway vehicle sector. The agencies estimate that the combined standards will reduce CO_2 emissions by about 270 MMT and save about 530 million barrels of oil over the life of model year 2014 to 2018 heavy duty vehicles (U.S. EPA 2011).

STATE

Assembly Bill 1493

AB 1493 (Pavley) of 2002 (Health and Safety Code Sections 42823 and 43018.5) requires the ARB to develop and adopt the nation's first GHG emission standards for automobiles. These standards are also known as Pavley I. The California Legislature declared in AB 1493 that global warming is a matter of increasing concern for public health and the environment. It cites several risks that California faces from climate change, including a reduction in the state's water supply, an increase in air pollution caused by higher temperatures, harm to agriculture, an increase in wildfires, damage to the coastline, and economic losses caused by higher food, water, energy, and insurance prices. The bill also states that technological solutions to reduce GHG emissions would stimulate California's economy and provide jobs. In 2004, the State of California submitted a request for a waiver from federal clean air regulations, as the State is authorized to do under the Clean Air Act, to allow the State to require reduced tailpipe emissions of CO_2.

In late 2007, the U.S. EPA denied California's waiver request and declined to promulgate adequate federal regulations limiting GHG emissions. In early 2008, the State brought suit against the U.S. EPA related to this denial.

In January 2009, President Obama instructed the U.S. EPA to reconsider the Bush Administration's denial of California's and 13 other states' requests to implement global warming pollution standards for cars and trucks. In June 2009, the U.S. EPA granted California's waiver request, enabling the State to enforce its GHG emissions standards for new motor vehicles beginning with the current model year.

Also in 2009, President Obama announced a national policy aimed at both increasing fuel economy and reducing GHG pollution for all new cars and trucks sold in the US. The new standards would cover model years 2012 to 2016 and would raise passenger vehicle fuel economy to a fleet average of 35.5 miles per gallon by 2016. When the national program takes effect, California has committed to allowing automakers who show compliance with the national program to also be deemed in compliance with state requirements. California is committed to further strengthening these standards beginning in 2017 to obtain a 45 percent GHG reduction from the 2020 model year vehicles.

Executive Order No. S-3-05

Executive Order S-3-05 (State of California) proclaims that California is vulnerable to the impacts of climate change. It declares that increased temperatures could reduce the Sierra's snowpack, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To combat those concerns, the Executive Order established total greenhouse gas emission targets. Specifically, emissions are to be reduced to the 2000 level by 2010, to the 1990 level by 2020, and to 80 percent below the 1990 level by 2050.

The Executive Order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce greenhouse gas emissions to the target levels. The secretary will also submit biannual reports to the governor and state legislature describing (1) progress made toward reaching the emission targets, (2) impacts of global warming on California's resources, and (3) mitigation and adaptation plans to combat these impacts. To comply with the Executive Order, the secretary of CalEPA created a Climate Action Team made up of members from various state agencies and commissions. The Climate Action Team released its first report in March 2006 and continues to release periodic reports on progress. The report proposed to achieve the targets by building on voluntary actions of California businesses, local government and community actions, as well as through state incentive and regulatory programs.

Assembly Bill 32 - California Global Warming Solutions Act of 2006

AB 32 (Health and Safety Code Sections 38500, 38501, 28510, 38530, 38550, 38560, 38561–38565, 38570, 38571, 38574, 38580, 38590, 38592–38599) requires that statewide GHG emissions be reduced to 1990 levels by the year 2020. The gases that are regulated by AB 32 include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, nitrogen trifluoride, and sulfur hexafluoride. The reduction to 1990 levels will be accomplished through an enforceable statewide cap on GHG emissions that will be phased in starting in 2012. To effectively implement the cap, AB 32 directs ARB to develop and implement regulations to reduce statewide GHG emissions from stationary sources. AB 32 specifies that regulations adopted in response to AB 1493 should be used to address GHG emissions from vehicles. However, AB 32 also includes language stating that if the AB 1493 regulations cannot be implemented, then ARB should develop new regulations to control vehicle GHG emissions under the authorization of AB 32.

AB 32 requires that ARB adopt a quantified cap on GHG emissions representing 1990 emissions levels and disclose how it arrives at the cap, institute a schedule to meet the emissions cap, and develop tracking, reporting, and enforcement mechanisms to ensure that the state achieves reductions in GHG emissions necessary to meet the cap. AB 32 also includes guidance to institute emissions reductions in an economically efficient manner and conditions to ensure that businesses and consumers are not unfairly affected by the reductions.

Climate Change Scoping Plan

In October 2008, ARB published its Climate Change Proposed Scoping Plan, which is the State's plan to achieve GHG reductions in California required by AB 32. The Scoping Plan contains the main strategies California will implement to achieve reduction of 169 million metric tons of CO_2e, or approximately 30 percent from the state's projected 2020 emissions level of 596 $MMTCO_2e$ under a business-as-usual scenario (this is a reduction of 42 $MMTCO_2e$, or almost 10 percent, from 2002–2004 average emissions). The Scoping Plan also includes ARB-recommended GHG reductions for each emissions sector of the state's GHG inventory. The largest proposed GHG reduction recommendations are from improving emissions standards for light-duty vehicles (estimated reductions of 31.7 $MMTCO_2e$), implementation of the Low Carbon Fuel Standard (15.0 $MMTCO_2e$) program, energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 $MMTCO_2e$), and a renewable portfolio standard for electricity production (21.3 $MMTCO_2e$). The Scoping Plan identifies the local equivalent of AB 32 targets as a 15 percent reduction below baseline GHG emissions level, with baseline interpreted as GHG emissions levels between 2003 and 2008.

A key component of the Scoping Plan is the Renewable Portfolio Standard, which is intended to increase the percentage of renewables in California's electricity mix to 33 percent by year 2020, resulting in a reduction of 21.3 $MMTCO_2e$. Sources of renewable energy include, but are not limited to, biomass, wind, solar, geothermal, hydroelectric, and anaerobic digestion. Increasing the use of renewables will decrease California's reliance on fossil fuels, thus reducing GHG emissions.

The Scoping Plan states that land use planning and urban growth decisions will play important roles in the state's GHG reductions because local governments have primary authority to plan, zone, approve, and permit how land is developed to accommodate population growth and the changing needs of their jurisdictions. (Meanwhile, ARB is also developing an additional protocol for community emissions.) ARB further acknowledges that decisions on how land is used will have large impacts on the GHG emissions that will result from the transportation, housing, industry, forestry, water, agriculture, electricity, and natural gas emissions sectors. The Scoping Plan states that the ultimate GHG reduction assignment to local government operations is to be determined. With regard to land use planning, the Scoping Plan expects approximately 5.0 $MMTCO_2e$ will be achieved associated with implementation of Senate Bill 375, which is discussed further below. The Climate Change Proposed Scoping Plan was approved by ARB on December 11, 2008.

The First Update of the Scoping Plan was approved by the ARB on May 22, 2014, which looked past 2020 to set mid-term goals (2030-2035) on the road to reaching the 2050 goals.

Senate Bill 1368

Senate Bill (SB) 1368 (codified at Public Utilities Code Chapter 3) is the companion bill of AB 32. SB 1368 required the California Public Utilities Commission (CPUC) to establish a GHG emissions performance standard for baseload generation from investor-owned utilities by February 1, 2007. The bill also required the California Energy Commission (CEC) to establish a similar standard for local publicly owned utilities by June 30, 2007. These standards cannot exceed the GHG emission rate from a baseload combined-cycle natural-gas-fired plant. The legislation further requires that all electricity provided to California, including imported electricity, must be generated from plants that meet the standards set by the CPUC and the CEC.

Senate Bill 1078 and Governor's Order S-14-08 (California Renewables Portfolio Standards)

Senate Bill 1078 (Public Utilities Code Sections 387, 390.1, 399.25 and Article 16) addresses electricity supply and requires that retail sellers of electricity, including investor-owned utilities and community choice aggregators, provide a minimum 20 percent of their supply from renewable sources by 2017. This Senate Bill will affect statewide GHG emissions associated with electricity generation. In 2008, Governor Schwarzenegger signed Executive Order S-14-08, which set the Renewables Portfolio Standard target to 33 percent by 2020. It directed state government agencies and retail sellers of electricity to take all appropriate actions to implement this target. Executive Order S-14-08 was later superseded by Executive Order S-21-09 on September 15, 2009. Executive Order S-21-09 directed the ARB to adopt regulations requiring 33 percent of electricity sold in the State come from

renewable energy by 2020. This Executive Order was superseded by statute SB X1-2 in 2011, which obligates all California electricity providers, including investor-owned utilities and publicly owned utilities, to obtain at least 33 percent of their energy from renewable electrical generation facilities by 2020, with interim targets of 20 percent by 2013 and 25 percent by 2016.

ARB is required by current law, AB 32 of 2006, to regulate sources of GHGs to meet a state goal of reducing greenhouse gas emissions to 1990 levels by 2020 and an 80 percent reduction of 1990 levels by 2050. The CEC and CPUC serve in advisory roles to help ARB develop the regulations to administer the 33 percent by 2020 requirement. ARB is also authorized to increase the target and accelerate and expand the time frame.

Mandatory Reporting of Greenhouse Gas Emissions

Reporting of greenhouse gases by major sources is required by the California Global Warming Solutions Act (AB 32, 2006). Revisions to the existing ARB mandatory GHG reporting regulation were considered at the board hearing on December 16, 2010. The revised regulation was approved by the California Office of Administrative Law and became effective on January 1, 2012. The revised regulation affects industrial facilities, suppliers of transportation fuels, natural gas, natural gas liquids, liquefied petroleum gas, and carbon dioxide, operators of petroleum and natural gas systems, and electricity retail providers and marketers.

Cap-and-Trade Regulation

The cap-and-trade regulation is a key element in California's climate plan. It sets a statewide limit on sources responsible for 85 percent of California's greenhouse gas emissions, and establishes a price signal needed to drive long-term investment in cleaner fuels and more efficient use of energy. The cap-and-trade rules came into effect on January 1, 2013 and apply to large electric power plants and large industrial plants. In 2015, they will extend to fuel distributors (including distributors of heating and transportation fuels). At that stage, the program will encompass around 360 businesses throughout California and nearly 85 percent of the state's total greenhouse gas emissions.

Under the cap-and-trade regulation, companies must hold enough emission allowances to cover their emissions, and are free to buy and sell allowances on the open market. California held its first auction of greenhouse gas allowances on November 14, 2012. California's GHG cap-and-trade system will reduce GHG emissions from regulated entities by approximately 16 percent, or more, by 2020.

CALIFORNIA BUILDING CODE

The California Building Code contains standards that regulate the method of use, properties, performance, or types of materials used in the construction, alteration, improvement, repair, or rehabilitation of a building or other improvement to real property. The California Building Code is adopted every three years by the Building Standards Commission (BSC). In the interim, the BSC also adopts annual updates to make necessary mid-term corrections. The CBC standards apply statewide; however, a local jurisdiction may amend a CBC standard if it makes a finding that the amendment is reasonably necessary due to local climatic, geological, or topographical conditions.

Green Building Standards

In essence, green buildings standards are indistinguishable from any other building standards. Both are contained in the California Building Code and regulate the construction of new buildings and improvements. The only practical distinction between the two is that whereas the focus of traditional building standards has been protecting public health and safety, the focus of green building standards is to improve environmental performance.

AB 32, which mandates the reduction in greenhouse gas emissions in California to 1990 levels by 2020, increased the urgency around the adoption of green building standards. In its scoping plan for the implementation of AB 32, the ARB identified energy use as the second largest contributor to California's GHG emissions, constituting roughly 25 percent of all such emissions. In recommending a green building strategy as one element of the scoping plan, the ARB estimated that green building standards would reduce GHG emissions by approximately 26 million metric tons of CO_2e ($MMTCO_2e$) by 2020 (ARB 2015c).

2013 Green Building Code

The 2013 California Green Building Standards Code is a code with mandatory and/or voluntary requirements for new residential and nonresidential buildings throughout California. The code is also known as the CALGreen Code. In short, the code is established to reduce construction waste, make buildings more efficient in the use of materials and energy and reduce environmental impact during and after construction. In addition to the new statewide mandates, the code encourages local governments to adopt more stringent voluntary provisions, known as Tier 1 and Tier 2 provisions, to further reduce greenhouse gas emissions, improve energy efficiency, and conserve natural resources. If a local government adopts one of the tiers, the provisions become mandates for all new construction within that jurisdiction.

SAN LUIS OBISPO COUNTY AIR POLLUTION CONTROL DISTRICT

The SLOAPCD is a local public agency with the primary mission of realizing and preserving clean air for all county residents and businesses. Responsibilities of the SLOAPCD include, but are not limited to, preparing plans for the attainment of ambient air quality standards, adopting and enforcing rules and regulations concerning sources of air pollution, issuing permits for stationary sources of air pollution, inspecting stationary sources of air pollution and responding to citizen complaints, monitoring ambient air quality and meteorological conditions, and implementing programs and regulations required by federal and state regulatory requirements.

GHG Significance Thresholds

The SLOAPCD has adopted recommended GHG significance thresholds. These thresholds are based on AB 32 GHG emission reduction goals, which take into consideration the emission reduction strategies outlined in ARB's Scoping Plan. The GHG significance thresholds include one qualitative threshold and two quantitative thresholds options for evaluation of operational GHG emissions. The qualitative threshold option is based on a consistency analysis in comparison to a Qualified Greenhouse Gas Reduction Strategy, or equitably similar adopted policies, ordinances and programs. If a project complies with a Qualified Greenhouse Gas Reduction Strategy that is specifically applicable to the project, then the project would be considered to have a less-than-significant impact. The two quantitative threshold options include: 1) a bright-line threshold of 1,150 $MTCO_2e$/year; and 2) an efficiency threshold of 4.9 $MTCO_2e$/service population (residents+employees)/year. An additional GHG significance threshold of 10,000 $MTCO_2e$/year is proposed for industrial stationary sources. The applicable GHG significance threshold to be used would depend on the type of project being proposed. Projects with GHG emissions that do not exceed the selected threshold would be considered to have a less-than-significant impact and would not conflict with applicable GHG-reduction plans, policies, or regulations. The SLOAPCD's GHG emission thresholds are summarized in Table 16.

Table 16
SLOAPCD Greenhouse Gas Thresholds of Significance

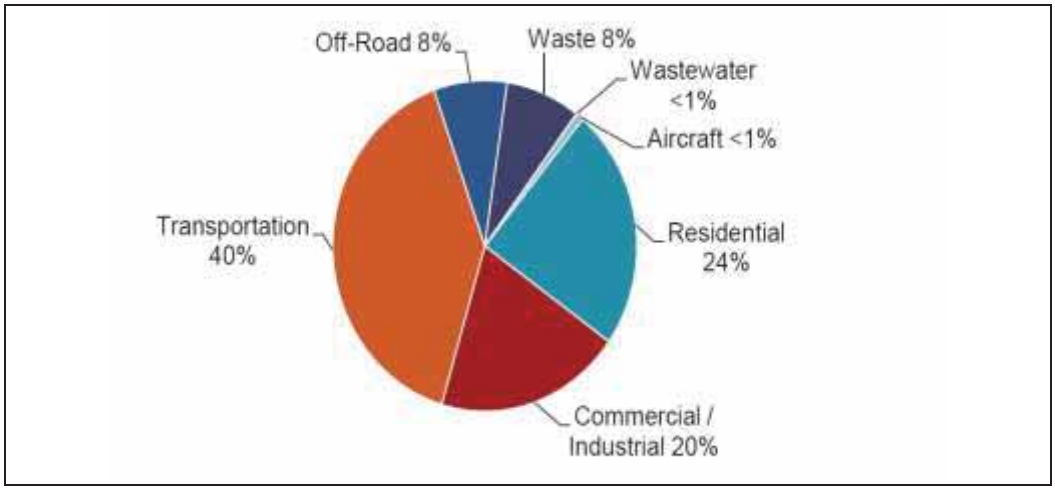
Project	Draft Threshold
Projects other than Stationary Sources	1. Compliance with Qualified GHG Reduction Strategy; or 2. 1,150 MT CO_2e/year; or 3. 4.9 MT CO_2e/SP/year (residents+employees)
Stationary Sources (Industrial)	10,000 MT CO_2e/year
Construction	Amortized over the project life and added to operation GHG emissions
Source: SLOAPCD 2012	

CITY OF PASO ROBLES CLIMATE ACTION PLAN

The City of Paso Robles Climate Action Plan (CAP) was adopted by the City Council on November 18th, 2013. The CAP is a long-range plan to reduce greenhouse gas (GHG) emissions from City government operations and community activities within Paso Robles and prepare for the anticipated effects of climate change. The CAP will also help achieve multiple community goals such as lowering energy costs, reducing air pollution, supporting local economic development, and improving public health and quality of life (City of Paso Robles, 2013).

According to the GHG emissions inventory identified in the CAP, in 2005, the Paso Robles community emitted approximately 169,557 metric tons of carbon dioxide equivalent GHG emissions ($MTCO_2e$), as a result of activities that took place within the transportation, residential energy use, commercial and industrial energy use, off-road vehicles and equipment, solid waste, aircraft and wastewater sectors. As shown in Figure 3, the largest contributors of GHG emissions were the transportation (40 percent), residential energy use (24 percent) and commercial/industrial energy use (20 percent) sectors. The remainder of emissions resulted from the solid waste (eight percent), off-road vehicles and equipment (8 percent), aircraft (less than one percent), and wastewater (less than one percent) sectors (City of Paso Robles, 2013).

Figure 3
City of Paso Robles
Community-wide GHG Emissions by Sector (2005)



City of Paso Robles, 2013

In accordance with SLOAPCD-recommended significance thresholds, as discussed above, projects that are determined to be consistent with the GHG-reduction plan, or in this case the CAP, would be considered to have a less-than-significant impact. To assist with this determination, the CAP includes a worksheet that identifies various "mandatory", as well as, "voluntary" measures. All "mandatory" actions must be incorporated as binding and enforceable components of the project to be considered consistent with the CAP. If a project cannot meet one or more of the "mandatory" actions, substitutions may be allowed provided equivalent reductions can be achieved. In addition, to demonstrate consistency with the CAP, all required measures must be incorporated as binding and enforceable components of the project.

IMPACT ANALYSIS

GHG impacts attributable to the proposed project are summarized in Table 17.

Table 17
Summary of Project-Related Greenhouse Gas Emissions Impacts

GHG Impacts	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
A) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	■	☐	☐
B) Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	■	☐	☐

METHODOLOGY

The methodologies used for quantification of GHG emissions are consistent with those discussed earlier in this report for the quantification of criteria air pollutants. Modeling assumptions and output files are included in Appendix D of this report.

THRESHOLDS OF SIGNIFICANCE

In accordance with SLOAPCD recommended significance thresholds, the proposed project would be considered to have a potentially significant impact on the environment if project-generated emissions would exceed 1,150 $MTCO_2e$/year.

The City of Paso Robles CAP includes a "Consistency Worksheet", which identifies various mandatory and voluntary actions designed to reduce GHG emissions. The *CAP Consistency Worksheet* can be used to demonstrate project-level compliance with the CAP. Consistency with the City of Paso Robles CAP would be considered potentially significant if the proposed project does not incorporate, at a minimum, the mandatory project-level GHG-reduction measures, as identified in the *CAP Consistency Worksheet*.

PROJECT IMPACTS AND MITIGATION MEASURES

Impact GHG-A. ***Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? and***

Impact GHG-B. ***Would the project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?***

Estimated GHG emissions attributable to future development would be primarily associated with increases of CO_2 from mobile sources. To a lesser extent, other GHG pollutants, such as CH_4 and N_2O, would also be generated. Short-term and long-term GHG emissions associated with the development of the proposed project are discussed in greater detail, as follows:

Short-term Construction GHG Emissions

Estimated increases in GHG emissions associated with construction of the proposed project are summarized in Table 18. Based on the modeling conducted, annual GHG emissions associated with construction of the main hotel would total approximately 643.4 $MTCO_2e$. Future construction of the proposed second hotel, boutique hotel, and lodge

would generate an additional 519 $MTCO_2e$. Amortized GHG emissions, when averaged over the assumed 25-year life of the project, would total approximately 46.5 $MTCO_2e$/year. There would also be a small amount of GHG emissions from waste generated during construction; however, this amount is speculative. Actual emissions may vary, depending on the final construction schedules, equipment required, and activities conducted.

Table 18
Construction-Generated GHG Emissions Without Mitigation

Construction Year	GHG Emissions ($MTCO_2e$/Year)
Main Hotel	643.4
Second Hotel, Boutique Hotel, & Lodge	519.0
Construction Total	1,162.4
Amortized Net Change in Construction Emissions	46.5
Amortized emissions are quantified based on an estimated 25-year project life. Refer to Appendix D for modeling assumptions and results.	

Long-term Operational GHG Emissions

Estimated long-term increases in GHG emissions associated with the proposed project are summarized in Tables 19 through 21. As depicted, operational GHG emissions for the main hotel would total approximately 1,904.6 $MTCO_2e$/year. Future construction of the second hotel, boutique hotel, and lodge would generate an additional 2,059.5 $MTCO_2e$/year. In total the project would generate roughly 3,964 $MTCO_2e$/year under full buildout conditions. With the inclusion of amortized construction emissions and reductions associated with the removal of the existing residential dwelling, the project would result in an estimated overall net increase of approximately 3,997 $MTCO_2e$/year. A majority of the increased GHG emissions would be associated with energy use and the operation of motor vehicles. GHG emissions would also be associated with solid waste generation, as well as, water use and conveyance.

Based on the modeling conducted, net increases in GHG emissions would exceed the SLOAPCD's significance threshold of 1,150 $MTCO_2e$/year. If unmitigated, project-generated GHG emissions would also conflict with GHG-reduction planning efforts, including the City of Paso Robles CAP. As a result, net increases in project-generated GHG emissions would result in a ***potentially significant*** impact.

Table 19
Operational GHG Emissions Without Mitigation – Main Hotel

Source	GHG Emissions ($MTCO_2e$/Year)
Area Source	0.01
Energy Use	923.7
Motor Vehicles	937.8
Waste Generation	33.9
Water Use and Conveyance	9.3
Total Project-Generated Emissions	1,904.6
Refer to Appendix D *for modeling assumptions and results.*	

Table 20
Operational GHG Emissions Without Mitigation –
Second Hotel, Boutique Hotel & Lodge

Source	GHG Emissions ($MTCO_2e$/Year)
Area Source	0.01
Energy Use	997.5
Motor Vehicles	1,013.4
Waste Generation	38.6
Water Use and Conveyance	9.9
Total Project-Generated Emissions	2,059.5
SLOAPCD Significance Threshold	1,150
Exceeds Significance Threshold?	No
Refer to Appendix D *for modeling assumptions and results.*	

Table 21
Summary of Total Operational GHG Emissions Without Mitigation

Project Phase	GHG Emissions ($MTCO_2e$/Year)
Main Hotel	1,904.6
Second Hotel, Boutique, and Lodge	2,059.5
Total Project-Generated Emissions	3,964.1
Amortized Construction Emissions	46.5
Removed Emissions	-13.3
Net Increase	**3,997.3**
SLOAPCD Significance Threshold	1,150
Exceeds Significance Threshold?	**Yes**
Refer to Appendix D for modeling assumptions and results.	

Mitigation Measures

GHG-1: The proposed project shall implement, at a minimum, the following GHG-reduction measures:

a. Install high efficiency lights in parking lots, streets, and other public areas.
b. Comply with mandatory California Green Building Standards Code bicycle parking standards.
c. Install bicycle facilities and/or amenities beyond those required in building standards.
d. Incorporate a pedestrian access network that internally links all uses and connects all existing or planned external streets and pedestrian facilities contiguous with the project site.
e. The project site shall be designed to minimize barriers to pedestrian access and interconnectivity.
f. Implement traffic calming improvements as appropriate (e.g., marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, median islands, mini-circles, tight corner radii, etc.).
g. Comply with CALGreen Tier 1 or Tier 2 standards for water efficiency and conservation.
h. Divert 65 percent of non-hazardous construction or demolition debris.
i. Include the planting of native and drought tolerant trees beyond those required as mitigation for tree removal.
j. Implement Mitigation Measure AQ-2.
k. Implement Mitigation Measure AQ-3,e-k.

Significance After Mitigation

As discussed earlier in this report, the *City of Paso Robles CAP* is a long-range plan to reduce greenhouse gas (GHG) emissions from City government operations and community activities within Paso Robles and prepare for the anticipated effects of climate change. The CAP will also help achieve multiple community goals such as lowering energy costs, reducing air pollution, supporting local economic development, and improving public health and quality of life (City of Paso Robles, 2013). To help achieve these goals, the CAP includes a "Consistency Worksheet", which identifies various mandatory and voluntary actions designed to reduce GHG emissions. The *CAP Consistency Worksheet* for the proposed project is included in Appendix C.

With implementation of Mitigation Measure GHG-1, the proposed project would be consistent with the City's CAP. Mitigation Measure AQ-2, includes additional measures that would further reduce GHG-emissions, including designated parking space for alternatively fueled vehicles, the installation of energy-saving systems in hotel guest rooms, and the installation of onsite bicycle facilities in excess of current building standards. Implementation of Mitigation Measure AQ-3,e-k, would help to reduce short-term GHG emissions, including emissions of black carbon. With mitigation, increased GHG emissions associated with the proposed project would be considered to have a ***less-than-significant*** impact and would not conflict with GHG-reduction planning efforts, including the *City of Paso Robles CAP*.

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APPENDIX A

SLOAPCD ASBESTOS DEMOLITION/ RENOVATION NOTIFICATION FORM

SLO COUNTY apcd | Air Pollution Control District
San Luis Obispo County

3433 Roberto Court, San Luis Obispo, CA 93401
805-781-5912 – FAX: 805-781-1002

Naturally Occurring Asbestos Construction and Grading Project Form

Applicant Information/Property Owner		**Project Name**	
Address		**Project Address**	
City, State, Zip		**City, State, Zip**	
Email for Contact Person		**Project Site Latitude, Longitude**	**Assessors Parcel Number**
Phone Number	**Date Submitted**	**Agent**	**Phone Number**

Check Applicable	DESCRIPTION (attach applicable required information)	APCD REQUIREMENT 1	APCD REQUIREMENT 2
	Project is subject to ATCM regulation but exempt (See Website Map) http://www.slocleanair.org/business/pdf/serpentine-	Geological Evaluation	Exemption Request Form
	Project is subject to ATCM regulation and project is disturbing more than one acre	Geological Evaluation	Dust Control Measure Plan
	Project is subject to ATCM regulation and project is disturbing less than one acre	Geological Evaluation	Mini Dust Control Measure Plan

Please note that the applicant will be invoiced for any associated fees.

REQUIRED APPLICANT SIGNATURE:

Legal Declaration/Authorized Signature _____ Date _____

APCD OFFICE USE ONLY				
Geological Evaluation	**Exemption Request Form**	**Dust Control Measure Plan**		**Monitoring, Health and Safety Plan**
Approved Yes ☐ No ☐	Approved: Yes ☐ No ☐	Approved: Yes ☐ No ☐		Approved: Yes ☐ No ☐
Comments:	Comments:	Comments:		
APCD Staff:	Date Received:	Date Reviewed	OIS Site #	OIS Project #
Invoice No.	Basic Fee	Additional Fees	Billable Hrs	Total Fees

SLO COUNTY apcd | Air Pollution Control District
San Luis Obispo County

3433 Roberto Court, San Luis Obispo, CA 93401
805-781-5912 – FAX: 805-781-1002

Naturally Occurring Asbestos
Construction & Grading Project Exemption Request Form

Applicant Information/ Property Owner		Project Name	
Address		Project Address	
City, State, Zip		City, State, Zip	
Email Address		Project Site Latitude, Longitude	Assessors Parcel Number
Phone Number	Date Submitted	Agent	Phone Number

The District may provide an exemption from Section 93105 of the California Code of Regulations - Asbestos Airborne Toxic Control Measu For Construction, Grading, Quarrying, And Surface Mining Operations for any property that has any portion of the area to be disturbed located in a geographic ultramafic rock unit; if a registered geologist has conducted a geologic evaluation of the property and determined that no serpentine or ultramafic rock is likely to be found in the area to be disturbed. Before an exemption can be granted, the owner/operator must provide a copy of a report detailing the geologic evaluation to the District for consideration. The District will approve or deny the exemption within 90 days. An outline of the required geological evaluation is provided in the District handout **"ASBESTOS AIRBORNE TOXIC CONTROL MEASURES FOR CONSTRUCTION, GRADING, QUARRYING, AND SURFACE MINING OPERATIONS – Geological Evaluation Requirements." See the APCD Website map: http://www.slocleanair.org/business/asbestos.php**

NOTE: A basic exemption evaluation fee of $172.00 will be charged.

APPLICANT MUST SIGN BELOW:

I request the San Luis Obispo County Air Pollution Control District grant this project exemption from the requirements of the ATCM based on the attached geological evaluation.

Legal Declaration/Authorized Signature

Date:

OFFICE USE ONLY - APCD Required Element – Geological Evaluation			
Date Received:	Date Reviewed:	OIS Site #:	OIS Project #:
	APCD Staff:	Approved	Not Approved
Comments:			

ASBESTOS DEMOLITION/RENOVATION NOTIFICATION FORM
GENERAL INFORMATION

The asbestos NESHAP, 40 CFR, Part 61, Subpart M, requires written notification of demolition or renovation operations under Section 61.145. Only complete notification forms are acceptable. A complete accredited asbestos survey must accompany the notification in order to be complete. Incomplete notification may result in enforcement action.

The original notification should be typewritten and **postmarked or delivered** no later than **ten working days** prior to the beginning of the asbestos removal activity (dates specified in Section VIII) or demolition (dates specified in Section IX). Notification fees apply (See attached fee schedule). Please submit the notification form to:

AIR POLLUTION CONTROL DISTRICT
COUNTY OF SAN LUIS OBISPO

Mark Elliott, Air Quality Specialist
Enforcement Division
3433 Roberto Court
San Luis Obispo, CA 93401
(805) 781-5912 Phone
(805) 781-1002 Fax

Tim Fuhs, Air Quality Specialist
Enforcement Division
3433 Roberto Court
San Luis Obispo, CA 93401
(805) 781-5912 Phone
(805) 781-1002 Fax

Revisions are required if there are any changes to removal or demolition dates, amounts of asbestos present or removed, or to contractors, transporters, or disposal site. There is a $115.00 Revision Fee. Revisions may be faxed to the fax number above.

I. **Type of Notification:** Enter "O" if the notification is a first time or original notification, "R" if the notification is a revision of a prior notification, or "C" if the activity has been cancelled.

II. **Facility Information:** Enter the names, addresses, contact persons and telephone numbers of the following:

Owner: Legal owner of the site at which asbestos is being removed or demolition planned.

Removal Contractor: Contractor hired to remove asbestos.

Other Operator: Demolition contractor, general contractor, or any other person who leases, operates, controls, or supervises the site.

If known, the name of the site supervisor should be entered as the contact person for the notification. If additional parties share responsibility for the site, demolition activity, renovations or ACM removal, include complete information (including name, address, contact person and telephone number) on additional sheets submitted with the form.

III. **Type of Operation:** Enter "D" for facility demolition, "R" for facility renovation, "O" for ordered demolitions, or "E" for emergency renovations.

IV. **Is Asbestos Present?** Answer "Yes" or "No" regardless of the amount or type of asbestos. Pursuant to Section 61.145.a, submit a complete accredited asbestos survey with this notification.

V. **Facility Description:** Provide detailed information on the areas being renovated or demolished. If applicable, provide the floor numbers and room numbers where renovations are to be conducted.

Site Location: Provide information needed to locate site in the event that the address alone is inadequate.

Building Size: Provide in square meters or square feet.

No. of Floors: Enter the number of floors including basement or ground level floors.

Age in Years: Enter approximate age of the facility.

Present Use/Prior Use: Describe the primary use of the facility or enter the following codes:
H – Hospital; S – School; P – Public Building; O – Office; I – Industrial; U – University or College;
B – Ship; C – Commercial; or R – Residence.

VI. **Asbestos Detection Procedure:** Describe methods and procedures used to determine whether ACM is present at the site, including a description of the analytical methods employed. This must be performed by a licensed asbestos consultant or site surveillance technician.

VII. **Approximate Amount of Asbestos Including:** (1) Regulated ACM to be removed (including nonfriable ACM to be sanded, ground or abraded); (2) Category I ACM not removed; and (3) Category II ACM not removed.

For both removals and demolitions, enter the amount of RACM to be removed by entering a number in the appropriate box and an "X" for the unit. For demolitions only, enter the amount of Category I and II nonfriable asbestos not to be removed in the appropriate boxes.

Category I nonfriable material includes packing, gaskets, resilient floor covering and asphalt roofing materials containing more than one percent asbestos. Category II nonfriable material includes any material, excluding Category I products, containing more than one percent asbestos, that when dry, cannot be crumbled, pulverized or reduced to powder.

VIII. **Scheduled Dates of Asbestos Removal (MM/DD/YY):** Enter scheduled dates (month/day/year) for asbestos removal work. Asbestos removal work includes any activity, including site preparation, which may break up, dislodge or disturb asbestos material.

IX. **Scheduled Dates of Demo/Renovation (MM/DD/YY):** Enter scheduled dates (month/day/year) for beginning and ending the planned demolition or renovation.

X. **Description of Planned Demolition or Renovation Work and Method(s) to be Used:** Include in this description of the demolition and renovation techniques to be used and a description of the areas and types of facility components which will be affected by this work.

XI. **Description of Engineering Controls and Work Practices to be Used to Control Emissions of Asbestos at the Demolition and Renovation Site:** Describe the work practices and engineering controls selected to ensure compliance with the requirements of the regulations, including both asbestos removal and waste-handling emission control procedures.

XII. **Waste Transporter:** Name, address and telephone number of the asbestos waste transporter.

XIII. **Waste Disposal Site:** Identify the waste disposal site, including the complete name, location and telephone number of the facility. If ACM is to be disposed of at more than one site, provide complete information on an additional sheet submitted with the form.

XIV. **If Demolition Ordered by a Government Agency, please identify the Agency below:** Provide the name of the responsible official, title and agency, authority under which the order was issued, the dates of the order and the dates of the ordered demolition.

XV. **Emergency Renovation Information:** Provide the date and time of the emergency, a description of the event and a description of unsafe conditions, equipment damage or financial burden resulting from the event. The information should be detailed enough to evaluate whether a renovation falls within the emergency exception.

XVI. **Description of Procedures to be Followed in the Event that Unexpected Asbestos is Found or Previously Nonfriable Asbestos Material Becomes Crumbled, Pulverized or Reduced to Powder:** Provide adequate information to demonstrate that appropriate actions have been considered and can be implemented to control asbestos emissions adequately, including at a minimum, conformance with applicable work practice standards.

XVII. **Certification of Presence of Trained Supervisor:** One year after promulgation of the applicable regulation, the notifier must certify that a person trained in asbestos-removal procedures will supervise the demolition or renovation. The supervisor is responsible for the activity on-site. Evidence that the training has been completed by the supervisor must be available for inspection during normal business hours.

XVIII. **Certification:** Please certify the accuracy and completeness of the information provided by signing and dating the notification form.

Asbestos NESHAP Fees

Demolition Projects Without Asbestos	
Notification Fee	$ 402.00
Demolition or Renovation Projects With Asbestos	
Less than 260 lineal feet of material; less than 160 square feet of material; or less than 35 cubic feet of material	$ 402.00
260 lineal feet or more of material but less than 1,000 lineal feet of material; 160 square feet or more of material but less than 1,000 square feet of material; or 35 cubic feet or more of material but less than 1,000 cubic feet of material	$ 632.00
1,000 lineal, square, or cubic feet or more of material but less than 10,000 lineal, square, or cubic feet of material	$ 920.00
10,000 lineal, square, or cubic feet or more of material	$1,495.00
Revisions	
Any notification revision	$ 115.00

DEMOLITION: Notification and ten-working-day wait required on all subject demolitions even if Regulated Asbestos Containing Material (RACM) is not present.

RENOVATION: Notification and ten-working-day wait required on all subject renovations when RACM is more than threshold amount (threshold amounts: 260 LF, 160 SF, 35 CF). When RACM is **below** threshold amount, notification is not required.

RESIDENTIAL DEMOLITION AND RENOVATION: NESHAP notification requirements may not apply to a single family residential structure demolition or renovation project **unless** the residential property is subject to NESHAP by other means. Call the San Luis Obispo County Air Pollution Control District (APCD)for applicability before you demolish any structure.

*Additional fees **MAY** apply to any project if significant APCD staff time is needed to determine compliance.

Annual notifications for small, unexpected jobs are assessed the appropriate fee and are due upon notification submittal.

For additional information, an Asbestos NESHAP Notification Form, or other Asbestos related issues, check our website at www.slocleanair.org/business/asbestos.asp or call the APCD at 805-781-5912.

NOTIFICATION OF DEMOLITION AND RENOVATION

OPERATOR PROJECT #	POSTMARK	NOTIFICATION #	DATE RECEIVED
I. TYPE OF NOTIFICATION (O - Original R - Revised C - Cancelled CO - Courtesy)			
II. FACILITY INFORMATION (Identify Owner, Removal Contractor, and Other Operator)			
OWNER NAME:			
ADDRESS:			
CITY:	STATE:	ZIP:	
CONTACT:	EMAIL:	TELEPHONE:	
REMOVAL CONTRACTOR:			
ADDRESS:			
CITY:	STATE:	ZIP:	
CONTACT:	EMAIL:	TELEPHONE:	
OTHER OPERATOR:			
ADDRESS:			
CITY:	STATE:	ZIP:	
CONTACT:	EMAIL:	TELEPHONE:	
III. TYPE OF OPERATION D - Demo O - Ordered Demo (*Must have written order from municipality*) R - Renovation E - Emergency Renovation/Demolition (*Written approval/authorization issued by APCD*)			
IV. IS ASBESTOS PRESENT? Yes / No (Circle one) **Attach an accredited asbestos survey in order to be accepted**			
V. FACILITY DESCRIPTION (Include building name, number, and floor or room number)			
BUILDING NAME:			
ADDRESS:			
CITY:	STATE:	COUNTY:	
SITE LOCATION:			
BUILDING SIZE:	NUMBER OF FLOORS:	AGE IN YEARS:	
PRESENT USE:	PRIOR USE:		
VI. PROCEDURE INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL			

VII. APPROXIMATE AMOUNT OF 1. Regulated ACM to be removed 2. Category I ACM not removed 3. Category II ACM not removed	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL **NOT** TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		UNIT OF MEASURE
		CAT I	CAT II	CAT I	CAT II	
PIPES						Linear Feet
SURFACE AREA						Square Feet
VOL RACM OFF FACILITY COMPONENT						Cubic Feet

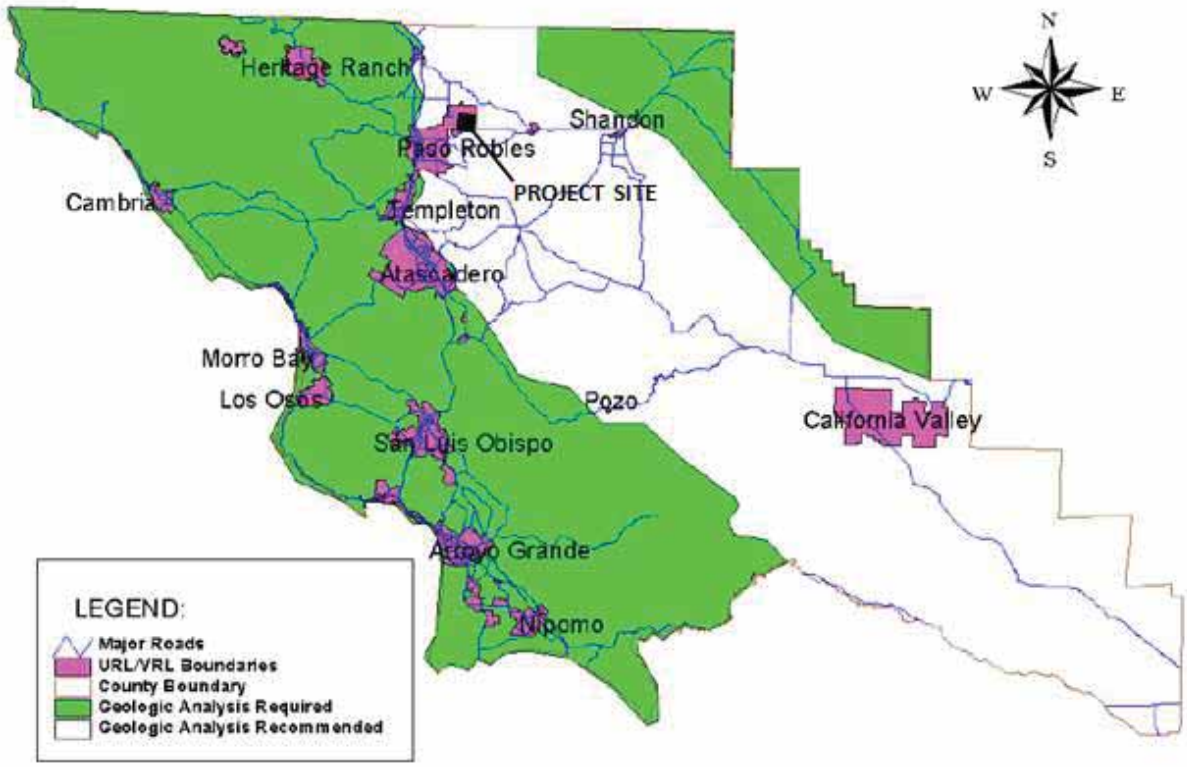
VIII. SCHEDULED DATES ASBESTOS REMOVAL NOTE: Date Changes Require Revisions Faxed to (805) 781-1002 and a **per revision fee of $115.00.**	START:	COMPLETE:
IX. SCHEDULED DATES DEMO/RENOVATION NOTE: Date Changes Require Revisions Faxed to (805) 781-1002 and a **per revision fee of $115.00.**	START:	COMPLETE:

NOTIFICATION OF DEMOLITION AND RENOVATION *(Continued)*

X.	DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK, AND METHOD(S) TO BE USED:		
XI.	DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS AND TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION AND RENOVATION SITE:		
XII.	ASBESTOS WASTE TRANSPORTER #1:		
	OWNER NAME:		
	ADDRESS:		
	CITY:	STATE:	ZIP:
	CONTACT:		TELEPHONE:
	ASBESTOS WASTE TRANSPORTER #2:		
	NAME:		
	ADDRESS:		
	CITY:	STATE:	ZIP:
	CONTACT:		TELEPHONE:
XIII.	ASBESTOS WASTE DISPOSAL SITE:		
	NAME:		
	ADDRESS:		
	CITY:	STATE:	ZIP:
	CONTACT:		TELEPHONE:
XIV.	IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW AND ATTACH ORDER		
	NAME:	TITLE:	
	AUTHORITY:		
	DATE OF ORDER (MM/DD/YY):	DATE ORDERED TO BEGIN (MM/DD/YY):	
	ADDRESS:		
XV.	FOR EMERGENCY RENOVATIONS (*Written authorization from the APCD is required*):		
	DATE AND HOUR OR EMERGENCY (MM/DD/YY):		
	DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT:		
	EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN:		
XVI.	DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED TO POWDER:		
XVII.	I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (REQUIRED 1 YEAR AFTER PROMULGATION).		
	(Print Name)	(Signature of Owner/Operator)	(Date)
XVIII.	I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.		
	(Print Name)	(Signature of Owner/Operator)	(Date)

APPENDIX B

NATURALLY OCCURRING ASBESTOS ZONES



Source: SLOAPCD 2012

APPENDIX C

CONSISTENCY WITH CITY OF PASO ROBLES CLIMATE ACTION PLAN & SLOAPCD-RECOMMENDED STANDARD AIR QUALITY MITIGATION MEASURES

CITY OF PASO ROBLES CLIMATE ACTION PLAN CONSISTENCY WORKSHEET

A. Project Information

Date:	6/12/2016			
Project Name:	PASO ROBLES RESORT HOTEL			
Project Address:	APNs 025-431-050, 025-436-029, 025-436-030			
Project Type:	Resort Lodging			
Project Size:	291 rooms total. 39.62 acres.			
Existing General Plan Land Use Designation(s):	PARKS OPEN SPACE / RESORT LODGING OVERLAY			
Proposed General Plan Land Use Designation(s):	N/A	Is Proposed Land Use Designation Consistent with Existing GP Land Use Designation(s)?:	Yes ☑	No ☐
Existing Zoning Designations(s):	PARKS OPEN SPACE / RESORT LODGING OVERLAY			
Proposed Zoning Designations(s):	N/A	Is Proposed Zoning Designation Consistent with Existing Zoning Designation(s)?:	Yes ☑	No ☐
Project Service Population (Residents + Employees):	N/A			
Brief Project Description:	The proposed project includes the construction of a total of four hotel facilities. The initial phase of construction is anticipated to begin in 2017 and would include the construction of an approximate 136-room main hotel. A second hotel, lodge, and boutique hotel totaling approximately 155 rooms, may be constructed in future years, depending on market conditions.			
Compliance Checklist Prepared By:	Kurt Legleiter, Principal, AMBIENT Air Quality & Noise Consulting, LLC			

**Existing General Plan Land Use Designations can be found at website url: http://www.prcity.com/government/departments/commdev/planning/land-use-maps.asp*

**Existing Zoning Designations can be found at website url: http://www.prcity.com/Government/departments/commdev/planning/zoning.asp*

CITY OF PASO ROBLES CLIMATE ACTION PLAN CONSISTENCY WORKSHEET

B. CAP Measure Compliance Worksheet

Date: 6/12/2016

Project Name: PASO ROBLES RESORT HOTEL

Measure	Project Actions	Mandatory or Voluntary	Project Compliance (Yes/No/NA)	Details of Compliance*
Energy				
Measure E-4: Incentives for Exceeding Title 24 Energy Efficiency Building Standards	Does the project exceed 2013 Title 24 Building Energy Efficiency Standards?	Voluntary	Yes ☐ No ☑ N/A ☐	
Measure E-5: Energy Efficient Public Realm Lighting Requirements	Does the project utilize high efficiency lights in parking lots, streets, and other public areas?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* Mitigation has been included to require compliance with this measure.
Measure E-6: Small-Scale On-Site Solar PV Incentive Program	Does the project include installation of small-scale on-site solar PV systems and/or solar hot water heaters? If so, what type and how much renewable energy would be generated?	Voluntary	Yes ☐ No ☐ N/A ☐	
Measure E-7: Income-Qualified Solar PV Program	Does the project include installation of small-scale on-site solar PV systems and/or solar hot water heaters on income-qualified housing units? If so, what type and how much renewable energy would be generated?	Voluntary	Yes ☐ No ☐ N/A ☐	
Transportation and Land Use				
Measure TL-1: BicycleNetwork	For subdivisions and large developments, does the project incorporate bicycle lanes, routes, and/or shared-use paths into street systems to provide a continuous network of routes, facilitated with markings, signage, and bicycle parking?	**Mandatory**	Yes ☐ No ☐ N/A ☑	*Not Applicable.* The project is not a residential development.
	For non-residential development, does the project comply with mandatory California Green Building Standards Code bicycle parking standards?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* Mitigation has been included to require compliance with this measure.
	Does the project incorporate bicycle facilities and/or amenities beyond those required?	Voluntary	Yes ☑ No ☐ N/A ☐	*Yes.* Mitigation has been included to require compliance with this measure.

CITY OF PASO ROBLES CLIMATE ACTION PLAN CONSISTENCY WORKSHEET

B. CAP Measure Compliance Worksheet (Continued)

Date: 6/12/2016

Project Name: PASO ROBLES RESORT HOTEL

Measure	Project Actions	Mandatory or Voluntary	Project Compliance (Yes/No/NA)	Details of Compliance*
Transportation and Land Use (Continued)				
Measure TL-2: Pedestrian Network	Does the project provide a pedestrian access network that internally links all uses and connects all existing or planned external streets and pedestrian facilities contiguous with the project site?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* There are no existing bike paths/lanes in the project vicinity. However, Airport Road is planned for the construction of a future bike lane. This measure has been included as mitigation.
	Does project minimize barriers to pedestrian access and interconnectivity?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* Mitigation has been included to provide a pedestrian interconnectivity between all proposed uses and to connect onsite uses to existing/planned pedestrian facilities contiguous with the project site.
	Does the project implement traffic calming improvements as appropriate (e.g., marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, median islands, mini-circles, tight corner radii, etc.)?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* Mitigation has been included to provide onsite traffic calming measures.
	Does the project incorporate pedestrian facilities and/or amenities beyond those required?	Voluntary	Yes ☐ No ☐ N/A ☐	
Measure TL-3: Expand Transit Network	Does the project provide safe and convenient access to public transit within and/or contiguous to the project area?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* There are no existing transit facilities contiguous to the project site. However, mitigation has been included to provide a shuttle service for guests to local destinations, including Paso Robles Transit/Amtrak Station.
Measure TL-6: Parking Supply Management	Does the project include a reduced number of parking spaces or utilize shared parking?	Voluntary	Yes ☐ No ☐ N/A ☐	
Measure TL-7: Electric Vehicle Network and Alternative Fueling Stations	Does the project include the installation of electric or other alternative fueling stations?	Voluntary	Yes ☑ No ☐ N/A ☐	
Measure TL-8: Infill Development	Is the project consistent with the City's land use and zoning code?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* The project site is zoned for resort lodging. The proposed project is consistent with current zoning.
	Does the project include any "smart growth" techniques, such as mixed use, higher density, and/or infill development near existing or planned transit routes, in existing community centers/downtowns, and/or in other designated areas?	Voluntary	Yes ☐ No ☐ N/A ☐	

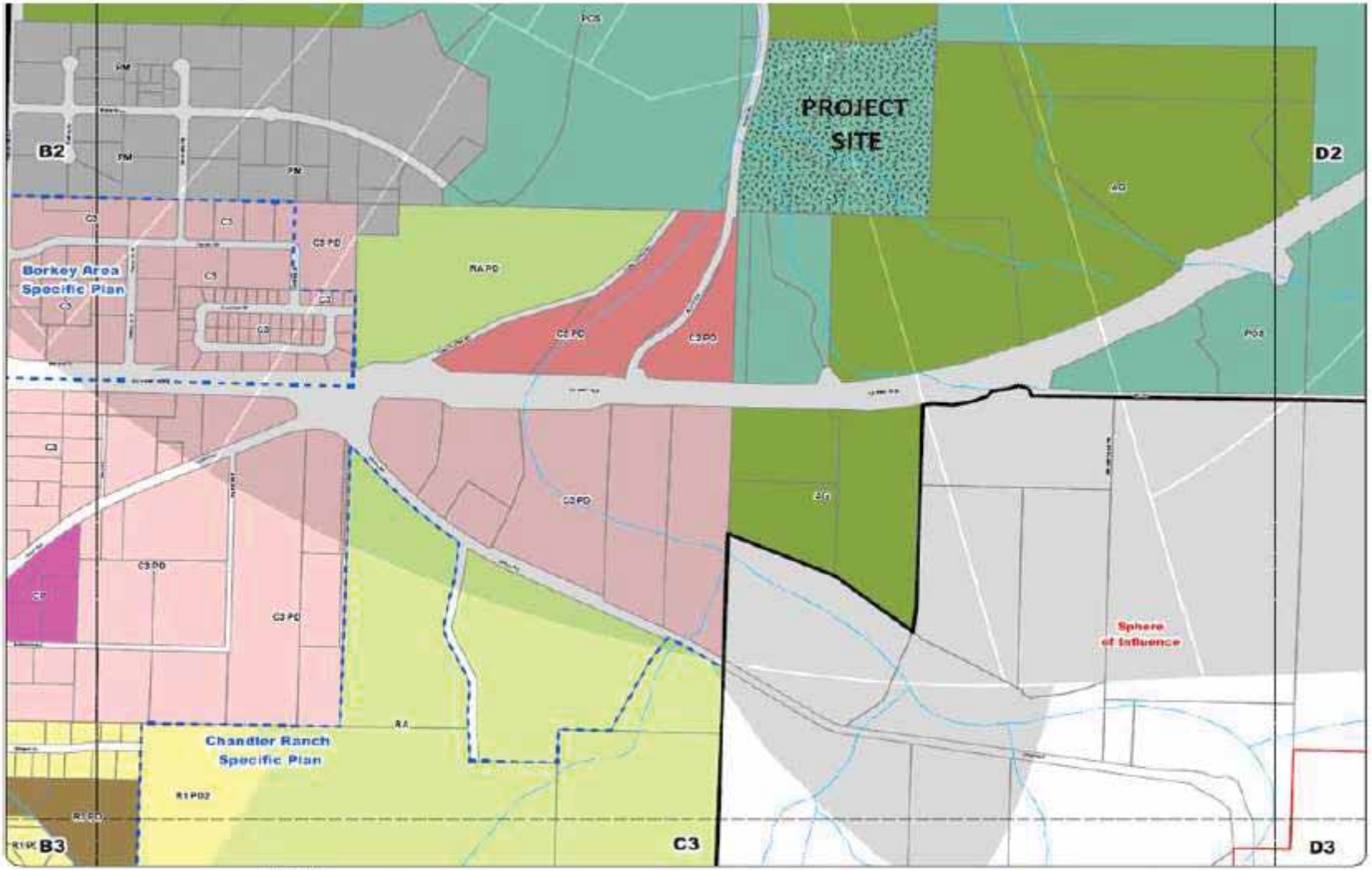
CITY OF PASO ROBLES CLIMATE ACTION PLAN CONSISTENCY WORKSHEET

B. CAP Measure Compliance Worksheet (Continued)

Date: 6/12/2016

Project Name: PASO ROBLES RESORT HOTEL

Measure	Project Actions	Mandatory or Voluntary	Project Compliance (Yes/No/NA)	Details of Compliance*
Off-Road				
Measure O-1: Equipment Upgrades, Retrofits, and Replacements	If the project involves construction or demolition, does equipment utilize low- or zero-emissions vehicles or equipment?	Voluntary	Yes ☑ No ☐ N/A ☐	*Yes.* Mitigation has been included to require compliance with this measure.
Water				
Measure W-1: Exceed SB X7-7 (Water Conservation Act of 2009), Water Conservation Target	Does the project meet CALGreen Tier 1 or Tier 2 standards for water efficiency and conservation?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* Mitigation has been included to require compliance with this measure.
	Does the project incorporate grey Voluntary water or recycled water infrastructure?	Voluntary	Yes ☐ No ☐ N/A ☐	
Solid Waste				
Measure S-1: Solid Waste Diversion Rate	If the project involves construction or demolition, will the contractor divert 65 percent of non-hazardous construction or demolition debris?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* Mitigation has been included to require compliance with this measure.
	Does the project provide receptacles for the collection of organic waste?	Voluntary	Yes ☐ No ☐ N/A ☐	
	Does the project include composting facilities?	Voluntary	Yes ☐ No ☑ N/A ☐	
Tree Planting				
Measure T-1: Tree Planting Program	Does the project include the planting of native and drought tolerant trees beyond those required as mitigation for tree removal? If so, how many?	**Mandatory**	Yes ☑ No ☐ N/A ☐	*Yes.* Mitigation has been included to require compliance with this measure.



Map C2 05.03.2011

City of El Paso de Robles

Zoning Designations

0 250 500 1,000 Feet

LEGEND

City Limit
Specific Plan
Sphere of Influence
UPRR
USGS Street
FEMA Floodway

AG, Agriculture
AP, Airport
C, Civic
C1, Commercial-General Retail
C2, Commercial-Highway
C3, Commercial/Light Industry
C-P, Commercial-Neighborhood

M, Industrial
OP, Office Professional
OS, Open Space
PF, Public Facilities
PM, Planned Industrial
POS, Parks & Open Space
R1, Residential Single Family

R2, Residential Duplex/Triplex
R3, Residential Multifamily
R3-12, Residential Multifamily
R3-15, Residential Multifamily
R3O, Residential Multifamily/Office
R4, Res Multifamily/Mobilehome
R4-20, Res Multifamily/Mobilehome

RS, Residential Multifamily
RA, Residential Agriculture
RC, Regional Commercial
RMFB, Residential Multifamily
RS, Residential Suburban
RSC, Riverside Corridor
RSFB, Residential Single Family

T/OT, Res
T-3N, Neighborhood
T-4T, Res
T-4N, Neighborhood
T-4NC, Neighborhood Center
TC-1, Town Center
TC-2, Town Center

Resort Lodging
Airport LUP
Historic Preservation
Office Professional
Agriculture
Mixed Use
Salinas River

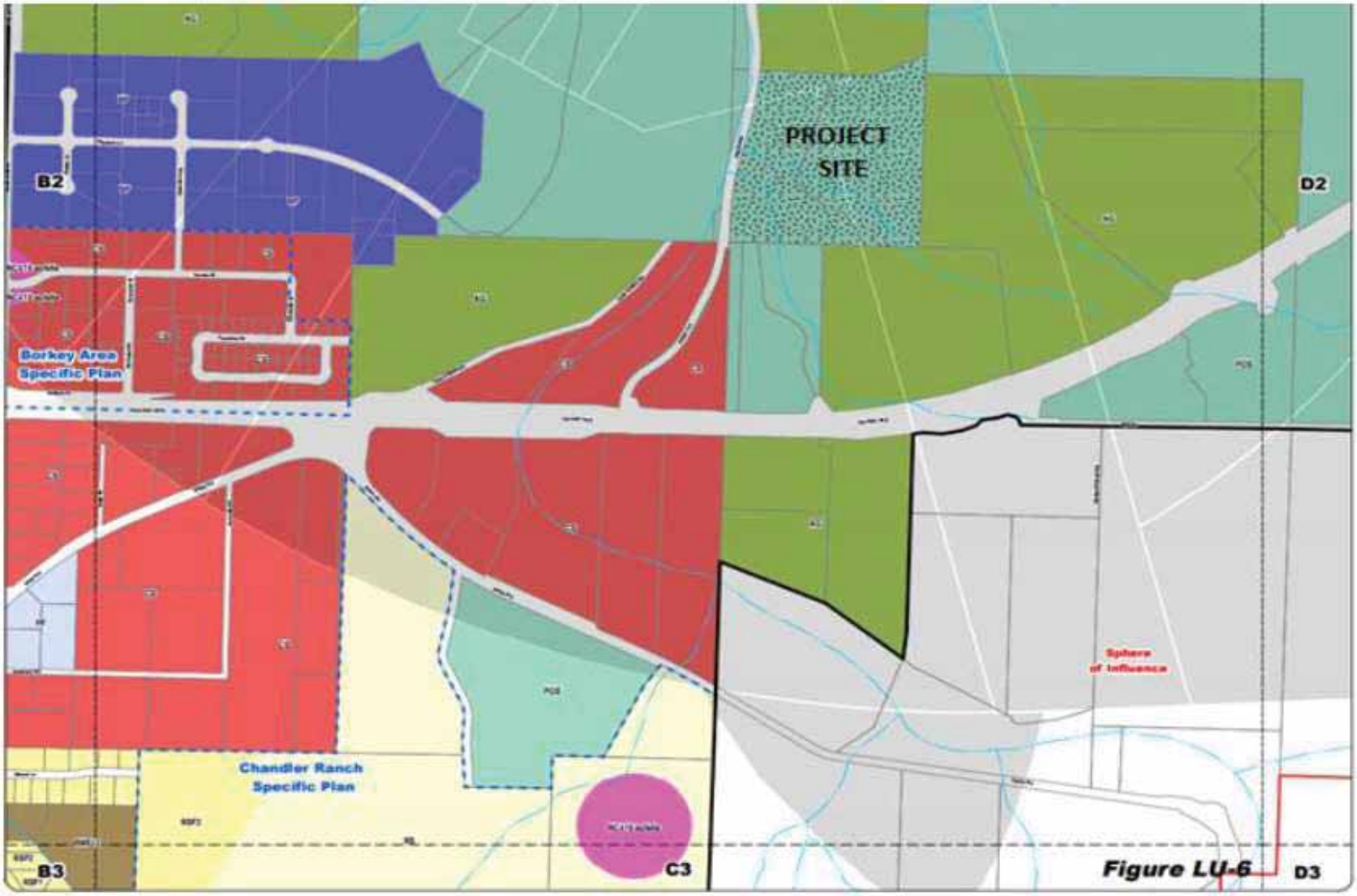


Figure LU-6

Map C2 05.03.2011
City of El Paso de Robles
Land Use Designations

Feet
0 250 500 1,000

LEGEND

City Limit
Specific Plan
Sphere of Influence
UPRR
USGS Creek
AG - Agriculture
BP - Business Park
CC - Community Commercial
CS - Commercial Service
DC - Downtown Commercial
IND - Industrial
MHP - Mobile Home Park
MU - Mixed Use
NC - Neighborhood Commercial
OP - Office / Professional
PF - Public Facilities
POS - Parks / Open Space
RC - Regional Commercial
RMF - Residential Multi Family
RS - Residential Suburban
RSF - Residential Single Family
Resort Lodging
Airport LUP
Historic Preservation
Office Professional
Agriculture
Mixed Use
Salinas River

Consistency with SLOAPCD-Recommended Standard Mitigation Measures for Operational Air Quality Impacts

SLOAPCD Standard Mitigation Measure	Proposed Mitigation Measure
1. Utilize green building materials (materials which are resource efficient, recycled, and sustainable) available locally if possible.	*Consistent*. This measure has been included as a mitigation measure.
2. Provide shade tree planting in parking lots to reduce evaporative emissions from parked vehicles. Design should provide 50% tree coverage within 10 years of construction using low ROG emitting, low maintenance native drought resistant trees.	*Consistent*. This measure has been included as a mitigation measure.
3. Pave and maintain the roads and parking areas.	*Consistent*. This measure has been included in the project design.
4. Plant drought tolerant, native shade trees along southern exposures of buildings to reduce energy used to cool buildings in summer.	*Consistent*. This measure has been included as a mitigation measure.
5. Incorporate outdoor electrical outlets to encourage the use of electric appliances and tools.	*Consistent*. This measure has been included as a mitigation measure.
6. Install high-efficiency heating and cooling systems.	*Consistent*. This measure has been included as a mitigation measure.
7. Utilize high-efficiency gas or solar water heaters.	*Consistent*. This measure has been included as a mitigation measure.
8. Utilize built-in energy efficient appliances (i.e., Energy Star rated).	*Consistent*. This measure has been included as a mitigation measure.
9. Utilize double-paned windows.	*Consistent*. This measure has been included as a mitigation measure. This measure has been revised to state: "Utilize double- or triple-paned windows."
10. Utilize low energy street lights (i.e., sodium, light-emitting diode [LED]).	*Consistent*. This measure has been included as a mitigation measure. This measure has been revised to include light-emitting diode (LED) as an example.
11. Utilize energy-efficient interior lighting.	*Consistent*. This measure has been included as a mitigation measure.
12. Install door sweeps and weather stripping (if more efficient doors and windows are not available).	*Consistent*. This measure has been included as a mitigation measure.
13. Install energy-reducing programmable thermostats.	*Consistent*. This measure has been included as a mitigation measure.
14. Eliminate high water consumption landscape (e.g., plants and lawns) in residential design. Use native plants that do not require watering and are low ROG emitting.	*Consistent*. This measure has been included as a mitigation measure. This measure has been reworded to be consistent with GHG-reduction measures as follows: "Install low water consumption landscape. Use native plants that do not require watering after they are well established or minimal watering during the summer months and are low ROG emitting."
15. Develop recreational facility (e.g., parks, gym, pool, etc.) within one-quarter of a mile from site.	*Consistent*. Although the project does not include development of recreational facilities, the project site is located within ¼ mile of Ravine Water Park.
16. Provide a designated parking space for alternatively fueled vehicles.	*Consistent*. This measure has been included as a mitigation measure.
17. Provide vanpool, shuttle, mini bus service (alternative fueled preferred).	*Consistent*. This measure has been revised to be consistent with recommended GHG-reduction measures, as follows: "Provide a shuttle service for guests to local destinations, including Paso Robles Transit/Amtrak Station."
18. Provide a pedestrian-friendly and interconnected streetscape to make walking more convenient, comfortable and safe (including appropriate signalization and signage).	*Consistent*. This measure has been revised to be consistent with recommended GHG-reduction measures, as follows: "Provide a pedestrian access network that internally links all uses and connects all existing or planned external streets and pedestrian facilities contiguous with the project site."
19. Provide secure on-site bicycle indoor storage, lockers, or Racks.	*Consistent*. This measure has been revised to be consistent with recommended GHG-reduction measures, as follows: "Provide on-site bicycle parking beyond those required by California Green Building Standards Code and related facilities to support long-term use (lockers, or a locked room with standard racks and access limited to bicyclists only)."

Consistency with SLOAPCD-Recommended Standard Mitigation Measures for Operational Air Quality Impacts

SLOAPCD Standard Mitigation Measure	Proposed Mitigation Measure
20. Provide easements or land dedications and construct bikeways and pedestrian walkways.	*Consistent*. This measure has been included as a mitigation measure.
21. Driveway design standards (e.g., speed bumps, curved driveway) for self-enforcing of reduced speed limits for unpaved driveways; and Implement on-site circulation design elements in parking lots to reduce vehicle queuing and improve the pedestrian environment.	*Consistent*. This measure has been revised to be consistent with recommended GHG-mitigation measures, as follows: "Implement traffic calming improvements as appropriate (e.g., marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, median islands, mini-circles, tight corner radii, etc.)"
The following additional mitigation measures have also been included:	
22. Install energy-saving systems in guest rooms that reduce energy usage when rooms are not occupied.	
23. Provide native and drought tolerant trees beyond those required as mitigation for tree removal.	
The proposed mitigation measures identified in this table have been reviewed and approved by SLOAPCD.	

Summary of Proposed Mitigation Measures

Short-Term Construction
Mitigation Measures: **AQ-1:** The following measures shall be implemented to minimize construction-generated emissions. These measures shall be shown on grading and building plans: a. Reduce the amount of the disturbed area where possible. b. Use of water trucks or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the site. Increased watering frequency would be required whenever wind speeds exceed 15 mph. Reclaimed (non-potable) water should be used whenever possible. c. All dirt stock pile areas should be sprayed daily as needed. d. Permanent dust control measures identified in the approved project revegetation and landscape plans should be implemented as soon as possible following completion of any soil disturbing activities; e. Exposed ground areas that are planned to be reworked at dates greater than one month after initial grading should be sown with a fast germinating, non-invasive grass seed and watered until vegetation is established. f. All disturbed soil areas not subject to revegetation should be stabilized using approved chemical soil binders, jute netting, or other methods approved in advance by the SLOAPCD. g. All roadways, driveways, sidewalks, etc. to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used. h. Vehicle speed for all construction vehicles shall not exceed 15 mph on any unpaved surface at the construction site. i. All trucks hauling dirt, sand, soil, or other loose materials are to be covered or should maintain at least two feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with CVC Section 23114. j. Install wheel washers at the construction site entrance, wash off the tires or tracks of all trucks and equipment leaving the site, or implement other SLOAPCD-approved methods sufficient to minimize the track-out of soil onto paved roadways. k. Sweep streets at the end of each day if visible soil material is carried onto adjacent paved roads. Water sweepers with reclaimed water should be used where feasible. l. The burning of vegetative material shall be prohibited. m. The contractor or builder shall designate a person or persons to monitor the fugitive dust emissions and enhance the implementation of the measures as necessary to minimize dust complaints, reduce visible emissions below 20% opacity, and to prevent transport of dust offsite. Their duties shall include holidays and weekend periods when work may not be in progress. The name and telephone number of such persons shall be provided to the SLOAPCD Compliance Division prior to the start of any grading, earthwork or demolition. n. Construction of the proposed project shall use low-VOC content paints not exceeding 50 grams per liter.
AQ-3: The following measures shall be implemented to reduce expose of sensitive receptors to substantial pollutant concentrations. These measures shall be shown on grading and building plans: a. Implement Mitigation Measure AQ-1, as identified in “Impact AQ-C”, above. b. Demolition of onsite structures shall comply with the National Emission Standards for Hazardous Air Emissions (NESHAP) requirements (NESHAP, 40 CFR, Part 61, Subpart M) for the demolition of existing structures. The SLOAPCD is delegated authority by the Environmental Protection Agency (EPA) to implement the Federal Asbestos NESHAP. Prior to demolition of onsite structures, the SLOAPCD shall be notified, per NESHAP requirements. SLOAPCD notification form and reporting requirements are included in Appendix A. Additional information may be obtained at website url: http://slocleanair.org/business/asbestos.php. c. If during demolition of existing structures, paint is separated from the construction materials (e.g. chemically or

physically), the paint waste will be evaluated independently from the building material by a qualified hazardous materials inspector to determine its proper management. All hazardous materials shall be handled and disposed in accordance with local, state and federal regulations. According to the Department of Toxic Substances Control (DTSC), if paint is not removed from the building material during demolition (and is not chipping or peeling), the material can be disposed of as construction debris (a non-hazardous waste). The landfill operator will be contacted prior to disposal of building material debris to determine any specific requirements the landfill may have regarding the disposal of lead-based paint materials. The disposal of demolition debris shall comply with any such requirements. Contact the SLOAPCD Enforcement Division at (805) 781-5912 for more information. Approval of a lead work plan and permit may be required. Lead work plans, if required, will need to be submitted to SLOAPCD ten days prior to the start of demolition

d. On-road diesel vehicles shall comply with Section 2485 of Title 13 of the California Code of Regulations. This regulation limits idling from diesel-fueled commercial motor vehicles with gross vehicular weight ratings of more than 10,000 pounds and licensed for operation on highways. It applies to California and non-California based vehicles. In general, the regulation specifies that drivers of said vehicles:
    1) Shall not idle the vehicle's primary diesel engine for greater than 5 minutes at any location, except as noted in Subsection (d) of the regulation; and,
    2) Shall not operate a diesel-fueled auxiliary power system to power a heater, air conditioner, or any ancillary equipment on that vehicle during sleeping or resting in a sleeper berth for greater than 5.0 minutes at any location when within 1,000 feet of a restricted area, except as noted in Subsection (d) of the regulation.

e. Maintain all construction equipment in proper tune according to manufacturer's specifications;

f. Fuel all off-road and portable diesel powered equipment with ARB certified motor vehicle diesel fuel (non-taxed version suitable for use off-road);

g. Use diesel construction equipment meeting ARB's Tier 2 certified engines or cleaner off-road heavy-duty diesel engines, and comply with the State off-Road Regulation;

h. Idling of all on and off-road diesel-fueled vehicles shall not be permitted when not in use. Signs shall be posted in the designated queuing areas and or job site to remind drivers and operators of the no idling limitation.

i. Electrify equipment when possible;

j. Substitute gasoline-powered in place of diesel-powered equipment, when available; and,

k. Use alternatively fueled construction equipment on-site when available, such as compressed natural gas (CNG), liquefied natural gas (LNG), propane or biodiesel.

Long-Term Operation

AQ-2: To reduce operational emissions, the proposed project shall implement the following measures. The project proponent shall submit proof to the Paso Robles Community Development Department Staff that implementation of all measures have been met in accordance with a time schedule deemed appropriate by Community Development Department staff.

a. Utilize green building materials (materials which are resource efficient, recycled, and sustainable) available locally if possible.

b. Provide shade tree planting in parking lots to reduce evaporative emissions from parked vehicles. Design should provide 50% tree coverage within 10 years of construction using low ROG emitting, low maintenance native drought resistant trees.

c. Pave and maintain roads in parking areas.

d. Plant drought tolerant native shade trees along southern exposures of buildings to reduce energy used to cool buildings in summer.

e. Provide native and drought tolerant trees beyond those required as mitigation for tree removal.

f. Incorporate outdoor electrical outlets to encourage the use of electric appliances and tools.

Summary of Proposed Mitigation Measures

g. Install high-efficiency heating and cooling systems. h. Utilize high-efficiency gas or solar water heaters. i. Utilize built-in energy efficient appliances (i.e., Energy Star rated). j. Utilize double- or triple-paned windows. k. Utilize low energy street lights (i.e., sodium, light-emitting diode [LED]). l. Utilize energy-efficient interior lighting. m. Install door sweeps and weather stripping (if more efficient doors and windows are not available). n. Install energy-reducing programmable thermostats. o. Install low water consumption landscape. Use native plants that do not require watering after they are well established or minimal watering during the summer months and are low ROG emitting. p. Provide a designated parking space for alternatively fueled vehicles. q. Provide a shuttle service for guests to local destinations, including Paso Robles Transit/Amtrak Station r. Install energy-saving systems in guest rooms that reduce energy usage when rooms are not occupied. s. Provide a pedestrian access network that internally links all uses and connects all existing or planned external streets and pedestrian facilities contiguous with the project site t. Provide on-site bicycle parking beyond those required by California Green Building Standards Code and related facilities to support long-term use (lockers, or a locked room with standard racks and access limited to bicyclists only). u. Implement traffic calming improvements as appropriate (e.g., marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, median islands, mini-circles, tight corner radii, etc.)
GHG-1: The proposed project shall implement, at a minimum, the following GHG-reduction measures: a. Install high efficiency lights in parking lots, streets, and other public areas. b. Comply with mandatory California Green Building Standards Code bicycle parking standards. c. Install bicycle facilities and/or amenities beyond those required in building standards. d. Incorporate a pedestrian access network that internally links all uses and connects all existing or planned external streets and pedestrian facilities contiguous with the project site. e. The project site shall be designed to minimize barriers to pedestrian access and interconnectivity. f. Implement traffic calming improvements as appropriate (e.g., marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, median islands, mini-circles, tight corner radii, etc.). g. Comply with CALGreen Tier 1 or Tier 2 standards for water efficiency and conservation. h. Divert 65 percent of non-hazardous construction or demolition debris. i. Include the planting of native and drought tolerant trees beyond those required as mitigation for tree removal. j. Implement Mitigation Measure AQ-2. k. Implement Mitigation Measure AQ-3,e-k.

APPENDIX D

EMISSIONS MODELING

DAILY EMISSIONS SUMMARY: PHASE I - SUMMER

		UNMITIGATED DAILY EMISSIONS - SUMMER			
		ROG	NOX	ROG+NOX	EXH PM10
Demolition					
	On-Site	4.05	42.7	46.75	2.13
	Off-Site	0.09	0.48	0.57	0.006
	Total	4.14	43.18	47.32	2.136
Site Preparation					
	On-Site	4.84	51.75	56.59	2.75
	Off-Site	0.07	0.1	0.17	0.001
	Total	4.91	51.85	56.76	2.751
Grading/Excavation					
	On-Site	6.1	69.59	75.69	3.32
	Off-Site	0.08	0.11	0.19	0.001
	Total	6.18	69.7	75.88	3.321
Building Construction-Yr2017					
	On-Site	3.1	26.4	29.5	1.78
	Off-Site	1.08	4.6	5.68	0.06
	Total	4.18	31	35.18	1.84
Building Construction-Yr2018					
	On-Site	2.67	23.26	25.93	1.49
	Off-Site	0.98	4.18	5.16	0.06
	Total	3.65	27.44	31.09	1.55
Paving					
	On-Site	2.03	17.16	19.19	0.94
	Off-Site	0.05	0.07	0.12	0.001
	Total	2.08	17.23	19.31	0.941
Architectural Coating					
	On-Site	319.37	2.01	321.38	0.15
	Off-Site	0.09	0.13	0.22	0.002
	Total	319.46	2.14	321.6	0.152
	MAX DAILY-YR 2017	4.91	51.85	56.76	2.751
	MAX DAILY- YR 2018	325.19	46.81	372	2.643
	THRESHOLD			137	7

**Assumes building construction, architectural coating, and paving could potentially occur simultaneously.*

Totals may not sum due to rounding.

		MITIGATED DAILY EMISSIONS - SUMMER			
		ROG	NOX	ROG+NOX	EXH PM10
Demolition					
	On-Site	4.05	42.7	46.75	2.13
	Off-Site	0.09	0.48	0.57	0.006
	Total	4.14	43.18	47.32	2.136
Site Preparation					
	On-Site	4.84	51.75	56.59	2.75
	Off-Site	0.07	0.1	0.17	0.001
	Total	4.91	51.85	56.76	2.751
Grading/Excavation					
	On-Site	6.1	69.59	75.69	3.32
	Off-Site	0.08	0.11	0.19	0.001
	Total	6.18	69.7	75.88	3.321
Building Construction-Yr2017					
	On-Site	3.1	26.4	29.5	1.78
	Off-Site	1.08	4.6	5.68	0.06
	Total	4.18	31	35.18	1.84
Building Construction-Yr2018					
	On-Site	2.67	23.26	25.93	1.49
	Off-Site	0.98	4.18	5.16	0.06
	Total	3.65	27.44	31.09	1.55
Paving					
	On-Site	2.03	17.16	19.19	0.94
	Off-Site	0.05	0.07	0.12	0.001
	Total	2.08	17.23	19.31	0.941
Architectural Coating					
	On-Site	64.1	2.01	66.11	0.15
	Off-Site	0.09	0.13	0.22	0.002
	Total	64.19	2.14	66.33	0.152
	MAX DAILY-YR 2017	4.91	51.85	56.76	2.751
	MAX DAILY- YR 2018	69.92	46.81	116.73	2.643
	THRESHOLD			137	7

**Assumes building construction, architectural coating, and paving could potentially occur simultaneously.*

Mitigation includes use of low-VOC paint (maximum 50 g/L)

DAILY EMISSIONS SUMMARY: PHASE I - WINTER

		UNMITIGATED DAILY EMISSIONS - WINTER			
		ROG	NOX	ROG+NOX	EXH PM10
Demolition					
	On-Site	4.05	42.7	46.75	2.13
	Off-Site	0.1	0.5	0.6	0.006
	Total	4.15	43.2	47.35	2.136
Site Preparation					
	On-Site	4.84	51.75	56.59	2.75
	Off-Site	0.07	0.11	0.18	0.001
	Total	4.91	51.86	56.77	2.751
Grading/Excavation					
	On-Site	6.1	69.59	75.69	3.32
	Off-Site	0.08	0.13	0.21	0.001
	Total	6.18	69.72	75.9	3.321
Building Construction-Yr2017					
	On-Site	3.1	26.4	29.5	1.78
	Off-Site	1.25	4.76	6.01	0.06
	Total	4.35	31.16	35.51	1.84
Building Construction-Yr2018					
	On-Site	2.67	23.26	25.93	1.49
	Off-Site	1.13	4.33	5.46	0.06
	Total	3.8	27.59	31.39	1.55
Paving					
	On-Site	2.03	17.16	19.19	0.94
	Off-Site	0.05	0.08	0.13	0.001
	Total	2.08	17.24	19.32	0.941
Architectural Coating					
	On-Site	319.37	2.01	321.38	0.15
	Off-Site	0.09	0.15	0.24	0.002
	Total	319.46	2.16	321.62	0.152
	MAX DAILY-YR 2017	4.91	51.86	56.77	2.751
	MAX DAILY- YR 2018	325.34	46.99	372.33	2.643
	THRESHOLD			137	7

**Assumes building construction, architectural coating, and paving could potentially occur simultaneously.*

Totals may not sum due to rounding.

		MITIGATED DAILY EMISSIONS - WINTER			
		ROG	NOX	ROG+NOX	EXH PM10
Demolition					
	On-Site	4.05	42.7	46.75	2.13
	Off-Site	0.1	0.5	0.6	0.006
	Total	4.15	43.2	47.35	2.136
Site Preparation					
	On-Site	4.84	51.75	56.59	2.75
	Off-Site	0.07	0.11	0.18	0.001
	Total	4.91	51.86	56.77	2.751
Grading/Excavation					
	On-Site	6.1	69.59	75.69	3.32
	Off-Site	0.08	0.13	0.21	0.001
	Total	6.18	69.72	75.9	3.321
Building Construction-Yr2017					
	On-Site	3.1	26.4	29.5	1.78
	Off-Site	1.25	4.76	6.01	0.06
	Total	4.35	31.16	35.51	1.84
Building Construction-Yr2018					
	On-Site	2.67	23.26	25.93	1.49
	Off-Site	1.13	4.33	5.46	0.06
	Total	3.8	27.59	31.39	1.55
Paving					
	On-Site	2.03	17.16	19.19	0.94
	Off-Site	0.05	0.08	0.13	0.001
	Total	2.08	17.24	19.32	0.941
Architectural Coating					
	On-Site	64.1	2.01	66.11	0.15
	Off-Site	0.09	0.15	0.24	0.002
	Total	64.19	2.16	66.35	0.152
	MAX DAILY-YR 2017	4.91	51.86	56.77	2.751
	MAX DAILY- YR 2018	70.07	46.99	117.06	2.643
	THRESHOLD			137	7

**Assumes building construction, architectural coating, and paving could potentially occur simultaneously.*

Mitigation includes use of low-VOC paint (maximum 50 g/L)

DAILY EMISSIONS SUMMARY: PHASE II - SUMMER

		UNMITIGATED DAILY EMISSIONS - SUMMER			
		ROG	NOX	ROG+NOX	EXH PM10
Site Preparation					
	On-Site	3.73	38.86	42.59	1.93
	Off-Site	0.05	0.07	0.12	0.001
	Total	3.78	38.93	42.71	1.931
Grading/Excavation					
	On-Site	2.56	25.9	28.46	1.37
	Off-Site	0.04	0.06	0.1	0.001
	Total	2.6	25.96	28.56	1.371
Building Construction-Yr2020					
	On-Site	2.11	19.08	21.19	1.11
	Off-Site	0.77	3.03	3.8	0.04
	Total	2.88	22.11	24.99	1.15
Building Construction-Yr2021					
	On-Site	1.89	17.34	19.23	0.96
	Off-Site	0.73	2.49	3.22	0.04
	Total	2.62	19.83	22.45	1
Paving					
	On-Site	1.45	12.66	14.11	0.67
	Off-Site	0.04	0.06	0.1	0.001
	Total	1.49	12.72	14.21	0.671
Architectural Coating					
	On-Site	263.6	1.52	265.12	0.09
	Off-Site	0.06	0.09	0.15	0.002
	Total	263.66	1.61	265.27	0.092
	MAX DAILY-YR 2020	3.78	38.93	42.71	1.931
	MAX DAILY- YR 2021	267.77	34.16	**301.93**	1.763
	THRESHOLD			137	7

**Assumes building construction, architectural coating, and paving could potentially occur simultaneously.*
Totals may not sum due to rounding.

		MITIGATED DAILY EMISSIONS - SUMMER			
		ROG	NOX	ROG+NOX	EXH PM10
Site Preparation					
	On-Site	3.73	38.86	42.59	1.93
	Off-Site	0.05	0.07	0.12	0.001
	Total	3.78	38.93	42.71	1.931
Grading/Excavation					
	On-Site	2.56	25.9	28.46	1.37
	Off-Site	0.04	0.06	0.1	0.001
	Total	2.6	25.96	28.56	1.371
Building Construction-Yr2020					
	On-Site	2.11	19.08	21.19	1.11
	Off-Site	0.77	3.03	3.8	0.04
	Total	2.88	22.11	24.99	1.15
Building Construction-Yr2021					
	On-Site	1.89	17.34	19.23	0.96
	Off-Site	0.73	2.49	3.22	0.04
	Total	2.62	19.83	22.45	1
Paving					
	On-Site	1.45	12.66	14.11	0.67
	Off-Site	0.04	0.06	0.1	0.001
	Total	1.49	12.72	14.21	0.671
Architectural Coating					
	On-Site	52.89	1.52	54.41	0.09
	Off-Site	0.06	0.09	0.15	0.002
	Total	52.95	1.61	54.56	0.092
	MAX DAILY-YR 2020	3.78	38.93	42.71	1.931
	MAX DAILY- YR 2021	57.06	34.16	91.22	1.763
	THRESHOLD			137	7

**Assumes building construction, architectural coating, and paving could potentially occur simultaneously.*
Mitigation includes use of low-VOC paint (maximum 50 g/L)

DAILY EMISSIONS SUMMARY: PHASE II - WINTER

UNMITIGATED DAILY EMISSIONS - WINTER

		ROG	NOX	ROG+NOX	EXH PM10
Site Preparation					
	On-Site	3.73	38.86	42.59	1.93
	Off-Site	0.05	0.08	0.13	0.001
	Total	3.78	38.94	42.72	1.931
Grading/Excavation					
	On-Site	2.56	25.9	28.46	1.37
	Off-Site	0.04	0.07	0.11	0.001
	Total	2.6	25.97	28.57	1.371
Building Construction-Yr2020					
	On-Site	2.11	19.08	21.19	1.11
	Off-Site	0.89	3.13	4.02	0.04
	Total	3	22.21	25.21	1.15
Building Construction-Yr2021					
	On-Site	1.89	17.34	19.23	0.96
	Off-Site	0.84	2.59	3.43	0.04
	Total	2.73	19.93	22.66	1
Paving					
	On-Site	1.45	12.66	14.11	0.67
	Off-Site	0.04	0.06	0.1	0.001
	Total	1.49	12.72	14.21	0.671
Architectural Coating					
	On-Site	263.6	1.52	265.12	0.09
	Off-Site	0.06	0.1	0.16	0.002
	Total	263.66	1.62	265.28	0.092
	MAX DAILY-YR 2020	3.78	38.94	42.72	1.931
	MAX DAILY- YR 2021	267.88	34.27	**302.15**	1.763
	THRESHOLD			137	7

**Assumes building construction, architectural coating, and paving could potentially occur simultaneously.*

Totals may not sum due to rounding.

MITIGATED DAILY EMISSIONS - WINTER

		ROG	NOX	ROG+NOX	EXH PM10
Site Preparation					
	On-Site	3.73	38.86	42.59	1.93
	Off-Site	0.05	0.08	0.13	0.001
	Total	3.78	38.94	42.72	1.931
Grading/Excavation					
	On-Site	2.56	25.9	28.46	1.37
	Off-Site	0.04	0.07	0.11	0.001
	Total	2.6	25.97	28.57	1.371
Building Construction-Yr2020					
	On-Site	2.11	19.08	21.19	1.11
	Off-Site	0.89	3.13	4.02	0.04
	Total	3	22.21	25.21	1.15
Building Construction-Yr2021					
	On-Site	1.89	17.34	19.23	0.96
	Off-Site	0.84	2.59	3.43	0.04
	Total	2.73	19.93	22.66	1
Paving					
	On-Site	1.45	12.66	14.11	0.67
	Off-Site	0.04	0.06	0.1	0.001
	Total	1.49	12.72	14.21	0.671
Architectural Coating					
	On-Site	52.89	1.52	54.41	0.09
	Off-Site	0.06	0.1	0.16	0.002
	Total	52.95	1.62	54.57	0.092
	MAX DAILY-YR 2020	3.78	38.94	42.72	1.931
	MAX DAILY- YR 2021	57.17	34.27	91.44	1.763
	THRESHOLD			137	7

**Assumes building construction, architectural coating, and paving could potentially occur simultaneously.*

Mitigation includes use of low-VOC paint (maximum 50 g/L)

CONSTRUCTION SCHEDULE

CONSTRUCTION ACTIVITY	#DAYS	DAYS/QTR 2017 Q1	2017 Q2	2017 Q3	2017 Q4	2018 Q1
DEMOLITION	20	20				
SITE PREPARATION	5	5				
GRADING	20	8				
BUILDING CONST-2017	224	27	60	60	60	
BUILDING CONST-2018	31					31
PAVING	20					20
ARCHITECTURAL COATING	20					20

ANNUAL UNMITIGATED CONSTRUCTION-GENERATED EMISSIONS

	ROG	NOX	ROG+NOX	PM10 FUG	PM10 EXH	PM10 TOT
DEMOLITION	0.04	0.43	0.47	0.00	0.02	0.02
	0.00	0.01	0.01	0.00	0.00	0.00
	0.04	0.43	0.47	0.00	0.02	0.02
SITE PREPARATION	0.01	0.13	0.14	0.05	0.01	0.02
	0.00	0.00	0.00	0.00	0.00	0.00
	0.01	0.13	0.14	0.05	0.01	0.02
GRADING	0.06	0.70	0.76	0.12	0.01	0.02
	0.00	0.00	0.00	0.00	0.00	0.00
	0.06	0.70	0.76	0.12	0.01	0.02
BUILDING CONSTRUCTION-2017	0.33	2.84	3.17	0.00	0.19	0.19
	0.12	0.51	0.64	0.17	0.01	0.17
	0.46	3.35	3.81	0.17	0.20	0.36
TOTAL YR 2017:	0.57	4.61	5.18	0.35	0.24	0.43
BUILDING CONSTRUCTION-2018	0.03	0.27	0.30	0.00	0.02	0.02
	0.01	0.05	0.06	0.02	0.00	0.02
	0.04	0.32	0.36	0.02	0.02	0.04
PAVING-2018	0.02	0.17	0.19	0.00	0.01	0.02
	0.00	0.00	0.00	0.00	0.00	0.00
	0.02	0.17	0.19	0.00	0.01	0.02
ARCHITECTURAL COATING-2018	2.87	0.02	2.89	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	2.88	0.02	2.89	0.00	0.00	0.00
TOTAL YR 2018:	2.94	0.51	3.45	0.02	0.03	0.06

QUARTERLY UNMITIGATED CONSTRUCTION-GENERATED EMISSIONS

	ROG	NOX	ROG+NOX	PM10 FUG	PM10 EXH	PM10 TOT
EMISSIONS - 2017 Q1						
DEMOLITION	0.04	0.43	0.47	0.00	0.02	0.02
SITE PREPARATION	0.01	0.13	0.14	0.05	0.01	0.02
GRADING	0.06	0.70	0.76	0.12	0.01	0.02
BUILDING CONSTRUCTION	0.06	0.40	0.46	0.02	0.02	0.04
TOTAL	0.17	1.66	1.83	0.20	0.06	0.11
THRESHOLD			2.5	2.5	0.13	
EXCEEDS THRESHOLD?			NO	NO	NO	
EMISSIONS - 2017 Q2-Q4						
BUILDING CONSTRUCTION	0.12	0.90	1.02	0.04	0.05	0.10
TOTAL	0.12	0.90	1.02	0.04	0.05	0.10
THRESHOLD			2.5	2.5	0.13	
EXCEEDS THRESHOLD?			NO	NO	NO	
EMISSIONS - 2018 Q1						
BUILDING CONSTRUCTION	0.04	0.32	0.36	0.02	0.02	0.04
PAVING	0.02	0.17	0.19	0.00	0.01	0.02
ARCHITECTURAL COATING	2.88	0.02	2.89	0.00	0.00	0.00
TOTAL	2.94	0.51	**3.45**	0.02	0.03	0.06
THRESHOLD			2.5	2.5	0.13	
EXCEEDS THRESHOLD?			**YES**	NO	NO	

QUARTERLY MITIGATED CONSTRUCTION-GENERATED EMISSIONS

EMISSIONS - 2018 Q1	ROG	NOX	ROG+NOX	PM10 FUG	PM10 EXH	PM10 TOT
BUILDING CONSTRUCTION	0.04	0.32	0.36	0.02	0.02	0.04
PAVING	0.02	0.17	0.19	0.00	0.01	0.02
ARCHITECTURAL COATING	0.58	0.02	0.60	0.00	0.00	0.00
TOTAL	0.64	0.51	1.15	0.02	0.03	0.06
THRESHOLD			2.5	2.5	0.13	
EXCEEDS THRESHOLD?			NO	NO	NO	

**Mitigation includes use of low-VOC paint (max 50 g/L).*

CONSTRUCTION SCHEDULE

CONSTRUCTION ACTIVITY	#DAYS	DAYS/QTR 2020 Q1	2020 Q2	2020 Q3	2020 Q4	2021 Q1
SITE PREPARATION	10	10				
GRADING	20	8				
BUILDING CONST-2020	222	42	60	60	60	
BUILDING CONST-2021	8					8
PAVING	20					20
ARCHITECTURAL COATING	20					20

ANNUAL UNMITIGATED CONSTRUCTION-GENERATED EMISSIONS

	ROG	NOX	ROG+NOX	PM10 FUG	PM10 EXH	PM10 TOT
SITE PREPARATION	0.02	0.19	0.21	0.09	0.01	0.10
	0.00	0.00	0.00	0.00	0.00	0.00
	0.02	0.19	0.21	0.09	0.01	0.10
GRADING	0.26	0.26	0.52	0.07	0.01	0.08
	0.00	0.00	0.00	0.00	0.00	0.00
	0.26	0.26	0.52	0.07	0.01	0.08
BUILDING CONSTRUCTION-2020	0.22	2.02	2.25	0.00	0.12	0.12
	0.09	0.33	0.42	0.15	0.00	0.16
	0.31	2.36	2.67	0.15	0.12	0.27
TOTAL YR 2020:	0.59	2.81	3.40	0.31	0.15	0.46
BUILDING CONSTRUCTION-2021	0.02	0.16	0.17	0.00	0.01	0.01
	0.01	0.02	0.03	0.01	0.00	0.01
	0.02	0.18	0.20	0.01	0.01	0.02
PAVING-2021	0.01	0.13	0.14	0.00	0.01	0.01
	0.00	0.00	0.00	0.00	0.00	0.00
	0.01	0.13	0.14	0.00	0.01	0.01
ARCHITECTURAL COATING-2021	2.64	0.02	2.65	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	2.64	0.02	2.65	0.00	0.00	0.00
TOTAL YR 2021:	2.68	0.32	3.00	0.02	0.02	0.03

QUARTERLY UNMITIGATED CONSTRUCTION-GENERATED EMISSIONS

	ROG	NOX	ROG+NOX	PM10 FUG	PM10 EXH	PM10 TOT
EMISSIONS - 2020 Q1						
SITE PREPARATION	0.02	0.19	0.21	0.09	0.01	0.10
GRADING	0.26	0.26	0.52	0.07	0.01	0.08
BUILDING CONSTRUCTION	0.06	0.45	0.50	0.03	0.02	0.05
TOTAL	0.33	0.90	1.23	0.19	0.05	0.23
THRESHOLD			2.5	2.5	0.13	
EXCEEDS THRESHOLD?			NO	NO	NO	
EMISSIONS - 2020 Q2-Q4						
BUILDING CONSTRUCTION	0.08	0.64	0.72	0.04	0.03	0.07
TOTAL	0.08	0.64	0.72	0.04	0.03	0.07
THRESHOLD			2.5	2.5	0.13	
EXCEEDS THRESHOLD?			NO	NO	NO	
EMISSIONS - 2021 Q1						
BUILDING CONSTRUCTION	0.02	0.18	0.20	0.01	0.01	0.02
PAVING	0.01	0.13	0.14	0.00	0.01	0.01
ARCHITECTURAL COATING	2.64	0.02	2.65	0.00	0.00	0.00
TOTAL	2.68	0.32	**3.00**	0.02	0.02	0.03
THRESHOLD			2.5	2.5	0.13	
EXCEEDS THRESHOLD?			**YES**	NO	NO	

QUARTERLY MITIGATED CONSTRUCTION-GENERATED EMISSIONS

EMISSIONS - 2021 Q1	ROG	NOX	ROG+NOX	PM10 FUG	PM10 EXH	PM10 TOT
BUILDING CONSTRUCTION	0.02	0.18	0.20	0.01	0.01	0.02
PAVING	0.01	0.13	0.14	0.00	0.01	0.01
ARCHITECTURAL COATING	0.53	0.02	0.55	0.00	0.00	0.00
TOTAL	0.57	0.32	0.89	0.02	0.02	0.03
THRESHOLD			2.5	2.5	0.13	
EXCEEDS THRESHOLD?			NO	NO	NO	

**Mitigation includes use of low-VOC paint (max 50 g/L).*

EMISSIONS MODELING ASSUMPTIONS - AVERAGE VEHICLE TRIP LENGTH

TRIP-GENERATION RATE

TOTAL NUMBER OF ROOMS	291	
TRIP-GENERATION RATE	5.694	
TOTAL DAILY TRIPS-FULL BOOKING	1656.954	
INCOMING-DEPARTURE DAILY TRIPS (MAX 50% DEPARTURE, 50% ARRIVAL)	291	**17.6%**
IN-COUNTY DAILY GUEST TRIPS (TOTAL DAILY - INCOMING/DEPARTURE)	1365.954	**82.4%**

DIRECTIONAL DISTRIBUTION OF GUEST TRIPS & DISTANCES

INCOMING/DEPARTURE TRIPS - AVERAGE DISTANCE OF TRAVEL

IN/OUT BOUND DIRECTION	CITY/AREA	PERCENT OF TOTAL GUESTS	INCOMING HIGHWAY	PERCENT DISTRIBUTION BY INCOMING HWY	AVG. TRIP LENGTH (MILES)
EAST	FRESNO/NORTH CENTRAL VALLEY	24.15%	SR41/SR46	24.15%	33
EAST	BAKERSFIELD/SOUTH CENTRAL VALLEY	8.82%	SR46	31.50%	33
NORTH	MONTEREY/SF BAY AREA	12.67%	US101 N	12.67%	15
SOUTH	LOS ANGELES/SOCAL	45.36%	US101 S	22.68%	57.5
LOCAL	PASO ROBLES	9.00%	LOCAL	9.00%	13.5
				AVERAGE INCOMING/DEPARTURE TRIP LENGTH:	**30**
				AVERAGE DAILY INCOMING/DEPARTURE VMT (30 miles x 291 incoming/departure trips):	**8,846**

**Based on survey data obtained from the Pismo Beach Oxford Hotel (Jan-Dec, 2012). Local trips assumes a 13-mile trip length, based on the rural setting default obtained from CalEEMod. LA/SoCal trips were divided equally between South Central Valley and South County, assuming 50% traveling I-5, 50% traveling US101.*

IN-COUNTY TRIPS - AVERAGE DISTANCE OF TRAVEL

In-County trips lengths were quantified based on a sampling of trip lengths from the project site to local and regional destinations, per SLOAPCD recommendations. The weighted average trip length for hotel patrons includes in-coming and out-going vehicle trip lengths, as noted above.

LOCAL DESTINATIONS			DISTANCE (MILES)
1	PASO ROBLES	HWY46/24TH STREET (GAS/EATERIES)	3
2	PASO ROBLES	DOWNTOWN PASO ROBLES	4
3	PASO ROBLES	PASO ROBLES EVENT CENTER	3
4	PASO ROBLES	RIVER OAKS GOLF COURSE	3
5	PASO ROBLES	HUNTER RANCH GOLF COURSE	3
6	PASO ROBLES	THE LINKS GOLF COURSE	5
7	PASO ROBLES	RAVINE WATER PARK	0.5
8	PASO ROBLES	TARGET SHOPPING CENTER	7
9	PASO ROBLES	WALMART SHOPPING CENTER	4
10	PASO ROBLES	CUESTA COLLEGE NORTH COUNTY CAMPUS	3
11	PASO ROBLES	ESTRELLA WARBIRD MUSEUM	3
12	CENTRAL COAST	CAMBRIA	33
13	CENTRAL COAST	HEARST CASTLE	36
14	CENTRAL COAST	SAN SIMEON	37
15	CENTRAL COAST	HARMONY	30
16	CENTRAL COAST	CAYUCOS	28
17	CENTRAL COAST	MORRO BAY	32
18	WINERIES-46 EAST	UNION ROAD TASTING ROOMS	1
21	WINERIES-46 EAST	TREANA WINERY	2
22	WINERIES-46 EAST	PARRISH FAMILY VINEYARDS	3
23	WINERIES-46 EAST	PASO ROBLES WINERIES	2.5
24	WINERIES-46 EAST	D ANDINO VINEYARDS	2.5
25	WINERIES-46 EAST	DERVY WINES	2.5
26	WINERIES-46 EAST	J LOHR VINEYARDS	3.5
27	WINERIES-46 EAST	UNCORKED TOURS	4
28	WINERIES-46 EAST	GRIZLEY REPUBLIC	3.5
29	WINERIES-46 EAST	BREAKAWAY TOURS	4
30	WINERIES-46 EAST	WINE LINE TOURS	4.5
31	WINERIES-46 EAST	PIANETTA	3.5
32	WINERIES-46 EAST	EBERLY WINERY	1.5
33	WINERIES-46 EAST	VINA ROBLES	1.5
34	WINERIES-46 EAST	ROBERT HALL	1.5
35	WINERIES-46 EAST	TOBIN JAMES	6.5
36	WINERIES-46 EAST	CHUMEIA	6.5
37	WINERIES-46 EAST	GREY WOLF	8.5
38	WINERIES-46 EAST	FIVE RIVERS	8
39	WINERIES-46 EAST	EOS	0.5
40	WINERIES-46 EAST	BIANCHI	5
41	WINERIES-46 EAST	ARCIERO	3
42	WINERIES-46 EAST	PAUL J ROSILEZ	3.5
43	WINERIES-46 EAST	MALOY O'NEIL	4
44	WINERIES-46 EAST	FALCON NEST	3.5
45	WINERIES-46 EAST	SAN ANTONIO	1.5
46	WINERIES-46 EAST	SEXTANT	2.5
47	WINERIES-46 EAST	STEINBECK	3.5
48	WINERIES-46 EAST	PEAR VALLEY	3
49	WINERIES-46 EAST	RIO SECO	2.5
50	WINERIES-46 EAST	PENMAN SPRINGS	3
51	WINERIES-46 EAST	CLAUTIERE	3.5

52	WINERIES-46 EAST	DERBY	3
53	WINERIES-46 EAST	NORMAN	2.5
54	WINERIES-46 EAST	GRAVEYARD	8.5
55	WINERIES-46 EAST	J&J	9
56	WINERIES-WEST/NORTH	TREANA	8.5
57	WINERIES-WEST/NORTH	STACKED STONE	6.5
58	WINERIES-WEST/NORTH	ECLUSE	8
59	WINERIES-WEST/NORTH	TERRY HOAGE	7
60	WINERIES-WEST/NORTH	LE CUVIER	6.5
61	WINERIES-WEST/NORTH	VILLICANA	6.5
62	WINERIES-WEST/NORTH	CARINA	8
63	WINERIES-WEST/NORTH	ADELAIDA	10.5
64	WINERIES-WEST/NORTH	VILLA CREEK	3
65	WINERIES-WEST/NORTH	RABBIT RIDGE	10.5
66	WINERIES-WEST/NORTH	TABLAS	14.5
67	WINERIES-WEST/NORTH	OPOLO	15.5
68	WINERIES-WEST/NORTH	CALCAREOUS	8.5
69	WINERIES-WEST/NORTH	ALMOND HILL	7
70	WINERIES-WEST/NORTH	DENNER	13.5
71	WINERIES-WEST/NORTH	CHRONIC	7
72	WINERIES-WEST/NORTH	CAPARONE	12
73	WINERIES-WEST/NORTH	FOUR VINES	8
74	WINERIES-WEST/NORTH	LAWRENCE ANDREW	4.5
75	WINERIES-WEST/NORTH	PRWS	3.5
76	WINERIES-WEST/NORTH	LE VIGNE	4
77	WINERIES-WEST/NORTH	CASTORO CELLARS	9
78	WINERIES-WEST/NORTH	SILVER HORSE	8
79	WINERIES-WEST/NORTH	FIRST CRUSH WINES	8
80	WINERIES-WEST/NORTH	FIRESTONE WALKER BREWERY	8
81	WINERIES-WEST/NORTH	DUSI WINES	9
82	WINERIES-46 WEST	PEACHY CANYON	9
83	WINERIES-46 WEST	SUMMERWOOD	8
84	WINERIES-46 WEST	EAGLE CASTLE	9
85	WINERIES-46 WEST	AUSTIN HOPE	9
86	WINERIES-46 WEST	QUAIL CREEK	8
87	WINERIES-46 WEST	DOCE ROBLES	7.5
88	WINERIES-46 WEST	ZENAIDA	8
89	WINERIES-46 WEST	CASTORO CELLARS	8.5
90	WINERIES-46 WEST	BOOKER	9.5
91	WINERIES-46 WEST	GREY WOLF	9
92	WINERIES-46 WEST	CALIZA	9.5
93	WINERIES-46 WEST	LONE MADRONE	10
94	WINERIES-46 WEST	HUNT CELLARS	10
95	WINERIES-46 WEST	ROTTA	11
96	WINERIES-46 WEST	TURLEY	12
97	WINERIES-46 WEST	DOVER CANYON	13
98	WINERIES-46 WEST	HEARTHSTONE	12.5
99	WINERIES-46 WEST	LINNE	10
100	WINERIES-46 WEST	CYPHER	11
101	WINERIES-46 WEST	DONATI	11
102	WINERIES-46 WEST	NINER	9.5
103	WINERIES-46 WEST	MIDNIGHT CELLARS	9.5
104	WINERIES-46 WEST	DARK STAR	9
105	WINERIES-46 WEST	FRATELLI PERATA	8.5
106	WINERIES-46 WEST	KENETH VOLK	9.5
107	WINERIES-46 WEST	WINDWARD	8
108	WINERIES-46 WEST	SHALE OAK	10.5
109	WINERIES-46 WEST	CROAD	11.5
110	WINERIES-46 WEST	ZINALLEY	11
111	WINERIES-46 WEST	LINNE COLADO	11.5
112	WINERIES-46 WEST	JACK CREEK	13.5
113	WINERIES-46 WEST	STEPHENS CELLAR	15
114	WINERIES-46 WEST	EPOCH ESTATE	16
115	WINERIES-46 WEST	LAGO GUISEPPE CELLARS	16
116	WINERIES-46 WEST	ROCKY CREEK	11
117	WINERIES-46 WEST	KALEIDOS	12.5
118	WINERIES-46 WEST	ORCHID HILL	12
		AVERAGE IN-COUNTY TRIP LENGTH:	**8.2**
		AVERAGE DAILY IN-COUNTY VMT:	**11,252**

CALCULATED WEIGHTED AVERAGE TRIP DISTANCE

TOTAL VMT (INCOMING, DEPARTURE & IN-COUNTY):	**20,098**
TOTAL TRIPS (INCOMING, DEPARTURE, IN-COUNTY):	**1,657**
AVERAGE TRIP DISTANCE (WEIGHTED ALL TRIPS):	**12.1**
MODELED TRIP DISTANCE (WEIGHTED ALL TRIPS):	**12.5**

All trip distances rounded up to the nearest 0.5 mile.

Paso Robles Resort Hotel - Phase I (Main Hotel)

San Luis Obispo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	48.00	1000sqft	1.10	48,000.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Hotel	136.00	Room	36.33	197,472.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	546.6	**CH4 Intensity (lb/MWhr)**	0.025	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2017 Construction start year. Includes RPS adjustment.

Land Use - Main Hotel=136 rooms. Total site acreage=~39AC. 196 space parking lot. 48,000 sf other asphalt surfaces.

Construction Phase - 15-month overall construction period based on project-specific data. Construction activity durations based on model defaults.

Off-road Equipment - Construction equipment based on model defaults.

Trips and VMT - Construction vehicle trips based on model defaults.

Demolition - Includes demolition of residence (1195sf). Shop (5000sf) to be removed/repurposed by third party included for quantification of haul truck trips.

Grading - Material balanced onsite. Conservatively assumes entire site rough graded during Phase I.

Vehicle Trips - Based on trip-gen rate derived from the traffic analysis, 5.694 trips/room, includes trips for onsite amenities (e.g., restaurant, meeting rooms, etc.). 12.5m/C-C & 13m/C-W&C-NW trips.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - Assumes 280 mixed hardwood.

Construction Off-road Equipment Mitigation - Includes watering, 15 mph speed limit, T3 equipment.

Area Mitigation - Assumes use of low VOC paint, maximum 50 g/L.

Energy Mitigation - Includes 30% increase in energy efficiency for non-commercial uses with compliance with current building standards, compared to previous standards (CEC 2015) and energy-efficient appliances.

Water Mitigation - Includes installation of low-flow water fixtures and water-efficient irrigation systems.

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	740.00	238.00
tblConstructionPhase	NumDays	50.00	20.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	55.00	20.00

tblConstructionPhase	NumDays	30.00	5.00
tblGrading	AcresOfGrading	50.00	187.50
tblLandUse	LotAcreage	4.53	36.33
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.025
tblProjectCharacteristics	CO2IntensityFactor	641.35	546.6
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2019
tblSequestration	NumberOfNewTrees	0.00	280.00
tblVehicleTrips	CC_TL	5.00	12.50
tblVehicleTrips	CNW_TL	5.00	12.50
tblVehicleTrips	ST_TR	8.19	5.69
tblVehicleTrips	SU_TR	5.95	5.69
tblVehicleTrips	WD_TR	8.17	5.69

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.5728	4.6121	4.4573	6.6000e-003	0.3781	0.2594	0.6376	0.1149	0.2426	0.3575	0.0000	565.9302	565.9302	0.1010	0.0000	568.0519
2018	2.9386	0.5115	0.5395	8.8000e-004	0.0218	0.0288	0.0506	5.8500e-003	0.0269	0.0328	0.0000	74.2674	74.2674	0.0141	0.0000	74.5636
Total	**3.5115**	**5.1236**	**4.9968**	**7.4800e-003**	**0.4000**	**0.2882**	**0.6881**	**0.1207**	**0.2695**	**0.3903**	**0.0000**	**640.1976**	**640.1976**	**0.1151**	**0.0000**	**642.6155**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.2249	2.5790	4.2087	6.6000e-003	0.2513	0.1280	0.3793	0.0727	0.1275	0.2002	0.0000	565.9297	565.9297	0.1010	0.0000	568.0514
2018	2.9026	0.3395	0.5669	8.8000e-004	0.0218	0.0180	0.0398	5.8500e-003	0.0179	0.0238	0.0000	74.2674	74.2674	0.0141	0.0000	74.5636
Total	**3.1275**	**2.9185**	**4.7756**	**7.4800e-003**	**0.2731**	**0.1460**	**0.4191**	**0.0786**	**0.1454**	**0.2240**	**0.0000**	**640.1971**	**640.1971**	**0.1151**	**0.0000**	**642.6150**

	ROG	**NOx**	**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	**10.93**	**43.04**	**4.43**	**0.00**	**31.72**	**49.34**	**39.10**	**34.93**	**46.05**	**42.61**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5527	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0132
Energy	0.0494	0.4490	0.3771	2.6900e-003		0.0341	0.0341		0.0341	0.0341	0.0000	919.0732	919.0732	0.0291	0.0129	923.6812
Mobile	0.5281	1.5279	5.5710	0.0128	0.9020	0.0191	0.9211	0.2417	0.0176	0.2594	0.0000	936.9892	936.9892	0.0366	0.0000	937.7583
Waste						0.0000	0.0000		0.0000	0.0000	15.1147	0.0000	15.1147	0.8933	0.0000	33.8730
Water						0.0000	0.0000		0.0000	0.0000	1.0945	4.9609	6.0554	0.1126	2.7000e-003	9.2578
Total	**2.1302**	**1.9769**	**5.9546**	**0.0155**	**0.9020**	**0.0533**	**0.9553**	**0.2417**	**0.0518**	**0.2935**	**16.2092**	**1,861.0357**	**1,877.2449**	**1.0716**	**0.0156**	**1,904.5835**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3229	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0132
Energy	0.0361	0.3281	0.2756	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	742.9613	742.9613	0.0245	0.0101	746.5994
Mobile	0.5281	1.5279	5.5710	0.0128	0.9020	0.0191	0.9211	0.2417	0.0176	0.2594	0.0000	936.9892	936.9892	0.0366	0.0000	937.7583
Waste						0.0000	0.0000		0.0000	0.0000	11.3360	0.0000	11.3360	0.6699	0.0000	25.4048
Water						0.0000	0.0000		0.0000	0.0000	0.8756	4.0149	4.8905	0.0901	2.1600e-003	7.4514
Total	**1.8871**	**1.8560**	**5.8531**	**0.0148**	**0.9020**	**0.0441**	**0.9461**	**0.2417**	**0.0426**	**0.2843**	**12.2116**	**1,683.9779**	**1,696.1895**	**0.8212**	**0.0122**	**1,717.2272**

	ROG	NOx	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	**11.41**	**6.12**	**1.71**	**4.65**	**0.00**	**17.26**	**0.96**	**0.00**	**17.76**	**3.13**	**24.66**	**9.51**	**9.64**	**23.37**	**21.54**	**9.84**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	205.5200
Total	**205.5200**

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	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/3/2017	5	5	
3	Grading	Grading	2/4/2017	3/3/2017	5	20	
4	Building Construction	Building Construction	3/4/2017	1/31/2018	5	238	
5	Paving	Paving	2/1/2018	2/28/2018	5	20	
6	Architectural Coating	Architectural Coating	3/1/2018	3/28/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 371,736; Non-Residential Outdoor: 123,912 (Architectural Coating – sqft)

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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
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	6	15.00	0.00	28.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	136.00	53.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.1500e-003	0.0000	3.1500e-003	4.8000e-004	0.0000	4.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8292
Total	**0.0405**	**0.4270**	**0.3389**	**4.0000e-004**	**3.1500e-003**	**0.0213**	**0.0244**	**4.8000e-004**	**0.0198**	**0.0203**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8292**

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	4.0800e-003	3.4600e-003	1.0000e-005	2.4000e-004	5.0000e-005	2.9000e-004	7.0000e-005	5.0000e-005	1.1000e-004	0.0000	0.9480	0.9480	1.0000e-005	0.0000	0.9481
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	5.7000e-004	9.3000e-004	8.1700e-003	2.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1834	1.1834	7.0000e-005	0.0000	1.1848
Total	**9.0000e-004**	**5.0100e-003**	**0.0116**	**3.0000e-005**	**1.6800e-003**	**6.0000e-005**	**1.7400e-003**	**4.5000e-004**	**6.0000e-005**	**5.0000e-004**	**0.0000**	**2.1314**	**2.1314**	**8.0000e-005**	**0.0000**	**2.1329**

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					1.2300e-003	0.0000	1.2300e-003	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4800e-003	0.1876	0.2527	4.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291
Total	**9.4800e-003**	**0.1876**	**0.2527**	**4.0000e-004**	**1.2300e-003**	**8.8200e-003**	**0.0101**	**1.9000e-004**	**8.8200e-003**	**9.0100e-003**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8291**

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	4.0800e-003	3.4600e-003	1.0000e-005	2.4000e-004	5.0000e-005	2.9000e-004	7.0000e-005	5.0000e-005	1.1000e-004	0.0000	0.9480	0.9480	1.0000e-005	0.0000	0.9481
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	5.7000e-004	9.3000e-004	8.1700e-003	2.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1834	1.1834	7.0000e-005	0.0000	1.1848
Total	**9.0000e-004**	**5.0100e-003**	**0.0116**	**3.0000e-005**	**1.6800e-003**	**6.0000e-005**	**1.7400e-003**	**4.5000e-004**	**6.0000e-005**	**5.0000e-004**	**0.0000**	**2.1314**	**2.1314**	**8.0000e-005**	**0.0000**	**2.1329**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-004		6.8900e-003	6.8900e-003		6.3300e-003	6.3300e-003	0.0000	9.0789	9.0789	2.7800e-003	0.0000	9.1373
Total	**0.0121**	**0.1294**	**0.0985**	**1.0000e-004**	**0.0452**	**6.8900e-003**	**0.0521**	**0.0248**	**6.3300e-003**	**0.0312**	**0.0000**	**9.0789**	**9.0789**	**2.7800e-003**	**0.0000**	**9.1373**

3.3 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.7000e-004	2.8000e-004	2.4500e-003	0.0000	4.3000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3550	0.3550	2.0000e-005	0.0000	0.3554
Total	**1.7000e-004**	**2.8000e-004**	**2.4500e-003**	**0.0000**	**4.3000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3550**	**0.3550**	**2.0000e-005**	**0.0000**	**0.3554**

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					0.0176	0.0000	0.0176	9.6800e-003	0.0000	9.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3800e-003	0.0487	0.0585	1.0000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	9.0788	9.0788	2.7800e-003	0.0000	9.1373
Total	**2.3800e-003**	**0.0487**	**0.0585**	**1.0000e-004**	**0.0176**	**2.4000e-003**	**0.0200**	**9.6800e-003**	**2.4000e-003**	**0.0121**	**0.0000**	**9.0788**	**9.0788**	**2.7800e-003**	**0.0000**	**9.1373**

3.3 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.7000e-004	2.8000e-004	2.4500e-003	0.0000	4.3000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3550	0.3550	2.0000e-005	0.0000	0.3554
Total	**1.7000e-004**	**2.8000e-004**	**2.4500e-003**	**0.0000**	**4.3000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3550**	**0.3550**	**2.0000e-005**	**0.0000**	**0.3554**

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1596	0.0000	0.1596	0.0438	0.0000	0.0438	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0610	0.6959	0.4681	6.2000e-004		0.0332	0.0332		0.0305	0.0305	0.0000	57.2739	57.2739	0.0176	0.0000	57.6424
Total	**0.0610**	**0.6959**	**0.4681**	**6.2000e-004**	**0.1596**	**0.0332**	**0.1928**	**0.0438**	**0.0305**	**0.0744**	**0.0000**	**57.2739**	**57.2739**	**0.0176**	**0.0000**	**57.6424**

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	7.7000e-004	1.2500e-003	0.0109	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5779	1.5779	9.0000e-005	0.0000	1.5797
Total	**7.7000e-004**	**1.2500e-003**	**0.0109**	**2.0000e-005**	**1.9300e-003**	**1.0000e-005**	**1.9400e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.5779**	**1.5779**	**9.0000e-005**	**0.0000**	**1.5797**

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					0.0623	0.0000	0.0623	0.0171	0.0000	0.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.2978	0.3794	6.2000e-004		0.0132	0.0132		0.0132	0.0132	0.0000	57.2739	57.2739	0.0176	0.0000	57.6424
Total	**0.0151**	**0.2978**	**0.3794**	**6.2000e-004**	**0.0623**	**0.0132**	**0.0755**	**0.0171**	**0.0132**	**0.0303**	**0.0000**	**57.2739**	**57.2739**	**0.0176**	**0.0000**	**57.6424**

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	7.7000e-004	1.2500e-003	0.0109	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5779	1.5779	9.0000e-005	0.0000	1.5797
Total	**7.7000e-004**	**1.2500e-003**	**0.0109**	**2.0000e-005**	**1.9300e-003**	**1.0000e-005**	**1.9400e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.5779**	**1.5779**	**9.0000e-005**	**0.0000**	**1.5797**

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3335	2.8386	1.9489	2.8800e-003		0.1915	0.1915		0.1798	0.1798	0.0000	257.4400	257.4400	0.0634	0.0000	258.7706
Total	**0.3335**	**2.8386**	**1.9489**	**2.8800e-003**		**0.1915**	**0.1915**		**0.1798**	**0.1798**	**0.0000**	**257.4400**	**257.4400**	**0.0634**	**0.0000**	**258.7706**

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0680	0.4236	0.7821	9.7000e-004	0.0254	5.5200e-003	0.0309	7.2700e-003	5.0800e-003	0.0124	0.0000	86.1136	86.1136	7.0000e-004	0.0000	86.1283
Worker	0.0559	0.0911	0.7959	1.5800e-003	0.1408	1.0500e-003	0.1418	0.0374	9.6000e-004	0.0384	0.0000	115.3413	115.3413	6.4200e-003	0.0000	115.4760
Total	**0.1239**	**0.5147**	**1.5780**	**2.5500e-003**	**0.1661**	**6.5700e-003**	**0.1727**	**0.0447**	**6.0400e-003**	**0.0507**	**0.0000**	**201.4549**	**201.4549**	**7.1200e-003**	**0.0000**	**201.6043**

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	0.0722	1.5237	1.9152	2.8800e-003		0.0969	0.0969		0.0969	0.0969	0.0000	257.4397	257.4397	0.0634	0.0000	258.7703
Total	**0.0722**	**1.5237**	**1.9152**	**2.8800e-003**		**0.0969**	**0.0969**		**0.0969**	**0.0969**	**0.0000**	**257.4397**	**257.4397**	**0.0634**	**0.0000**	**258.7703**

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0680	0.4236	0.7821	9.7000e-004	0.0254	5.5200e-003	0.0309	7.2700e-003	5.0800e-003	0.0124	0.0000	86.1136	86.1136	7.0000e-004	0.0000	86.1283
Worker	0.0559	0.0911	0.7959	1.5800e-003	0.1408	1.0500e-003	0.1418	0.0374	9.6000e-004	0.0384	0.0000	115.3413	115.3413	6.4200e-003	0.0000	115.4760
Total	**0.1239**	**0.5147**	**1.5780**	**2.5500e-003**	**0.1661**	**6.5700e-003**	**0.1727**	**0.0447**	**6.0400e-003**	**0.0507**	**0.0000**	**201.4549**	**201.4549**	**7.1200e-003**	**0.0000**	**201.6043**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0307	0.2675	0.2016	3.1000e-004		0.0172	0.0172		0.0162	0.0162	0.0000	27.2285	27.2285	6.6600e-003	0.0000	27.3684
Total	**0.0307**	**0.2675**	**0.2016**	**3.1000e-004**		**0.0172**	**0.0172**		**0.0162**	**0.0162**	**0.0000**	**27.2285**	**27.2285**	**6.6600e-003**	**0.0000**	**27.3684**

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9900e-003	0.0414	0.0811	1.0000e-004	2.7200e-003	5.4000e-004	3.2600e-003	7.8000e-004	5.0000e-004	1.2800e-003	0.0000	9.0554	9.0554	7.0000e-005	0.0000	9.0570
Worker	5.0800e-003	8.5800e-003	0.0735	1.7000e-004	0.0151	1.1000e-004	0.0152	4.0000e-003	1.0000e-004	4.1000e-003	0.0000	11.8731	11.8731	6.2000e-004	0.0000	11.8861
Total	**0.0121**	**0.0500**	**0.1546**	**2.7000e-004**	**0.0178**	**6.5000e-004**	**0.0184**	**4.7800e-003**	**6.0000e-004**	**5.3800e-003**	**0.0000**	**20.9285**	**20.9285**	**6.9000e-004**	**0.0000**	**20.9430**

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	7.7200e-003	0.1630	0.2049	3.1000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	27.2285	27.2285	6.6600e-003	0.0000	27.3684
Total	**7.7200e-003**	**0.1630**	**0.2049**	**3.1000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**27.2285**	**27.2285**	**6.6600e-003**	**0.0000**	**27.3684**

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9900e-003	0.0414	0.0811	1.0000e-004	2.7200e-003	5.4000e-004	3.2600e-003	7.8000e-004	5.0000e-004	1.2800e-003	0.0000	9.0554	9.0554	7.0000e-005	0.0000	9.0570
Worker	5.0800e-003	8.5800e-003	0.0735	1.7000e-004	0.0151	1.1000e-004	0.0152	4.0000e-003	1.0000e-004	4.1000e-003	0.0000	11.8731	11.8731	6.2000e-004	0.0000	11.8861
Total	**0.0121**	**0.0500**	**0.1546**	**2.7000e-004**	**0.0178**	**6.5000e-004**	**0.0184**	**4.7800e-003**	**6.0000e-004**	**5.3800e-003**	**0.0000**	**20.9285**	**20.9285**	**6.9000e-004**	**0.0000**	**20.9430**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0161	0.1716	0.1449	2.2000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving	3.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0199**	**0.1716**	**0.1449**	**2.2000e-004**		**9.3900e-003**	**9.3900e-003**		**8.6400e-003**	**8.6400e-003**	**0.0000**	**20.3687**	**20.3687**	**6.3400e-003**	**0.0000**	**20.5019**

3.6 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	8.2000e-004	7.0500e-003	2.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1387	1.1387	6.0000e-005	0.0000	1.1400
Total	**4.9000e-004**	**8.2000e-004**	**7.0500e-003**	**2.0000e-005**	**1.4400e-003**	**1.0000e-005**	**1.4500e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.1387**	**1.1387**	**6.0000e-005**	**0.0000**	**1.1400**

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	5.4900e-003	0.1106	0.1693	2.2000e-004		5.9800e-003	5.9800e-003		5.9800e-003	5.9800e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving	3.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.2400e-003**	**0.1106**	**0.1693**	**2.2000e-004**		**5.9800e-003**	**5.9800e-003**		**5.9800e-003**	**5.9800e-003**	**0.0000**	**20.3687**	**20.3687**	**6.3400e-003**	**0.0000**	**20.5019**

3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	8.2000e-004	7.0500e-003	2.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1387	1.1387	6.0000e-005	0.0000	1.1400
Total	**4.9000e-004**	**8.2000e-004**	**7.0500e-003**	**2.0000e-005**	**1.4400e-003**	**1.0000e-005**	**1.4500e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.1387**	**1.1387**	**6.0000e-005**	**0.0000**	**1.1400**

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.8717					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
Total	**2.8747**	**0.0201**	**0.0185**	**3.0000e-005**		**1.5100e-003**	**1.5100e-003**		**1.5100e-003**	**1.5100e-003**	**0.0000**	**2.5533**	**2.5533**	**2.4000e-004**	**0.0000**	**2.5584**

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	1.4800e-003	0.0127	3.0000e-005	2.6000e-003	2.0000e-005	2.6200e-003	6.9000e-004	2.0000e-005	7.1000e-004	0.0000	2.0497	2.0497	1.1000e-004	0.0000	2.0519
Total	**8.8000e-004**	**1.4800e-003**	**0.0127**	**3.0000e-005**	**2.6000e-003**	**2.0000e-005**	**2.6200e-003**	**6.9000e-004**	**2.0000e-005**	**7.1000e-004**	**0.0000**	**2.0497**	**2.0497**	**1.1000e-004**	**0.0000**	**2.0519**

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	2.8717					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-004	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
Total	**2.8723**	**0.0136**	**0.0183**	**3.0000e-005**		**9.5000e-004**	**9.5000e-004**		**9.5000e-004**	**9.5000e-004**	**0.0000**	**2.5533**	**2.5533**	**2.4000e-004**	**0.0000**	**2.5584**

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	1.4800e-003	0.0127	3.0000e-005	2.6000e-003	2.0000e-005	2.6200e-003	6.9000e-004	2.0000e-005	7.1000e-004	0.0000	2.0497	2.0497	1.1000e-004	0.0000	2.0519
Total	**8.8000e-004**	**1.4800e-003**	**0.0127**	**3.0000e-005**	**2.6000e-003**	**2.0000e-005**	**2.6200e-003**	**6.9000e-004**	**2.0000e-005**	**7.1000e-004**	**0.0000**	**2.0497**	**2.0497**	**1.1000e-004**	**0.0000**	**2.0519**

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	0.5281	1.5279	5.5710	0.0128	0.9020	0.0191	0.9211	0.2417	0.0176	0.2594	0.0000	936.9892	936.9892	0.0366	0.0000	937.7583
Unmitigated	0.5281	1.5279	5.5710	0.0128	0.9020	0.0191	0.9211	0.2417	0.0176	0.2594	0.0000	936.9892	936.9892	0.0366	0.0000	937.7583

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	773.84	773.84	773.84	2,396,226	2,396,226
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	773.84	773.84	773.84	2,396,226	2,396,226

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	13.00	12.50	12.50	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455742	0.042240	0.214741	0.150125	0.067745	0.009842	0.017929	0.023584	0.002328	0.001395	0.008801	0.000839	0.004689

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	385.8228	385.8228	0.0177	3.5300e-003	387.2874
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	430.3273	430.3273	0.0197	3.9400e-003	431.9610
NaturalGas Mitigated	0.0361	0.3281	0.2756	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	357.1385	357.1385	6.8500e-003	6.5500e-003	359.3120
NaturalGas Unmitigated	0.0494	0.4490	0.3771	2.6900e-003		0.0341	0.0341		0.0341	0.0341	0.0000	488.7459	488.7459	9.3700e-003	8.9600e-003	491.7203

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Hotel	9.15875e+006	0.0494	0.4490	0.3771	2.6900e-003		0.0341	0.0341		0.0341	0.0341	0.0000	488.7459	488.7459	9.3700e-003	8.9600e-003	491.7203
Total		**0.0494**	**0.4490**	**0.3771**	**2.6900e-003**		**0.0341**	**0.0341**		**0.0341**	**0.0341**	**0.0000**	**488.7459**	**488.7459**	**9.3700e-003**	**8.9600e-003**	**491.7203**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Hotel	6.69252e+006	0.0361	0.3281	0.2756	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	357.1385	357.1385	6.8500e-003	6.5500e-003	359.3120
Total		**0.0361**	**0.3281**	**0.2756**	**1.9700e-003**		**0.0249**	**0.0249**		**0.0249**	**0.0249**	**0.0000**	**357.1385**	**357.1385**	**6.8500e-003**	**6.5500e-003**	**359.3120**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.66666e+006	413.2219	0.0189	3.7800e-003	414.7906
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	68992	17.1054	7.8000e-004	1.6000e-004	17.1704
Total		**430.3273**	**0.0197**	**3.9400e-003**	**431.9610**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.48716e+006	368.7173	0.0169	3.3700e-003	370.1170
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	68992	17.1054	7.8000e-004	1.6000e-004	17.1704
Total		**385.8228**	**0.0176**	**3.5300e-003**	**387.2874**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3229	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0132
Unmitigated	1.5527	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0132

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	0.2872					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2649					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.1000e-004	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0132
Total	**1.5527**	**6.0000e-005**	**6.4600e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0125**	**0.0125**	**3.0000e-005**	**0.0000**	**0.0132**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0574					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2649					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.1000e-004	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0132
Total	**1.3229**	**6.0000e-005**	**6.4600e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0125**	**0.0125**	**3.0000e-005**	**0.0000**	**0.0132**

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	4.8905	0.0901	2.1600e-003	7.4514
Unmitigated	6.0554	0.1126	2.7000e-003	9.2578

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.44988 / 0.38332	6.0554	0.1126	2.7000e-003	9.2578
Other 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		**6.0554**	**0.1126**	**2.7000e-003**	**9.2578**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	2.7599 / 0.359938	4.8905	0.0901	2.1600e-003	7.4514
Other 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		**4.8905**	**0.0901**	**2.1600e-003**	**7.4514**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.3360	0.6699	0.0000	25.4048
Unmitigated	15.1147	0.8933	0.0000	33.8730

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	74.46	15.1147	0.8933	0.0000	33.8730
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**15.1147**	**0.8933**	**0.0000**	**33.8730**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	55.845	11.3360	0.6699	0.0000	25.4048
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**11.3360**	**0.6699**	**0.0000**	**25.4048**

9.0 Operational Offroad

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

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	205.5200	0.0000	0.0000	205.5200

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Mixed Hardwood	280	205.5200	0.0000	0.0000	205.5200
Total		**205.5200**	**0.0000**	**0.0000**	**205.5200**

Paso Robles Resort Hotel - Phase I (Main Hotel)

San Luis Obispo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	48.00	1000sqft	1.10	48,000.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Hotel	136.00	Room	36.33	197,472.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	546.6	**CH4 Intensity (lb/MWhr)**	0.025	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2017 Construction start year. Includes RPS adjustment.

Land Use - Main Hotel=136 rooms. Total site acreage=~39AC. 196 space parking lot. 48,000 sf other asphalt surfaces.

Construction Phase - 15-month overall construction period based on project-specific data. Construction activity durations based on model defaults.

Off-road Equipment - Construction equipment based on model defaults.

Trips and VMT - Construction vehicle trips based on model defaults.

Demolition - Includes demolition of residence (1195sf). Shop (5000sf) to be removed/repurposed by third party included for quantification of haul truck trips.

Grading - Material balanced onsite. Conservatively assumes entire site rough graded during Phase I.

Vehicle Trips - Based on trip-gen rate derived from the traffic analysis, 5.694 trips/room, includes trips for onsite amenities (e.g., restaurant, meeting rooms, etc.). 12.5m/C-C & 13m/C-W&C-NW trips.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - Assumes 280 mixed hardwood.

Construction Off-road Equipment Mitigation - Includes watering, 15 mph speed limit, T3 equipment.

Area Mitigation - Assumes use of low VOC paint, maximum 50 g/L.

Energy Mitigation - Includes 30% increase in energy efficiency for non-commercial uses with compliance with current building standards, compared to previous standards (CEC 2015) and energy-efficient appliances.

Water Mitigation - Includes installation of low-flow water fixtures and water-efficient irrigation systems.

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	740.00	238.00
tblConstructionPhase	NumDays	50.00	20.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	55.00	20.00

tblConstructionPhase	NumDays	30.00	5.00
tblGrading	AcresOfGrading	50.00	187.50
tblLandUse	LotAcreage	4.53	36.33
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.025
tblProjectCharacteristics	CO2IntensityFactor	641.35	546.6
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2019
tblSequestration	NumberOfNewTrees	0.00	280.00
tblVehicleTrips	CC_TL	5.00	12.50
tblVehicleTrips	CNW_TL	5.00	12.50
tblVehicleTrips	ST_TR	8.19	5.69
tblVehicleTrips	SU_TR	5.95	5.69
tblVehicleTrips	WD_TR	8.17	5.69

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	6.1755	69.7038	47.9052	0.0640	18.2442	3.3186	20.9997	9.9779	3.0531	12.5129	0.0000	6,494.3118	6,494.3118	1.9441	0.0000	6,535.1375
2018	287.5527	27.4419	29.4622	0.0511	1.5859	1.5506	3.1365	0.4255	1.4565	1.8820	0.0000	4,665.9365	4,665.9365	0.7055	0.0000	4,680.7523
Total	**293.7282**	**97.1458**	**77.3674**	**0.1151**	**19.8301**	**4.8692**	**24.1362**	**10.4034**	**4.5097**	**14.3950**	**0.0000**	**11,160.2483**	**11,160.2483**	**2.6496**	**0.0000**	**11,215.8899**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	1.7506	29.8916	39.0434	0.0640	7.2238	1.3248	8.1862	3.9202	1.3247	4.8824	0.0000	6,494.3118	6,494.3118	1.9441	0.0000	6,535.1375
2018	287.3135	18.3552	29.7451	0.0511	1.5859	0.9579	2.5438	0.4255	0.9533	1.3788	0.0000	4,665.9365	4,665.9365	0.7055	0.0000	4,680.7523
Total	**289.0641**	**48.2468**	**68.7885**	**0.1151**	**8.8097**	**2.2827**	**10.7299**	**4.3457**	**2.2780**	**6.2613**	**0.0000**	**11,160.2483**	**11,160.2483**	**2.6496**	**0.0000**	**11,215.8899**

	ROG	**NOx**	**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	**1.59**	**50.34**	**11.09**	**0.00**	**55.57**	**53.12**	**55.54**	**58.23**	**49.49**	**56.50**	**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	8.5081	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Energy	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210
Mobile	2.8563	7.9476	29.2124	0.0724	5.0873	0.1050	5.1923	1.3604	0.0967	1.4572		5,840.7630	5,840.7630	0.2220		5,845.4252
Total	**11.6350**	**10.4080**	**31.3180**	**0.0872**	**5.0873**	**0.2921**	**5.3794**	**1.3604**	**0.2838**	**1.6443**		**8,792.9013**	**8,792.9013**	**0.2788**	**0.0541**	**8,815.5341**

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	7.2493	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Energy	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
Mobile	2.8563	7.9476	29.2124	0.0724	5.0873	0.1050	5.1923	1.3604	0.0967	1.4572		5,840.7630	5,840.7630	0.2220		5,845.4252
Total	**10.3033**	**9.7456**	**30.7616**	**0.0832**	**5.0873**	**0.2417**	**5.3290**	**1.3604**	**0.2335**	**1.5939**		**7,997.9851**	**7,997.9851**	**0.2636**	**0.0396**	**8,015.7801**

	ROG	NOx	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	**11.45**	**6.36**	**1.78**	**4.55**	**0.00**	**17.24**	**0.94**	**0.00**	**17.74**	**3.06**	**0.00**	**9.04**	**9.04**	**5.46**	**26.92**	**9.07**

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	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/3/2017	5	5	
3	Grading	Grading	2/4/2017	3/3/2017	5	20	
4	Building Construction	Building Construction	3/4/2017	1/31/2018	5	238	
5	Paving	Paving	2/1/2018	2/28/2018	5	20	
6	Architectural Coating	Architectural Coating	3/1/2018	3/28/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 371,736; Non-Residential Outdoor: 123,912 (Architectural Coating – sqft)

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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
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	6	15.00	0.00	28.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	136.00	53.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3147	0.0000	0.3147	0.0477	0.0000	0.0477			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**0.3147**	**2.1252**	**2.4399**	**0.0477**	**1.9797**	**2.0274**		**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0305	0.3953	0.2776	1.0500e-003	0.0244	4.9200e-003	0.0293	6.6600e-003	4.5200e-003	0.0112		104.6007	104.6007	7.0000e-004		104.6154
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	0.0573	0.0839	0.8251	1.6900e-003	0.1483	1.0800e-003	0.1494	0.0393	9.9000e-004	0.0403		135.7071	135.7071	7.2600e-003		135.8595
Total	**0.0878**	**0.4791**	**1.1027**	**2.7400e-003**	**0.1727**	**6.0000e-003**	**0.1786**	**0.0460**	**5.5100e-003**	**0.0515**		**240.3077**	**240.3077**	**7.9600e-003**		**240.4749**

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					0.1228	0.0000	0.1228	0.0186	0.0000	0.0186			0.0000			0.0000
Off-Road	0.9478	18.7614	25.2649	0.0399		0.8817	0.8817		0.8817	0.8817	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**0.9478**	**18.7614**	**25.2649**	**0.0399**	**0.1228**	**0.8817**	**1.0044**	**0.0186**	**0.8817**	**0.9003**	**0.0000**	**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0305	0.3953	0.2776	1.0500e-003	0.0244	4.9200e-003	0.0293	6.6600e-003	4.5200e-003	0.0112		104.6007	104.6007	7.0000e-004		104.6154
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	0.0573	0.0839	0.8251	1.6900e-003	0.1483	1.0800e-003	0.1494	0.0393	9.9000e-004	0.0403		135.7071	135.7071	7.2600e-003		135.8595
Total	**0.0878**	**0.4791**	**1.1027**	**2.7400e-003**	**0.1727**	**6.0000e-003**	**0.1786**	**0.0460**	**5.5100e-003**	**0.0515**		**240.3077**	**240.3077**	**7.9600e-003**		**240.4749**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**4.8382**	**51.7535**	**39.3970**	**0.0391**	**18.0663**	**2.7542**	**20.8205**	**9.9307**	**2.5339**	**12.4646**		**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

3.3 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0687	0.1007	0.9902	2.0300e-003	0.1780	1.3000e-003	0.1793	0.0472	1.1900e-003	0.0484		162.8485	162.8485	8.7100e-003		163.0314
Total	**0.0687**	**0.1007**	**0.9902**	**2.0300e-003**	**0.1780**	**1.3000e-003**	**0.1793**	**0.0472**	**1.1900e-003**	**0.0484**		**162.8485**	**162.8485**	**8.7100e-003**		**163.0314**

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.9611	0.9611		0.9611	0.9611	0.0000	4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**0.9515**	**19.4584**	**23.4003**	**0.0391**	**7.0458**	**0.9611**	**8.0069**	**3.8730**	**0.9611**	**4.8340**	**0.0000**	**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

3.3 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0687	0.1007	0.9902	2.0300e-003	0.1780	1.3000e-003	0.1793	0.0472	1.1900e-003	0.0484		162.8485	162.8485	8.7100e-003		163.0314
Total	**0.0687**	**0.1007**	**0.9902**	**2.0300e-003**	**0.1780**	**1.3000e-003**	**0.1793**	**0.0472**	**1.1900e-003**	**0.0484**		**162.8485**	**162.8485**	**8.7100e-003**		**163.0314**

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.9643	0.0000	15.9643	4.3838	0.0000	4.3838			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**6.0991**	**69.5920**	**46.8050**	**0.0617**	**15.9643**	**3.3172**	**19.2815**	**4.3838**	**3.0518**	**7.4356**		**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0764	0.1118	1.1002	2.2600e-003	0.1977	1.4400e-003	0.1992	0.0524	1.3200e-003	0.0538		180.9428	180.9428	9.6800e-003		181.1460
Total	**0.0764**	**0.1118**	**1.1002**	**2.2600e-003**	**0.1977**	**1.4400e-003**	**0.1992**	**0.0524**	**1.3200e-003**	**0.0538**		**180.9428**	**180.9428**	**9.6800e-003**		**181.1460**

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					6.2261	0.0000	6.2261	1.7097	0.0000	1.7097			0.0000			0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**1.5128**	**29.7798**	**37.9432**	**0.0617**	**6.2261**	**1.3234**	**7.5495**	**1.7097**	**1.3234**	**3.0330**	**0.0000**	**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0764	0.1118	1.1002	2.2600e-003	0.1977	1.4400e-003	0.1992	0.0524	1.3200e-003	0.0538		180.9428	180.9428	9.6800e-003		181.1460
Total	**0.0764**	**0.1118**	**1.1002**	**2.2600e-003**	**0.1977**	**1.4400e-003**	**0.1992**	**0.0524**	**1.3200e-003**	**0.0538**		**180.9428**	**180.9428**	**9.6800e-003**		**181.1460**

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**		**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.5601	3.8417	5.6129	9.0100e-003	0.2414	0.0510	0.2924	0.0689	0.0469	0.1158		887.0196	887.0196	7.0700e-003		887.1680
Worker	0.5193	0.7605	7.4813	0.0153	1.3445	9.8000e-003	1.3543	0.3566	8.9600e-003	0.3656		1,230.4109	1,230.4109	0.0658		1,231.7928
Total	**1.0794**	**4.6022**	**13.0942**	**0.0244**	**1.5859**	**0.0608**	**1.6467**	**0.4255**	**0.0559**	**0.4814**		**2,117.4305**	**2,117.4305**	**0.0729**		**2,118.9608**

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	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**	**0.0000**	**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.5601	3.8417	5.6129	9.0100e-003	0.2414	0.0510	0.2924	0.0689	0.0469	0.1158		887.0196	887.0196	7.0700e-003		887.1680
Worker	0.5193	0.7605	7.4813	0.0153	1.3445	9.8000e-003	1.3543	0.3566	8.9600e-003	0.3656		1,230.4109	1,230.4109	0.0658		1,231.7928
Total	**1.0794**	**4.6022**	**13.0942**	**0.0244**	**1.5859**	**0.0608**	**1.6467**	**0.4255**	**0.0559**	**0.4814**		**2,117.4305**	**2,117.4305**	**0.0729**		**2,118.9608**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.5388	3.5121	5.4291	9.0000e-003	0.2414	0.0470	0.2884	0.0689	0.0432	0.1121		871.9385	871.9385	6.9200e-003		872.0839
Worker	0.4435	0.6690	6.5004	0.0153	1.3445	9.2700e-003	1.3538	0.3566	8.5400e-003	0.3651		1,184.0590	1,184.0590	0.0592		1,185.3028
Total	**0.9823**	**4.1811**	**11.9296**	**0.0243**	**1.5859**	**0.0563**	**1.6422**	**0.4255**	**0.0518**	**0.4773**		**2,055.9976**	**2,055.9976**	**0.0662**		**2,057.3867**

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	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.5388	3.5121	5.4291	9.0000e-003	0.2414	0.0470	0.2884	0.0689	0.0432	0.1121		871.9385	871.9385	6.9200e-003		872.0839
Worker	0.4435	0.6690	6.5004	0.0153	1.3445	9.2700e-003	1.3538	0.3566	8.5400e-003	0.3651		1,184.0590	1,184.0590	0.0592		1,185.3028
Total	**0.9823**	**4.1811**	**11.9296**	**0.0243**	**1.5859**	**0.0563**	**1.6422**	**0.4255**	**0.0518**	**0.4773**		**2,055.9976**	**2,055.9976**	**0.0662**		**2,057.3867**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.3747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9861**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**		**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

3.6 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0489	0.0738	0.7170	1.6900e-003	0.1483	1.0200e-003	0.1493	0.0393	9.4000e-004	0.0403		130.5948	130.5948	6.5300e-003		130.7319
Total	**0.0489**	**0.0738**	**0.7170**	**1.6900e-003**	**0.1483**	**1.0200e-003**	**0.1493**	**0.0393**	**9.4000e-004**	**0.0403**		**130.5948**	**130.5948**	**6.5300e-003**		**130.7319**

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	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.3747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9237**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0489	0.0738	0.7170	1.6900e-003	0.1483	1.0200e-003	0.1493	0.0393	9.4000e-004	0.0403		130.5948	130.5948	6.5300e-003		130.7319
Total	**0.0489**	**0.0738**	**0.7170**	**1.6900e-003**	**0.1483**	**1.0200e-003**	**0.1493**	**0.0393**	**9.4000e-004**	**0.0403**		**130.5948**	**130.5948**	**6.5300e-003**		**130.7319**

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	287.1661					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**287.4647**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0880	0.1328	1.2905	3.0400e-003	0.2669	1.8400e-003	0.2688	0.0708	1.7000e-003	0.0725		235.0705	235.0705	0.0118		235.3175
Total	**0.0880**	**0.1328**	**1.2905**	**3.0400e-003**	**0.2669**	**1.8400e-003**	**0.2688**	**0.0708**	**1.7000e-003**	**0.0725**		**235.0705**	**235.0705**	**0.0118**		**235.3175**

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	287.1661					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**287.2255**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0880	0.1328	1.2905	3.0400e-003	0.2669	1.8400e-003	0.2688	0.0708	1.7000e-003	0.0725		235.0705	235.0705	0.0118		235.3175
Total	**0.0880**	**0.1328**	**1.2905**	**3.0400e-003**	**0.2669**	**1.8400e-003**	**0.2688**	**0.0708**	**1.7000e-003**	**0.0725**		**235.0705**	**235.0705**	**0.0118**		**235.3175**

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	2.8563	7.9476	29.2124	0.0724	5.0873	0.1050	5.1923	1.3604	0.0967	1.4572		5,840.7630	5,840.7630	0.2220		5,845.4252
Unmitigated	2.8563	7.9476	29.2124	0.0724	5.0873	0.1050	5.1923	1.3604	0.0967	1.4572		5,840.7630	5,840.7630	0.2220		5,845.4252

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	773.84	773.84	773.84	2,396,226	2,396,226
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	773.84	773.84	773.84	2,396,226	2,396,226

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	13.00	12.50	12.50	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455742	0.042240	0.214741	0.150125	0.067745	0.009842	0.017929	0.023584	0.002328	0.001395	0.008801	0.000839	0.004689

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
NaturalGas Unmitigated	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	25092.5	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210
Total		**0.2706**	**2.4601**	**2.0664**	**0.0148**		**0.1870**	**0.1870**		**0.1870**	**0.1870**		**2,952.0552**	**2,952.0552**	**0.0566**	**0.0541**	**2,970.0210**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Hotel	18.3357	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1977**	**1.7976**	**1.5100**	**0.0108**		**0.1366**	**0.1366**		**0.1366**	**0.1366**		**2,157.1389**	**2,157.1389**	**0.0414**	**0.0396**	**2,170.2669**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.2493	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Unmitigated	8.5081	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5735					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7100e-003	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Total	**8.5081**	**3.6000e-004**	**0.0392**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0832**	**0.0832**	**2.3000e-004**		**0.0879**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7100e-003	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Total	**7.2493**	**3.6000e-004**	**0.0392**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0832**	**0.0832**	**2.3000e-004**		**0.0879**

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

10.0 Vegetation

Paso Robles Resort Hotel - Phase I (Main Hotel)

San Luis Obispo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	48.00	1000sqft	1.10	48,000.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Hotel	136.00	Room	36.33	197,472.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	546.6	**CH4 Intensity (lb/MWhr)**	0.025	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2017 Construction start year. Includes RPS adjustment.

Land Use - Main Hotel=136 rooms. Total site acreage=~39AC. 196 space parking lot. 48,000 sf other asphalt surfaces.

Construction Phase - 15-month overall construction period based on project-specific data. Construction activity durations based on model defaults.

Off-road Equipment - Construction equipment based on model defaults.

Trips and VMT - Construction vehicle trips based on model defaults.

Demolition - Includes demolition of residence (1195sf). Shop (5000sf) to be removed/repurposed by third party included for quantification of haul truck trips.

Grading - Material balanced onsite. Conservatively assumes entire site rough graded during Phase I.

Vehicle Trips - Based on trip-gen rate derived from the traffic analysis, 5.694 trips/room, includes trips for onsite amenities (e.g., restaurant, meeting rooms, etc.). 12.5m/C-C & 13m/C-W&C-NW trips.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - Assumes 280 mixed hardwood.

Construction Off-road Equipment Mitigation - Includes watering, 15 mph speed limit, T3 equipment.

Area Mitigation - Assumes use of low VOC paint, maximum 50 g/L.

Energy Mitigation - Includes 30% increase in energy efficiency for non-commercial uses with compliance with current building standards, compared to previous standards (CEC 2015) and energy-efficient appliances.

Water Mitigation - Includes installation of low-flow water fixtures and water-efficient irrigation systems.

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	740.00	238.00
tblConstructionPhase	NumDays	50.00	20.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	55.00	20.00

tblConstructionPhase	NumDays	30.00	5.00
tblGrading	AcresOfGrading	50.00	187.50
tblLandUse	LotAcreage	4.53	36.33
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.025
tblProjectCharacteristics	CO2IntensityFactor	641.35	546.6
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2019
tblSequestration	NumberOfNewTrees	0.00	280.00
tblVehicleTrips	CC_TL	5.00	12.50
tblVehicleTrips	CNW_TL	5.00	12.50
tblVehicleTrips	ST_TR	8.19	5.69
tblVehicleTrips	SU_TR	5.95	5.69
tblVehicleTrips	WD_TR	8.17	5.69

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	6.1808	69.7188	47.9103	0.0639	18.2442	3.3186	20.9997	9.9779	3.0531	12.5129	0.0000	6,485.9013	6,485.9013	1.9441	0.0000	6,526.7270
2018	287.5582	27.5854	32.0574	0.0504	1.5859	1.5514	3.1372	0.4255	1.4573	1.8828	0.0000	4,601.3942	4,601.3942	0.7055	0.0000	4,616.2100
Total	**293.7391**	**97.3041**	**79.9676**	**0.1142**	**19.8301**	**4.8700**	**24.1370**	**10.4034**	**4.5104**	**14.3957**	**0.0000**	**11,087.2955**	**11,087.2955**	**2.6496**	**0.0000**	**11,142.9370**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	1.9160	29.9065	39.0484	0.0639	7.2238	1.3248	8.1862	3.9202	1.3247	4.8824	0.0000	6,485.9013	6,485.9013	1.9441	0.0000	6,526.7270
2018	287.3190	18.4987	32.3403	0.0504	1.5859	0.9587	2.5445	0.4255	0.9541	1.3796	0.0000	4,601.3942	4,601.3942	0.7055	0.0000	4,616.2100
Total	**289.2350**	**48.4052**	**71.3887**	**0.1142**	**8.8097**	**2.2835**	**10.7307**	**4.3457**	**2.2788**	**6.2620**	**0.0000**	**11,087.2954**	**11,087.2954**	**2.6496**	**0.0000**	**11,142.9370**

	ROG	**NOx**	**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	**1.53**	**50.25**	**10.73**	**0.00**	**55.57**	**53.11**	**55.54**	**58.23**	**49.48**	**56.50**	**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	8.5081	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Energy	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210
Mobile	3.0793	8.4101	31.9112	0.0699	5.0873	0.1054	5.1927	1.3604	0.0971	1.4576		5,647.1445	5,647.1445	0.2222		5,651.8106
Total	**11.8580**	**10.8706**	**34.0168**	**0.0847**	**5.0873**	**0.2925**	**5.3798**	**1.3604**	**0.2842**	**1.6447**		**8,599.2829**	**8,599.2829**	**0.2790**	**0.0541**	**8,621.9194**

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	7.2493	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Energy	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
Mobile	3.0793	8.4101	31.9112	0.0699	5.0873	0.1054	5.1927	1.3604	0.0971	1.4576		5,647.1445	5,647.1445	0.2222		5,651.8106
Total	**10.5263**	**10.2081**	**33.4604**	**0.0807**	**5.0873**	**0.2422**	**5.3295**	**1.3604**	**0.2339**	**1.5943**		**7,804.3666**	**7,804.3666**	**0.2638**	**0.0396**	**7,822.1654**

	ROG	NOx	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	11.23	6.09	1.64	4.69	0.00	17.21	0.94	0.00	17.71	3.06	0.00	9.24	9.24	5.46	26.92	9.28

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	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/3/2017	5	5	
3	Grading	Grading	2/4/2017	3/3/2017	5	20	
4	Building Construction	Building Construction	3/4/2017	1/31/2018	5	238	
5	Paving	Paving	2/1/2018	2/28/2018	5	20	
6	Architectural Coating	Architectural Coating	3/1/2018	3/28/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 371,736; Non-Residential Outdoor: 123,912 (Architectural Coating – sqft)

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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
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	6	15.00	0.00	28.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	136.00	53.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3147	0.0000	0.3147	0.0477	0.0000	0.0477			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**0.3147**	**2.1252**	**2.4399**	**0.0477**	**1.9797**	**2.0274**		**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0355	0.4045	0.3878	1.0500e-003	0.0244	4.9300e-003	0.0293	6.6600e-003	4.5400e-003	0.0112		104.3573	104.3573	7.1000e-004		104.3723
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	0.0613	0.0951	0.8289	1.6100e-003	0.1483	1.0800e-003	0.1494	0.0393	9.9000e-004	0.0403		129.3992	129.3992	7.2600e-003		129.5516
Total	**0.0967**	**0.4996**	**1.2167**	**2.6600e-003**	**0.1727**	**6.0100e-003**	**0.1787**	**0.0460**	**5.5300e-003**	**0.0515**		**233.7565**	**233.7565**	**7.9700e-003**		**233.9239**

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					0.1228	0.0000	0.1228	0.0186	0.0000	0.0186			0.0000			0.0000
Off-Road	0.9478	18.7614	25.2649	0.0399		0.8817	0.8817		0.8817	0.8817	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**0.9478**	**18.7614**	**25.2649**	**0.0399**	**0.1228**	**0.8817**	**1.0044**	**0.0186**	**0.8817**	**0.9003**	**0.0000**	**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0355	0.4045	0.3878	1.0500e-003	0.0244	4.9300e-003	0.0293	6.6600e-003	4.5400e-003	0.0112		104.3573	104.3573	7.1000e-004		104.3723
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	0.0613	0.0951	0.8289	1.6100e-003	0.1483	1.0800e-003	0.1494	0.0393	9.9000e-004	0.0403		129.3992	129.3992	7.2600e-003		129.5516
Total	**0.0967**	**0.4996**	**1.2167**	**2.6600e-003**	**0.1727**	**6.0100e-003**	**0.1787**	**0.0460**	**5.5300e-003**	**0.0515**		**233.7565**	**233.7565**	**7.9700e-003**		**233.9239**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**4.8382**	**51.7535**	**39.3970**	**0.0391**	**18.0663**	**2.7542**	**20.8205**	**9.9307**	**2.5339**	**12.4646**		**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

3.3 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0735	0.1141	0.9947	1.9400e-003	0.1780	1.3000e-003	0.1793	0.0472	1.1900e-003	0.0484		155.2790	155.2790	8.7100e-003		155.4620
Total	**0.0735**	**0.1141**	**0.9947**	**1.9400e-003**	**0.1780**	**1.3000e-003**	**0.1793**	**0.0472**	**1.1900e-003**	**0.0484**		**155.2790**	**155.2790**	**8.7100e-003**		**155.4620**

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.9611	0.9611		0.9611	0.9611	0.0000	4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**0.9515**	**19.4584**	**23.4003**	**0.0391**	**7.0458**	**0.9611**	**8.0069**	**3.8730**	**0.9611**	**4.8340**	**0.0000**	**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

3.3 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0735	0.1141	0.9947	1.9400e-003	0.1780	1.3000e-003	0.1793	0.0472	1.1900e-003	0.0484		155.2790	155.2790	8.7100e-003		155.4620
Total	**0.0735**	**0.1141**	**0.9947**	**1.9400e-003**	**0.1780**	**1.3000e-003**	**0.1793**	**0.0472**	**1.1900e-003**	**0.0484**		**155.2790**	**155.2790**	**8.7100e-003**		**155.4620**

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.9643	0.0000	15.9643	4.3838	0.0000	4.3838			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**6.0991**	**69.5920**	**46.8050**	**0.0617**	**15.9643**	**3.3172**	**19.2815**	**4.3838**	**3.0518**	**7.4356**		**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0817	0.1268	1.1052	2.1500e-003	0.1977	1.4400e-003	0.1992	0.0524	1.3200e-003	0.0538		172.5323	172.5323	9.6800e-003		172.7355
Total	**0.0817**	**0.1268**	**1.1052**	**2.1500e-003**	**0.1977**	**1.4400e-003**	**0.1992**	**0.0524**	**1.3200e-003**	**0.0538**		**172.5323**	**172.5323**	**9.6800e-003**		**172.7355**

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					6.2261	0.0000	6.2261	1.7097	0.0000	1.7097			0.0000			0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**1.5128**	**29.7798**	**37.9432**	**0.0617**	**6.2261**	**1.3234**	**7.5495**	**1.7097**	**1.3234**	**3.0330**	**0.0000**	**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0817	0.1268	1.1052	2.1500e-003	0.1977	1.4400e-003	0.1992	0.0524	1.3200e-003	0.0538		172.5323	172.5323	9.6800e-003		172.7355
Total	**0.0817**	**0.1268**	**1.1052**	**2.1500e-003**	**0.1977**	**1.4400e-003**	**0.1992**	**0.0524**	**1.3200e-003**	**0.0538**		**172.5323**	**172.5323**	**9.6800e-003**		**172.7355**

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**		**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.6894	3.9010	8.2979	8.9600e-003	0.2414	0.0519	0.2933	0.0689	0.0477	0.1166		877.4830	877.4830	7.3200e-003		877.6366
Worker	0.5554	0.8620	7.5156	0.0146	1.3445	9.8000e-003	1.3543	0.3566	8.9600e-003	0.3656		1,173.2194	1,173.2194	0.0658		1,174.6014
Total	**1.2448**	**4.7631**	**15.8135**	**0.0236**	**1.5859**	**0.0617**	**1.6476**	**0.4255**	**0.0567**	**0.4822**		**2,050.7024**	**2,050.7024**	**0.0731**		**2,052.2380**

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	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**	**0.0000**	**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.6894	3.9010	8.2979	8.9600e-003	0.2414	0.0519	0.2933	0.0689	0.0477	0.1166		877.4830	877.4830	7.3200e-003		877.6366
Worker	0.5554	0.8620	7.5156	0.0146	1.3445	9.8000e-003	1.3543	0.3566	8.9600e-003	0.3656		1,173.2194	1,173.2194	0.0658		1,174.6014
Total	**1.2448**	**4.7631**	**15.8135**	**0.0236**	**1.5859**	**0.0617**	**1.6476**	**0.4255**	**0.0567**	**0.4822**		**2,050.7024**	**2,050.7024**	**0.0731**		**2,052.2380**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.6615	3.5657	8.0575	8.9400e-003	0.2414	0.0478	0.2892	0.0689	0.0439	0.1129		862.5402	862.5402	7.1800e-003		862.6909
Worker	0.4712	0.7588	6.4672	0.0146	1.3445	9.2700e-003	1.3538	0.3566	8.5400e-003	0.3651		1,128.9151	1,128.9151	0.0592		1,130.1588
Total	**1.1327**	**4.3245**	**14.5247**	**0.0235**	**1.5859**	**0.0571**	**1.6430**	**0.4255**	**0.0525**	**0.4780**		**1,991.4552**	**1,991.4552**	**0.0664**		**1,992.8497**

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	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.6615	3.5657	8.0575	8.9400e-003	0.2414	0.0478	0.2892	0.0689	0.0439	0.1129		862.5402	862.5402	7.1800e-003		862.6909
Worker	0.4712	0.7588	6.4672	0.0146	1.3445	9.2700e-003	1.3538	0.3566	8.5400e-003	0.3651		1,128.9151	1,128.9151	0.0592		1,130.1588
Total	**1.1327**	**4.3245**	**14.5247**	**0.0235**	**1.5859**	**0.0571**	**1.6430**	**0.4255**	**0.0525**	**0.4780**		**1,991.4552**	**1,991.4552**	**0.0664**		**1,992.8497**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.3747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9861**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**		**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

3.6 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0520	0.0837	0.7133	1.6100e-003	0.1483	1.0200e-003	0.1493	0.0393	9.4000e-004	0.0403		124.5127	124.5127	6.5300e-003		124.6499
Total	**0.0520**	**0.0837**	**0.7133**	**1.6100e-003**	**0.1483**	**1.0200e-003**	**0.1493**	**0.0393**	**9.4000e-004**	**0.0403**		**124.5127**	**124.5127**	**6.5300e-003**		**124.6499**

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	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.3747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9237**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0520	0.0837	0.7133	1.6100e-003	0.1483	1.0200e-003	0.1493	0.0393	9.4000e-004	0.0403		124.5127	124.5127	6.5300e-003		124.6499
Total	**0.0520**	**0.0837**	**0.7133**	**1.6100e-003**	**0.1483**	**1.0200e-003**	**0.1493**	**0.0393**	**9.4000e-004**	**0.0403**		**124.5127**	**124.5127**	**6.5300e-003**		**124.6499**

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	287.1661					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**287.4647**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0936	0.1507	1.2839	2.9000e-003	0.2669	1.8400e-003	0.2688	0.0708	1.7000e-003	0.0725		224.1228	224.1228	0.0118		224.3698
Total	**0.0936**	**0.1507**	**1.2839**	**2.9000e-003**	**0.2669**	**1.8400e-003**	**0.2688**	**0.0708**	**1.7000e-003**	**0.0725**		**224.1228**	**224.1228**	**0.0118**		**224.3698**

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	287.1661					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**287.2255**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0936	0.1507	1.2839	2.9000e-003	0.2669	1.8400e-003	0.2688	0.0708	1.7000e-003	0.0725		224.1228	224.1228	0.0118		224.3698
Total	**0.0936**	**0.1507**	**1.2839**	**2.9000e-003**	**0.2669**	**1.8400e-003**	**0.2688**	**0.0708**	**1.7000e-003**	**0.0725**		**224.1228**	**224.1228**	**0.0118**		**224.3698**

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	3.0793	8.4101	31.9112	0.0699	5.0873	0.1054	5.1927	1.3604	0.0971	1.4576		5,647.1445	5,647.1445	0.2222		5,651.8106
Unmitigated	3.0793	8.4101	31.9112	0.0699	5.0873	0.1054	5.1927	1.3604	0.0971	1.4576		5,647.1445	5,647.1445	0.2222		5,651.8106

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	773.84	773.84	773.84	2,396,226	2,396,226
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	773.84	773.84	773.84	2,396,226	2,396,226

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	13.00	12.50	12.50	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455742	0.042240	0.214741	0.150125	0.067745	0.009842	0.017929	0.023584	0.002328	0.001395	0.008801	0.000839	0.004689

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
NaturalGas Unmitigated	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	25092.5	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210
Total		**0.2706**	**2.4601**	**2.0664**	**0.0148**		**0.1870**	**0.1870**		**0.1870**	**0.1870**		**2,952.0552**	**2,952.0552**	**0.0566**	**0.0541**	**2,970.0210**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Hotel	18.3357	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1977**	**1.7976**	**1.5100**	**0.0108**		**0.1366**	**0.1366**		**0.1366**	**0.1366**		**2,157.1389**	**2,157.1389**	**0.0414**	**0.0396**	**2,170.2669**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.2493	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Unmitigated	8.5081	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5735					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7100e-003	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Total	**8.5081**	**3.6000e-004**	**0.0392**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0832**	**0.0832**	**2.3000e-004**		**0.0879**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7100e-003	3.6000e-004	0.0392	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.3000e-004		0.0879
Total	**7.2493**	**3.6000e-004**	**0.0392**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0832**	**0.0832**	**2.3000e-004**		**0.0879**

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

10.0 Vegetation

Paso Robles Resort Hotel - Phase I (Main Hotel)

San Luis Obispo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	48.00	1000sqft	1.10	48,000.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Hotel	136.00	Room	36.33	197,472.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	488.3	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Assumes 2022 Buildout year. Construction does not apply.

Land Use - Main Hotel=136 rooms. Total site acreage=36.33. 196 space parking lot. 48,000 sf other asphalt surfaces.

Construction Phase - Const. does not apply.

Off-road Equipment - .

Trips and VMT - .

Demolition - .

Grading - .

Vehicle Trips - Based on trip-gen rate derived from the traffic analysis, 5.694 trips/room, includes trips for onsite amenities (e.g., restaurant, meeting rooms, etc.). 12.5/13 miles for NW/W trips.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - .

Construction Off-road Equipment Mitigation - .

Area Mitigation - Assumes use of low VOC paint, maximum 50 g/L.

Energy Mitigation - Includes 30% increase in energy efficiency for non-commercial uses with compliance with current building standards, compared to previous standards (CEC 2015) and energy-efficient appliances.

Water Mitigation - Includes installation of low-flow water fixtures and water-efficient irrigation systems.

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	50.00	1.00
tblLandUse	LotAcreage	4.53	36.33
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	488.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2022
tblVehicleTrips	CC_TL	5.00	12.50
tblVehicleTrips	CNW_TL	5.00	12.50
tblVehicleTrips	ST_TR	8.19	5.69
tblVehicleTrips	SU_TR	5.95	5.69
tblVehicleTrips	WD_TR	8.17	5.69

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	2.6700e-003	0.0290	0.0238	4.0000e-005	6.3700e-003	1.1500e-003	7.5200e-003	1.0300e-003	1.0700e-003	2.1000e-003	0.0000	3.6506	3.6506	5.2000e-004	0.0000	3.6615
Total	**2.6700e-003**	**0.0290**	**0.0238**	**4.0000e-005**	**6.3700e-003**	**1.1500e-003**	**7.5200e-003**	**1.0300e-003**	**1.0700e-003**	**2.1000e-003**	**0.0000**	**3.6506**	**3.6506**	**5.2000e-004**	**0.0000**	**3.6615**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	2.6700e-003	0.0290	0.0238	4.0000e-005	6.3700e-003	1.1500e-003	7.5200e-003	1.0300e-003	1.0700e-003	2.1000e-003	0.0000	3.6506	3.6506	5.2000e-004	0.0000	3.6615
Total	**2.6700e-003**	**0.0290**	**0.0238**	**4.0000e-005**	**6.3700e-003**	**1.1500e-003**	**7.5200e-003**	**1.0300e-003**	**1.0700e-003**	**2.1000e-003**	**0.0000**	**3.6506**	**3.6506**	**5.2000e-004**	**0.0000**	**3.6615**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5526	6.0000e-005	6.4100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0131
Energy	0.0494	0.4490	0.3771	2.6900e-003		0.0341	0.0341		0.0341	0.0341	0.0000	873.1748	873.1748	0.0267	0.0129	877.7332
Mobile	0.4536	1.1013	4.5942	0.0128	0.9027	0.0167	0.9194	0.2419	0.0154	0.2573	0.0000	888.5415	888.5415	0.0306	0.0000	889.1846
Waste						0.0000	0.0000		0.0000	0.0000	15.1147	0.0000	15.1147	0.8933	0.0000	33.8730
Water						0.0000	0.0000		0.0000	0.0000	1.0945	4.4318	5.5263	0.1126	2.7000e-003	8.7281
Total	**2.0556**	**1.5504**	**4.9778**	**0.0155**	**0.9027**	**0.0508**	**0.9535**	**0.2419**	**0.0495**	**0.2915**	**16.2092**	**1,766.1605**	**1,782.3697**	**1.0632**	**0.0156**	**1,809.5320**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3229	6.0000e-005	6.4100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0131
Energy	0.0361	0.3281	0.2756	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	701.8097	701.8097	0.0224	0.0101	705.4034
Mobile	0.4536	1.1013	4.5942	0.0128	0.9027	0.0167	0.9194	0.2419	0.0154	0.2573	0.0000	888.5415	888.5415	0.0306	0.0000	889.1846
Waste						0.0000	0.0000		0.0000	0.0000	11.3360	0.0000	11.3360	0.6699	0.0000	25.4048
Water						0.0000	0.0000		0.0000	0.0000	0.8756	3.5867	4.4623	0.0901	2.1600e-003	7.0228
Total	**1.8126**	**1.4295**	**4.8762**	**0.0148**	**0.9027**	**0.0416**	**0.9444**	**0.2419**	**0.0403**	**0.2823**	**12.2116**	**1,593.9504**	**1,606.1620**	**0.8130**	**0.0122**	**1,627.0287**

	ROG	NOx	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	**11.82**	**7.80**	**2.04**	**4.65**	**0.00**	**18.08**	**0.96**	**0.00**	**18.55**	**3.15**	**24.66**	**9.75**	**9.89**	**23.53**	**21.54**	**10.09**

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	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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	6	15.00	0.00	52.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8500e-003	0.0000	5.8500e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0200e-003	0.0214	0.0170	2.0000e-005		1.0600e-003	1.0600e-003		9.9000e-004	9.9000e-004	0.0000	1.8309	1.8309	5.0000e-004	0.0000	1.8415
Total	**2.0200e-003**	**0.0214**	**0.0170**	**2.0000e-005**	**5.8500e-003**	**1.0600e-003**	**6.9100e-003**	**8.9000e-004**	**9.9000e-004**	**1.8800e-003**	**0.0000**	**1.8309**	**1.8309**	**5.0000e-004**	**0.0000**	**1.8415**

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	6.2000e-004	7.5700e-003	6.4300e-003	2.0000e-005	4.4000e-004	9.0000e-005	5.3000e-004	1.2000e-004	8.0000e-005	2.1000e-004	0.0000	1.7606	1.7606	1.0000e-005	0.0000	1.7608
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	3.0000e-005	5.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0592	0.0592	0.0000	0.0000	0.0592
Total	**6.5000e-004**	**7.6200e-003**	**6.8400e-003**	**2.0000e-005**	**5.1000e-004**	**9.0000e-005**	**6.0000e-004**	**1.4000e-004**	**8.0000e-005**	**2.3000e-004**	**0.0000**	**1.8197**	**1.8197**	**1.0000e-005**	**0.0000**	**1.8201**

3.2 Demolition - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8500e-003	0.0000	5.8500e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0200e-003	0.0214	0.0170	2.0000e-005		1.0600e-003	1.0600e-003		9.9000e-004	9.9000e-004	0.0000	1.8309	1.8309	5.0000e-004	0.0000	1.8415
Total	**2.0200e-003**	**0.0214**	**0.0170**	**2.0000e-005**	**5.8500e-003**	**1.0600e-003**	**6.9100e-003**	**8.9000e-004**	**9.9000e-004**	**1.8800e-003**	**0.0000**	**1.8309**	**1.8309**	**5.0000e-004**	**0.0000**	**1.8415**

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	6.2000e-004	7.5700e-003	6.4300e-003	2.0000e-005	4.4000e-004	9.0000e-005	5.3000e-004	1.2000e-004	8.0000e-005	2.1000e-004	0.0000	1.7606	1.7606	1.0000e-005	0.0000	1.7608
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	3.0000e-005	5.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0592	0.0592	0.0000	0.0000	0.0592
Total	**6.5000e-004**	**7.6200e-003**	**6.8400e-003**	**2.0000e-005**	**5.1000e-004**	**9.0000e-005**	**6.0000e-004**	**1.4000e-004**	**8.0000e-005**	**2.3000e-004**	**0.0000**	**1.8197**	**1.8197**	**1.0000e-005**	**0.0000**	**1.8201**

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	0.4536	1.1013	4.5942	0.0128	0.9027	0.0167	0.9194	0.2419	0.0154	0.2573	0.0000	888.5415	888.5415	0.0306	0.0000	889.1846
Unmitigated	0.4536	1.1013	4.5942	0.0128	0.9027	0.0167	0.9194	0.2419	0.0154	0.2573	0.0000	888.5415	888.5415	0.0306	0.0000	889.1846

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	774.38	774.38	774.38	2,397,910	2,397,910
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	774.38	774.38	774.38	2,397,910	2,397,910

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	13.00	12.50	12.50	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.454968	0.042327	0.214633	0.150226	0.067641	0.009835	0.017975	0.024142	0.002353	0.001408	0.008947	0.000814	0.004731

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	344.6712	344.6712	0.0155	3.5300e-003	346.0913
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	384.4289	384.4289	0.0173	3.9400e-003	386.0129
NaturalGas Mitigated	0.0361	0.3281	0.2756	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	357.1385	357.1385	6.8500e-003	6.5500e-003	359.3120
NaturalGas Unmitigated	0.0494	0.4490	0.3771	2.6900e-003		0.0341	0.0341		0.0341	0.0341	0.0000	488.7459	488.7459	9.3700e-003	8.9600e-003	491.7203

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Hotel	9.15875e+006	0.0494	0.4490	0.3771	2.6900e-003		0.0341	0.0341		0.0341	0.0341	0.0000	488.7459	488.7459	9.3700e-003	8.9600e-003	491.7203
Total		**0.0494**	**0.4490**	**0.3771**	**2.6900e-003**		**0.0341**	**0.0341**		**0.0341**	**0.0341**	**0.0000**	**488.7459**	**488.7459**	**9.3700e-003**	**8.9600e-003**	**491.7203**

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Hotel	6.69252e+006	0.0361	0.3281	0.2756	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	357.1385	357.1385	6.8500e-003	6.5500e-003	359.3120
Total		**0.0361**	**0.3281**	**0.2756**	**1.9700e-003**		**0.0249**	**0.0249**		**0.0249**	**0.0249**	**0.0000**	**357.1385**	**357.1385**	**6.8500e-003**	**6.5500e-003**	**359.3120**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.66666e+006	369.1479	0.0166	3.7800e-003	370.6690
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	68992	15.2810	6.9000e-004	1.6000e-004	15.3439
Total		**384.4289**	**0.0173**	**3.9400e-003**	**386.0129**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.48716e+006	329.3902	0.0148	3.3700e-003	330.7474
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	68992	15.2810	6.9000e-004	1.6000e-004	15.3439
Total		**344.6712**	**0.0155**	**3.5300e-003**	**346.0913**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3229	6.0000e-005	6.4100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0131
Unmitigated	1.5526	6.0000e-005	6.4100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0131

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	0.2872					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2649					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-004	6.0000e-005	6.4100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0131
Total	**1.5527**	**6.0000e-005**	**6.4100e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0125**	**0.0125**	**3.0000e-005**	**0.0000**	**0.0131**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0574					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2649					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-004	6.0000e-005	6.4100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0131
Total	**1.3229**	**6.0000e-005**	**6.4100e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0125**	**0.0125**	**3.0000e-005**	**0.0000**	**0.0131**

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	4.4623	0.0901	2.1600e-003	7.0228
Unmitigated	5.5263	0.1126	2.7000e-003	8.7281

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.44988 / 0.38332	5.5263	0.1126	2.7000e-003	8.7281
Other 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		**5.5263**	**0.1126**	**2.7000e-003**	**8.7281**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	2.7599 / 0.359938	4.4623	0.0901	2.1600e-003	7.0228
Other 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		**4.4623**	**0.0901**	**2.1600e-003**	**7.0228**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	15.1147	0.8933	0.0000	33.8730
Mitigated	11.3360	0.6699	0.0000	25.4048

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	74.46	15.1147	0.8933	0.0000	33.8730
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**15.1147**	**0.8933**	**0.0000**	**33.8730**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	55.845	11.3360	0.6699	0.0000	25.4048
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**11.3360**	**0.6699**	**0.0000**	**25.4048**

9.0 Operational Offroad

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

10.0 Vegetation

Paso Robles Resort Hotel - Phase I at Buildout

San Luis Obispo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	48.00	1000sqft	1.10	48,000.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Hotel	136.00	Room	36.33	197,472.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	488.3	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Assumes 2022 Buildout year. Construction does not apply.

Land Use - Main Hotel=136 rooms. Total site acreage=36.33. 196 space parking lot. 48,000 sf other asphalt surfaces.

Construction Phase - Const. does not apply.

Off-road Equipment - .

Trips and VMT - .

Demolition - .

Grading - .

Vehicle Trips - Based on trip-gen rate derived from the traffic analysis, 5.694 trips/room, includes trips for onsite amenities (e.g., restaurant, meeting rooms, etc.). 12.5/13 miles for NW/W trips.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - .

Construction Off-road Equipment Mitigation - .

Area Mitigation - Assumes use of low VOC paint, maximum 50 g/L.

Energy Mitigation - Includes 30% increase in energy efficiency for non-commercial uses with compliance with current building standards, compared to previous standards (CEC 2015) and energy-efficient appliances.

Water Mitigation - Includes installation of low-flow water fixtures and water-efficient irrigation systems.

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	50.00	1.00
tblLandUse	LotAcreage	4.53	36.33
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	488.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2022
tblVehicleTrips	CC_TL	5.00	12.50
tblVehicleTrips	CNW_TL	5.00	12.50
tblVehicleTrips	ST_TR	8.19	5.69
tblVehicleTrips	SU_TR	5.95	5.69
tblVehicleTrips	WD_TR	8.17	5.69

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	5.2373	57.4618	45.0296	0.0808	12.7583	2.3089	15.0672	2.0595	2.1487	4.2081	0.0000	8,057.3419	8,057.3419	1.1407	0.0000	8,081.2959
Total	**5.2373**	**57.4618**	**45.0296**	**0.0808**	**12.7583**	**2.3089**	**15.0672**	**2.0595**	**2.1487**	**4.2081**	**0.0000**	**8,057.3419**	**8,057.3419**	**1.1407**	**0.0000**	**8,081.2959**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	5.2373	57.4618	45.0296	0.0808	12.7583	2.3089	15.0672	2.0595	2.1487	4.2081	0.0000	8,057.3419	8,057.3419	1.1407	0.0000	8,081.2959
Total	**5.2373**	**57.4618**	**45.0296**	**0.0808**	**12.7583**	**2.3089**	**15.0672**	**2.0595**	**2.1487**	**4.2081**	**0.0000**	**8,057.3419**	**8,057.3419**	**1.1407**	**0.0000**	**8,081.2959**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.5080	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Energy	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210
Mobile	2.4599	5.7133	23.9972	0.0725	5.0912	0.0917	5.1829	1.3615	0.0846	1.4460		5,536.6285	5,536.6285	0.1856		5,540.5260
Total	**11.2385**	**8.1737**	**26.1025**	**0.0872**	**5.0912**	**0.2788**	**5.3700**	**1.3615**	**0.2717**	**1.6331**		**8,488.7669**	**8,488.7669**	**0.2424**	**0.0541**	**8,510.6347**

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	7.2492	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Energy	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
Mobile	2.4599	5.7133	23.9972	0.0725	5.0912	0.0917	5.1829	1.3615	0.0846	1.4460		5,536.6285	5,536.6285	0.1856		5,540.5260
Total	**9.9068**	**7.5113**	**25.5461**	**0.0833**	**5.0912**	**0.2284**	**5.3196**	**1.3615**	**0.2213**	**1.5828**		**7,693.8506**	**7,693.8506**	**0.2272**	**0.0396**	**7,710.8807**

	ROG	NOx	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	11.85	8.10	2.13	4.55	0.00	18.06	0.94	0.00	18.53	3.08	0.00	9.36	9.36	6.28	26.92	9.40

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	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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	6	15.00	0.00	52.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.7054	0.0000	11.7054	1.7726	0.0000	1.7726			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**11.7054**	**2.1252**	**13.8306**	**1.7726**	**1.9797**	**3.7523**		**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	1.1318	14.6809	10.3110	0.0392	0.9046	0.1826	1.0873	0.2476	0.1680	0.4155		3,885.1675	3,885.1675	0.0261		3,885.7153
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	0.0573	0.0839	0.8251	1.6900e-003	0.1483	1.0800e-003	0.1494	0.0393	9.9000e-004	0.0403		135.7071	135.7071	7.2600e-003		135.8595
Total	**1.1891**	**14.7647**	**11.1362**	**0.0409**	**1.0529**	**0.1837**	**1.2366**	**0.2869**	**0.1690**	**0.4558**		**4,020.8746**	**4,020.8746**	**0.0334**		**4,021.5748**

3.2 Demolition - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.7054	0.0000	11.7054	1.7726	0.0000	1.7726			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**11.7054**	**2.1252**	**13.8306**	**1.7726**	**1.9797**	**3.7523**	**0.0000**	**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	1.1318	14.6809	10.3110	0.0392	0.9046	0.1826	1.0873	0.2476	0.1680	0.4155		3,885.1675	3,885.1675	0.0261		3,885.7153
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	0.0573	0.0839	0.8251	1.6900e-003	0.1483	1.0800e-003	0.1494	0.0393	9.9000e-004	0.0403		135.7071	135.7071	7.2600e-003		135.8595
Total	**1.1891**	**14.7647**	**11.1362**	**0.0409**	**1.0529**	**0.1837**	**1.2366**	**0.2869**	**0.1690**	**0.4558**		**4,020.8746**	**4,020.8746**	**0.0334**		**4,021.5748**

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	2.4599	5.7133	23.9972	0.0725	5.0912	0.0917	5.1829	1.3615	0.0846	1.4460		5,536.6285	5,536.6285	0.1856		5,540.5260
Unmitigated	2.4599	5.7133	23.9972	0.0725	5.0912	0.0917	5.1829	1.3615	0.0846	1.4460		5,536.6285	5,536.6285	0.1856		5,540.5260

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	774.38	774.38	774.38	2,397,910	2,397,910
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	774.38	774.38	774.38	2,397,910	2,397,910

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	13.00	12.50	12.50	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.454968	0.042327	0.214633	0.150226	0.067641	0.009835	0.017975	0.024142	0.002353	0.001408	0.008947	0.000814	0.004731

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
NaturalGas Unmitigated	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	25092.5	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210
Total		**0.2706**	**2.4601**	**2.0664**	**0.0148**		**0.1870**	**0.1870**		**0.1870**	**0.1870**		**2,952.0552**	**2,952.0552**	**0.0566**	**0.0541**	**2,970.0210**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Hotel	18.3357	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1977**	**1.7976**	**1.5100**	**0.0108**		**0.1366**	**0.1366**		**0.1366**	**0.1366**		**2,157.1389**	**2,157.1389**	**0.0414**	**0.0396**	**2,170.2669**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.2492	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Unmitigated	8.5080	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5735					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6100e-003	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Total	**8.5080**	**3.5000e-004**	**0.0389**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0832**	**0.0832**	**2.2000e-004**		**0.0878**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6100e-003	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Total	**7.2492**	**3.5000e-004**	**0.0389**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0832**	**0.0832**	**2.2000e-004**		**0.0878**

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

10.0 Vegetation

Paso Robles Resort Hotel - Phase I at Buildout

San Luis Obispo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	48.00	1000sqft	1.10	48,000.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Hotel	136.00	Room	36.33	197,472.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	488.3	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Assumes 2022 Buildout year. Construction does not apply.

Land Use - Main Hotel=136 rooms. Total site acreage=36.33. 196 space parking lot. 48,000 sf other asphalt surfaces.

Construction Phase - Const. does not apply.

Off-road Equipment - .

Trips and VMT - .

Demolition - .

Grading - .

Vehicle Trips - Based on trip-gen rate derived from the traffic analysis, 5.694 trips/room, includes trips for onsite amenities (e.g., restaurant, meeting rooms, etc.). 12.5/13 miles for NW/W trips.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - .

Construction Off-road Equipment Mitigation - .

Area Mitigation - Assumes use of low VOC paint, maximum 50 g/L.

Energy Mitigation - Includes 30% increase in energy efficiency for non-commercial uses with compliance with current building standards, compared to previous standards (CEC 2015) and energy-efficient appliances.

Water Mitigation - Includes installation of low-flow water fixtures and water-efficient irrigation systems.

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	50.00	1.00
tblLandUse	LotAcreage	4.53	36.33
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	488.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2022
tblVehicleTrips	CC_TL	5.00	12.50
tblVehicleTrips	CNW_TL	5.00	12.50
tblVehicleTrips	ST_TR	8.19	5.69
tblVehicleTrips	SU_TR	5.95	5.69
tblVehicleTrips	WD_TR	8.17	5.69

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	5.4274	57.8178	49.1272	0.0807	12.7583	2.3095	15.0679	2.0595	2.1492	4.2087	0.0000	8,041.9947	8,041.9947	1.1410	0.0000	8,065.9563
Total	**5.4274**	**57.8178**	**49.1272**	**0.0807**	**12.7583**	**2.3095**	**15.0679**	**2.0595**	**2.1492**	**4.2087**	**0.0000**	**8,041.9947**	**8,041.9947**	**1.1410**	**0.0000**	**8,065.9563**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	5.4274	57.8178	49.1272	0.0807	12.7583	2.3095	15.0679	2.0595	2.1492	4.2087	0.0000	8,041.9947	8,041.9947	1.1410	0.0000	8,065.9563
Total	**5.4274**	**57.8178**	**49.1272**	**0.0807**	**12.7583**	**2.3095**	**15.0679**	**2.0595**	**2.1492**	**4.2087**	**0.0000**	**8,041.9947**	**8,041.9947**	**1.1410**	**0.0000**	**8,065.9563**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.5080	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Energy	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210
Mobile	2.6431	6.0708	26.3818	0.0700	5.0912	0.0920	5.1832	1.3615	0.0848	1.4463		5,355.4445	5,355.4445	0.1858		5,359.3464
Total	**11.4217**	**8.5312**	**28.4871**	**0.0847**	**5.0912**	**0.2791**	**5.3703**	**1.3615**	**0.2719**	**1.6334**		**8,307.5829**	**8,307.5829**	**0.2426**	**0.0541**	**8,329.4551**

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	7.2492	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Energy	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
Mobile	2.6431	6.0708	26.3818	0.0700	5.0912	0.0920	5.1832	1.3615	0.0848	1.4463		5,355.4445	5,355.4445	0.1858		5,359.3464
Total	**10.0900**	**7.8688**	**27.9307**	**0.0808**	**5.0912**	**0.2287**	**5.3199**	**1.3615**	**0.2216**	**1.5831**		**7,512.6666**	**7,512.6666**	**0.2274**	**0.0396**	**7,529.7011**

	ROG	NOx	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	11.66	7.76	1.95	4.68	0.00	18.04	0.94	0.00	18.51	3.08	0.00	9.57	9.57	6.28	26.92	9.60

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	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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	6	15.00	0.00	52.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.7054	0.0000	11.7054	1.7726	0.0000	1.7726			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**11.7054**	**2.1252**	**13.8306**	**1.7726**	**1.9797**	**3.7523**		**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	1.3179	15.0257	14.4049	0.0391	0.9046	0.1832	1.0879	0.2476	0.1685	0.4161		3,876.1281	3,876.1281	0.0265		3,876.6837
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	0.0613	0.0951	0.8289	1.6100e-003	0.1483	1.0800e-003	0.1494	0.0393	9.9000e-004	0.0403		129.3992	129.3992	7.2600e-003		129.5516
Total	**1.3792**	**15.1207**	**15.2338**	**0.0407**	**1.0529**	**0.1843**	**1.2373**	**0.2869**	**0.1695**	**0.4564**		**4,005.5273**	**4,005.5273**	**0.0337**		**4,006.2353**

3.2 Demolition - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.7054	0.0000	11.7054	1.7726	0.0000	1.7726			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**11.7054**	**2.1252**	**13.8306**	**1.7726**	**1.9797**	**3.7523**	**0.0000**	**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	1.3179	15.0257	14.4049	0.0391	0.9046	0.1832	1.0879	0.2476	0.1685	0.4161		3,876.1281	3,876.1281	0.0265		3,876.6837
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	0.0613	0.0951	0.8289	1.6100e-003	0.1483	1.0800e-003	0.1494	0.0393	9.9000e-004	0.0403		129.3992	129.3992	7.2600e-003		129.5516
Total	**1.3792**	**15.1207**	**15.2338**	**0.0407**	**1.0529**	**0.1843**	**1.2373**	**0.2869**	**0.1695**	**0.4564**		**4,005.5273**	**4,005.5273**	**0.0337**		**4,006.2353**

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	2.6431	6.0708	26.3818	0.0700	5.0912	0.0920	5.1832	1.3615	0.0848	1.4463		5,355.4445	5,355.4445	0.1858		5,359.3464
Unmitigated	2.6431	6.0708	26.3818	0.0700	5.0912	0.0920	5.1832	1.3615	0.0848	1.4463		5,355.4445	5,355.4445	0.1858		5,359.3464

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	774.38	774.38	774.38	2,397,910	2,397,910
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	774.38	774.38	774.38	2,397,910	2,397,910

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	13.00	12.50	12.50	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.454968	0.042327	0.214633	0.150226	0.067641	0.009835	0.017975	0.024142	0.002353	0.001408	0.008947	0.000814	0.004731

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
NaturalGas Unmitigated	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	25092.5	0.2706	2.4601	2.0664	0.0148		0.1870	0.1870		0.1870	0.1870		2,952.0552	2,952.0552	0.0566	0.0541	2,970.0210
Total		**0.2706**	**2.4601**	**2.0664**	**0.0148**		**0.1870**	**0.1870**		**0.1870**	**0.1870**		**2,952.0552**	**2,952.0552**	**0.0566**	**0.0541**	**2,970.0210**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	18.3357	0.1977	1.7976	1.5100	0.0108		0.1366	0.1366		0.1366	0.1366		2,157.1389	2,157.1389	0.0414	0.0396	2,170.2669
Total		**0.1977**	**1.7976**	**1.5100**	**0.0108**		**0.1366**	**0.1366**		**0.1366**	**0.1366**		**2,157.1389**	**2,157.1389**	**0.0414**	**0.0396**	**2,170.2669**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.2492	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Unmitigated	8.5080	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5735					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6100e-003	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Total	**8.5080**	**3.5000e-004**	**0.0389**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0832**	**0.0832**	**2.2000e-004**		**0.0878**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6100e-003	3.5000e-004	0.0389	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0832	0.0832	2.2000e-004		0.0878
Total	**7.2492**	**3.5000e-004**	**0.0389**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0832**	**0.0832**	**2.2000e-004**		**0.0878**

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

10.0 Vegetation

Paso Robles Resort Hotel - Phase II

San Luis Obispo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	187.00	Space	1.68	74,800.00	0
Hotel	155.00	Room	5.17	225,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	488.3	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 construction start year. Includes RPS adjustment.

Land Use - Phase II Hotels=155 rooms. 187 space parking lot.

Construction Phase - Construction schedule and activity durations based on model defaults.

Off-road Equipment - Construction equipment based on model defaults.

Trips and VMT - Construction vehicle trips based on model defaults.

Demolition - No demolition

Grading - Material balanced onsite.

Vehicle Trips - Based on trip-gen rate derived from the traffic analysis, 5.694 trips/room, includes trips for onsite amenities (e.g., restaurant, meeting rooms, etc.). 12.5/13 miles for NW/W trips.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - Carbon sequestration included in Phase I model run.

Construction Off-road Equipment Mitigation - Includes watering, 15 mph speed limit, T3 equipment.

Area Mitigation - Assumes use of low VOC paint, maximum 50 g/L.

Energy Mitigation - Includes 30% increase in energy efficiency for non-commercial uses with compliance with current building standards, compared to previous standards (CEC 2015) and energy-efficient appliances.

Water Mitigation - Includes installation of low-flow water fixtures and water-efficient irrigation systems.

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	PhaseEndDate	1/25/2021	1/26/2021
tblConstructionPhase	PhaseStartDate	3/10/2020	3/11/2020
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	488.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2022
tblVehicleTrips	CC_TL	5.00	12.50
tblVehicleTrips	CNW_TL	5.00	12.50
tblVehicleTrips	ST_TR	8.19	5.69

tblVehicleTrips	SU_TR	5.95	5.69
tblVehicleTrips	WD_TR	8.17	5.69

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					
2020	0.3556	2.8110	3.3195	5.6800e-003	0.3099	0.1460	0.4559	0.1247	0.1367	0.2615	0.0000	457.3575	457.3575	0.0787	0.0000	459.0109
2021	2.6756	0.3230	0.4153	7.3000e-004	0.0167	0.0166	0.0333	4.4900e-003	0.0155	0.0200	0.0000	59.7733	59.7733	0.0121	0.0000	60.0264
Total	**3.0312**	**3.1339**	**3.7348**	**6.4100e-003**	**0.3266**	**0.1625**	**0.4892**	**0.1292**	**0.1522**	**0.2814**	**0.0000**	**517.1308**	**517.1308**	**0.0908**	**0.0000**	**519.0373**

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					
2020	0.1708	2.0827	3.3556	5.6800e-003	0.2148	0.1129	0.3277	0.0739	0.1125	0.1864	0.0000	457.3572	457.3572	0.0787	0.0000	459.0106
2021	2.6562	0.2768	0.4527	7.3000e-004	0.0167	0.0154	0.0322	4.4900e-003	0.0154	0.0199	0.0000	59.7732	59.7732	0.0121	0.0000	60.0263
Total	**2.8269**	**2.3595**	**3.8083**	**6.4100e-003**	**0.2315**	**0.1283**	**0.3598**	**0.0784**	**0.1279**	**0.2063**	**0.0000**	**517.1304**	**517.1304**	**0.0908**	**0.0000**	**519.0369**

	ROG	NOx	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	**6.74**	**24.71**	**-1.97**	**0.00**	**29.11**	**21.08**	**26.44**	**39.33**	**15.97**	**26.70**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4350	5.0000e-005	5.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0112	0.0112	3.0000e-005	0.0000	0.0118
Energy	0.0563	0.5117	0.4298	3.0700e-003		0.0389	0.0389		0.0389	0.0389	0.0000	992.3259	992.3259	0.0303	0.0147	997.5095
Mobile	0.5169	1.2552	5.2361	0.0146	1.0288	0.0190	1.0478	0.2757	0.0175	0.2933	0.0000	1,012.6760	1,012.6760	0.0349	0.0000	1,013.4089
Waste						0.0000	0.0000		0.0000	0.0000	17.2258	0.0000	17.2258	1.0180	0.0000	38.6042
Water						0.0000	0.0000		0.0000	0.0000	1.2474	5.0509	6.2983	0.1284	3.0800e-003	9.9474
Total	**2.0083**	**1.7669**	**5.6716**	**0.0177**	**1.0288**	**0.0579**	**1.0868**	**0.2757**	**0.0565**	**0.3322**	**18.4732**	**2,010.0640**	**2,028.5372**	**1.2116**	**0.0178**	**2,059.4818**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2243	5.0000e-005	5.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0112	0.0112	3.0000e-005	0.0000	0.0118
Energy	0.0411	0.3739	0.3141	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	797.0201	797.0201	0.0254	0.0115	801.1042
Mobile	0.5169	1.2552	5.2361	0.0146	1.0288	0.0190	1.0478	0.2757	0.0175	0.2933	0.0000	1,012.6760	1,012.6760	0.0349	0.0000	1,013.4089
Waste						0.0000	0.0000		0.0000	0.0000	12.9194	0.0000	12.9194	0.7635	0.0000	28.9531
Water						0.0000	0.0000		0.0000	0.0000	0.9979	4.0878	5.0857	0.1027	2.4600e-003	8.0039
Total	**1.7824**	**1.6291**	**5.5559**	**0.0168**	**1.0288**	**0.0475**	**1.0763**	**0.2757**	**0.0460**	**0.3217**	**13.9173**	**1,813.7951**	**1,827.7124**	**0.9265**	**0.0139**	**1,851.4819**

	ROG	NOx	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	**11.25**	**7.80**	**2.04**	**4.70**	**0.00**	**18.07**	**0.96**	**0.00**	**18.55**	**3.15**	**24.66**	**9.76**	**9.90**	**23.53**	**21.58**	**10.10**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/28/2020	2/10/2020	5	10	
2	Grading	Grading	2/11/2020	3/9/2020	5	20	
3	Building Construction	Building Construction	3/11/2020	1/26/2021	5	230	
4	Paving	Paving	1/27/2021	2/23/2021	5	20	
5	Architectural Coating	Architectural Coating	2/24/2021	3/23/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 340,956; Non-Residential Outdoor: 113,652 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	126.00	49.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1943	0.1646	2.0000e-004		9.6500e-003	9.6500e-003		8.8800e-003	8.8800e-003	0.0000	17.2015	17.2015	5.5600e-003	0.0000	17.3183
Total	**0.0186**	**0.1943**	**0.1646**	**2.0000e-004**	**0.0903**	**9.6500e-003**	**0.1000**	**0.0497**	**8.8800e-003**	**0.0585**	**0.0000**	**17.2015**	**17.2015**	**5.5600e-003**	**0.0000**	**17.3183**

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	4.0000e-004	3.3600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.6319	0.6319	3.0000e-005	0.0000	0.6326
Total	**2.3000e-004**	**4.0000e-004**	**3.3600e-003**	**1.0000e-005**	**8.7000e-004**	**1.0000e-005**	**8.7000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.6319**	**0.6319**	**3.0000e-005**	**0.0000**	**0.6326**

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					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7600e-003	0.0973	0.1170	2.0000e-004		4.8100e-003	4.8100e-003		4.8100e-003	4.8100e-003	0.0000	17.2015	17.2015	5.5600e-003	0.0000	17.3183
Total	**4.7600e-003**	**0.0973**	**0.1170**	**2.0000e-004**	**0.0352**	**4.8100e-003**	**0.0400**	**0.0194**	**4.8100e-003**	**0.0242**	**0.0000**	**17.2015**	**17.2015**	**5.5600e-003**	**0.0000**	**17.3183**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	4.0000e-004	3.3600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.6319	0.6319	3.0000e-005	0.0000	0.6326
Total	**2.3000e-004**	**4.0000e-004**	**3.3600e-003**	**1.0000e-005**	**8.7000e-004**	**1.0000e-005**	**8.7000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.6319**	**0.6319**	**3.0000e-005**	**0.0000**	**0.6326**

3.3 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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0256	0.2590	0.2268	3.0000e-004		0.0137	0.0137		0.0126	0.0126	0.0000	26.1236	26.1236	8.4500e-003	0.0000	26.3010
Total	**0.0256**	**0.2590**	**0.2268**	**3.0000e-004**	**0.0655**	**0.0137**	**0.0793**	**0.0337**	**0.0126**	**0.0463**	**0.0000**	**26.1236**	**26.1236**	**8.4500e-003**	**0.0000**	**26.3010**

3.3 Grading - 2020

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	3.8000e-004	6.7000e-004	5.6000e-003	2.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0532	1.0532	5.0000e-005	0.0000	1.0543
Total	**3.8000e-004**	**6.7000e-004**	**5.6000e-003**	**2.0000e-005**	**1.4400e-003**	**1.0000e-005**	**1.4500e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0532**	**1.0532**	**5.0000e-005**	**0.0000**	**1.0543**

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					0.0256	0.0000	0.0256	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2500e-003	0.1482	0.2038	3.0000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003	0.0000	26.1236	26.1236	8.4500e-003	0.0000	26.3010
Total	**7.2500e-003**	**0.1482**	**0.2038**	**3.0000e-004**	**0.0256**	**7.8500e-003**	**0.0334**	**0.0131**	**7.8500e-003**	**0.0210**	**0.0000**	**26.1236**	**26.1236**	**8.4500e-003**	**0.0000**	**26.3010**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	6.7000e-004	5.6000e-003	2.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0532	1.0532	5.0000e-005	0.0000	1.0543
Total	**3.8000e-004**	**6.7000e-004**	**5.6000e-003**	**2.0000e-005**	**1.4400e-003**	**1.0000e-005**	**1.4500e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0532**	**1.0532**	**5.0000e-005**	**0.0000**	**1.0543**

3.4 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	tons/yr										MT/yr					
Off-Road	0.2238	2.0229	1.7817	2.8400e-003		0.1180	0.1180		0.1109	0.1109	0.0000	244.4889	244.4889	0.0596	0.0000	245.7398
Total	**0.2238**	**2.0229**	**1.7817**	**2.8400e-003**		**0.1180**	**0.1180**		**0.1109**	**0.1109**	**0.0000**	**244.4889**	**244.4889**	**0.0596**	**0.0000**	**245.7398**

3.4 Building Construction - 2020

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	0.0528	0.2743	0.6390	8.8000e-004	0.0231	3.7600e-003	0.0269	6.6200e-003	3.4500e-003	0.0101	0.0000	74.0782	74.0782	5.9000e-004	0.0000	74.0906
Worker	0.0342	0.0594	0.4984	1.4400e-003	0.1286	8.6000e-004	0.1294	0.0342	8.0000e-004	0.0350	0.0000	93.7801	93.7801	4.4900e-003	0.0000	93.8744
Total	**0.0870**	**0.3337**	**1.1374**	**2.3200e-003**	**0.1517**	**4.6200e-003**	**0.1563**	**0.0408**	**4.2500e-003**	**0.0451**	**0.0000**	**167.8584**	**167.8584**	**5.0800e-003**	**0.0000**	**167.9649**

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	0.0712	1.5025	1.8885	2.8400e-003		0.0956	0.0956		0.0956	0.0956	0.0000	244.4886	244.4886	0.0596	0.0000	245.7395
Total	**0.0712**	**1.5025**	**1.8885**	**2.8400e-003**		**0.0956**	**0.0956**		**0.0956**	**0.0956**	**0.0000**	**244.4886**	**244.4886**	**0.0596**	**0.0000**	**245.7395**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0528	0.2743	0.6390	8.8000e-004	0.0231	3.7600e-003	0.0269	6.6200e-003	3.4500e-003	0.0101	0.0000	74.0782	74.0782	5.9000e-004	0.0000	74.0906
Worker	0.0342	0.0594	0.4984	1.4400e-003	0.1286	8.6000e-004	0.1294	0.0342	8.0000e-004	0.0350	0.0000	93.7801	93.7801	4.4900e-003	0.0000	93.8744
Total	**0.0870**	**0.3337**	**1.1374**	**2.3200e-003**	**0.1517**	**4.6200e-003**	**0.1563**	**0.0408**	**4.2500e-003**	**0.0451**	**0.0000**	**167.8584**	**167.8584**	**5.0800e-003**	**0.0000**	**167.9649**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0170	0.1561	0.1488	2.4000e-004		8.5900e-003	8.5900e-003		8.0800e-003	8.0800e-003	0.0000	20.7610	20.7610	5.0000e-003	0.0000	20.8660
Total	**0.0170**	**0.1561**	**0.1488**	**2.4000e-004**		**8.5900e-003**	**8.5900e-003**		**8.0800e-003**	**8.0800e-003**	**0.0000**	**20.7610**	**20.7610**	**5.0000e-003**	**0.0000**	**20.8660**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	4.2900e-003	0.0187	0.0519	7.0000e-005	1.9600e-003	2.8000e-004	2.2400e-003	5.6000e-004	2.6000e-004	8.2000e-004	0.0000	6.2766	6.2766	5.0000e-005	0.0000	6.2777
Worker	2.7000e-003	4.6600e-003	0.0391	1.2000e-004	0.0109	7.0000e-005	0.0110	2.9000e-003	7.0000e-005	2.9700e-003	0.0000	7.8249	7.8249	3.6000e-004	0.0000	7.8324
Total	**6.9900e-003**	**0.0234**	**0.0910**	**1.9000e-004**	**0.0129**	**3.5000e-004**	**0.0132**	**3.4600e-003**	**3.3000e-004**	**3.7900e-003**	**0.0000**	**14.1015**	**14.1015**	**4.1000e-004**	**0.0000**	**14.1101**

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	6.0400e-003	0.1276	0.1603	2.4000e-004		8.1100e-003	8.1100e-003		8.1100e-003	8.1100e-003	0.0000	20.7609	20.7609	5.0000e-003	0.0000	20.8660
Total	**6.0400e-003**	**0.1276**	**0.1603**	**2.4000e-004**		**8.1100e-003**	**8.1100e-003**		**8.1100e-003**	**8.1100e-003**	**0.0000**	**20.7609**	**20.7609**	**5.0000e-003**	**0.0000**	**20.8660**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	4.2900e-003	0.0187	0.0519	7.0000e-005	1.9600e-003	2.8000e-004	2.2400e-003	5.6000e-004	2.6000e-004	8.2000e-004	0.0000	6.2766	6.2766	5.0000e-005	0.0000	6.2777
Worker	2.7000e-003	4.6600e-003	0.0391	1.2000e-004	0.0109	7.0000e-005	0.0110	2.9000e-003	7.0000e-005	2.9700e-003	0.0000	7.8249	7.8249	3.6000e-004	0.0000	7.8324
Total	**6.9900e-003**	**0.0234**	**0.0910**	**1.9000e-004**	**0.0129**	**3.5000e-004**	**0.0132**	**3.4600e-003**	**3.3000e-004**	**3.7900e-003**	**0.0000**	**14.1015**	**14.1015**	**4.1000e-004**	**0.0000**	**14.1101**

3.5 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	0.0123	0.1266	0.1435	2.2000e-004		6.6500e-003	6.6500e-003		6.1200e-003	6.1200e-003	0.0000	19.5975	19.5975	6.3400e-003	0.0000	19.7306
Paving	2.2000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0145**	**0.1266**	**0.1435**	**2.2000e-004**		**6.6500e-003**	**6.6500e-003**		**6.1200e-003**	**6.1200e-003**	**0.0000**	**19.5975**	**19.5975**	**6.3400e-003**	**0.0000**	**19.7306**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	6.2000e-004	5.1700e-003	2.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0350	1.0350	5.0000e-005	0.0000	1.0360
Total	**3.6000e-004**	**6.2000e-004**	**5.1700e-003**	**2.0000e-005**	**1.4400e-003**	**1.0000e-005**	**1.4500e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0350**	**1.0350**	**5.0000e-005**	**0.0000**	**1.0360**

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	5.4900e-003	0.1106	0.1693	2.2000e-004		5.9800e-003	5.9800e-003		5.9800e-003	5.9800e-003	0.0000	19.5975	19.5975	6.3400e-003	0.0000	19.7306
Paving	2.2000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.6900e-003**	**0.1106**	**0.1693**	**2.2000e-004**		**5.9800e-003**	**5.9800e-003**		**5.9800e-003**	**5.9800e-003**	**0.0000**	**19.5975**	**19.5975**	**6.3400e-003**	**0.0000**	**19.7306**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	6.2000e-004	5.1700e-003	2.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0350	1.0350	5.0000e-005	0.0000	1.0360
Total	**3.6000e-004**	**6.2000e-004**	**5.1700e-003**	**2.0000e-005**	**1.4400e-003**	**1.0000e-005**	**1.4500e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0350**	**1.0350**	**5.0000e-005**	**0.0000**	**1.0360**

3.6 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	2.6339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5569
Total	**2.6361**	**0.0153**	**0.0182**	**3.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5569**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	1.0300e-003	8.6200e-003	3.0000e-005	2.4100e-003	2.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.7251	1.7251	8.0000e-005	0.0000	1.7267
Total	**6.0000e-004**	**1.0300e-003**	**8.6200e-003**	**3.0000e-005**	**2.4100e-003**	**2.0000e-005**	**2.4200e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.7251**	**1.7251**	**8.0000e-005**	**0.0000**	**1.7267**

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	2.6339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-004	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5569
Total	**2.6345**	**0.0136**	**0.0183**	**3.0000e-005**		**9.5000e-004**	**9.5000e-004**		**9.5000e-004**	**9.5000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5569**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	1.0300e-003	8.6200e-003	3.0000e-005	2.4100e-003	2.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.7251	1.7251	8.0000e-005	0.0000	1.7267
Total	**6.0000e-004**	**1.0300e-003**	**8.6200e-003**	**3.0000e-005**	**2.4100e-003**	**2.0000e-005**	**2.4200e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.7251**	**1.7251**	**8.0000e-005**	**0.0000**	**1.7267**

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	0.5169	1.2552	5.2361	0.0146	1.0288	0.0190	1.0478	0.2757	0.0175	0.2933	0.0000	1,012.6760	1,012.6760	0.0349	0.0000	1,013.4089
Unmitigated	0.5169	1.2552	5.2361	0.0146	1.0288	0.0190	1.0478	0.2757	0.0175	0.2933	0.0000	1,012.6760	1,012.6760	0.0349	0.0000	1,013.4089

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	882.57	882.57	882.57	2,732,912	2,732,912
Parking Lot	0.00	0.00	0.00		
Total	882.57	882.57	882.57	2,732,912	2,732,912

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	13.00	12.50	12.50	19.40	61.60	19.00	58	38	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.454968	0.042327	0.214633	0.150226	0.067641	0.009835	0.017975	0.024142	0.002353	0.001408	0.008947	0.000814	0.004731

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	389.9872	389.9872	0.0176	3.9900e-003	391.5941
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	435.2994	435.2994	0.0196	4.4600e-003	437.0930
NaturalGas Mitigated	0.0411	0.3739	0.3141	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	407.0329	407.0329	7.8000e-003	7.4600e-003	409.5100
NaturalGas Unmitigated	0.0563	0.5117	0.4298	3.0700e-003		0.0389	0.0389		0.0389	0.0389	0.0000	557.0265	557.0265	0.0107	0.0102	560.4165

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					
Hotel	1.04383e+007	0.0563	0.5117	0.4298	3.0700e-003		0.0389	0.0389		0.0389	0.0389	0.0000	557.0265	557.0265	0.0107	0.0102	560.4165
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		**0.0563**	**0.5117**	**0.4298**	**3.0700e-003**		**0.0389**	**0.0389**		**0.0389**	**0.0389**	**0.0000**	**557.0265**	**557.0265**	**0.0107**	**0.0102**	**560.4165**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	7.62751e+006	0.0411	0.3739	0.3141	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	407.0329	407.0329	7.8000e-003	7.4600e-003	409.5100
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		**0.0411**	**0.3739**	**0.3141**	**2.2400e-003**		**0.0284**	**0.0284**		**0.0284**	**0.0284**	**0.0000**	**407.0329**	**407.0329**	**7.8000e-003**	**7.4600e-003**	**409.5100**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.89951e+006	420.7201	0.0190	4.3100e-003	422.4536
Parking Lot	65824	14.5793	6.6000e-004	1.5000e-004	14.6394
Total		**435.2994**	**0.0196**	**4.4600e-003**	**437.0930**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.69493e+006	375.4079	0.0169	3.8400e-003	376.9548
Parking Lot	65824	14.5793	6.6000e-004	1.5000e-004	14.6394
Total		**389.9872**	**0.0176**	**3.9900e-003**	**391.5941**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2243	5.0000e-005	5.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0112	0.0112	3.0000e-005	0.0000	0.0118
Unmitigated	1.4350	5.0000e-005	5.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0112	0.0112	3.0000e-005	0.0000	0.0118

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	0.2634					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.4000e-004	5.0000e-005	5.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0112	0.0112	3.0000e-005	0.0000	0.0118
Total	**1.4350**	**5.0000e-005**	**5.7700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0112**	**0.0112**	**3.0000e-005**	**0.0000**	**0.0118**

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	0.0527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.4000e-004	5.0000e-005	5.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0112	0.0112	3.0000e-005	0.0000	0.0118
Total	**1.2243**	**5.0000e-005**	**5.7700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0112**	**0.0112**	**3.0000e-005**	**0.0000**	**0.0118**

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	5.0857	0.1027	2.4600e-003	8.0039
Unmitigated	6.2983	0.1284	3.0800e-003	9.9474

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.93185 / 0.436872	6.2983	0.1284	3.0800e-003	9.9474
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**6.2983**	**0.1284**	**3.0800e-003**	**9.9474**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.14548 / 0.410223	5.0857	0.1027	2.4600e-003	8.0039
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**5.0857**	**0.1027**	**2.4600e-003**	**8.0039**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.9194	0.7635	0.0000	28.9531
Unmitigated	17.2258	1.0180	0.0000	38.6042

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	84.86	17.2258	1.0180	0.0000	38.6042
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**17.2258**	**1.0180**	**0.0000**	**38.6042**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	63.645	12.9194	0.7635	0.0000	28.9531
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**12.9194**	**0.7635**	**0.0000**	**28.9531**

9.0 Operational Offroad

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

10.0 Vegetation

Paso Robles Resort Hotel - Phase II

San Luis Obispo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	187.00	Space	1.68	74,800.00	0
Hotel	155.00	Room	5.17	225,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	488.3	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 construction start year. Includes RPS adjustment.

Land Use - Phase II Hotels=155 rooms. 187 space parking lot.

Construction Phase - Construction schedule and activity durations based on model defaults.

Off-road Equipment - Construction equipment based on model defaults.

Trips and VMT - Construction vehicle trips based on model defaults.

Demolition - No demolition

Grading - Material balanced onsite.

Vehicle Trips - Based on trip-gen rate derived from the traffic analysis, 5.694 trips/room, includes trips for onsite amenities (e.g., restaurant, meeting rooms, etc.). 12.5/13 miles for NW/W trips.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - Carbon sequestration included in Phase I model run.

Construction Off-road Equipment Mitigation - Includes watering, 15 mph speed limit, T3 equipment.

Area Mitigation - Assumes use of low VOC paint, maximum 50 g/L.

Energy Mitigation - Includes 30% increase in energy efficiency for non-commercial uses with compliance with current building standards, compared to previous standards (CEC 2015) and energy-efficient appliances.

Water Mitigation - Includes installation of low-flow water fixtures and water-efficient irrigation systems.

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	PhaseEndDate	1/25/2021	1/26/2021
tblConstructionPhase	PhaseStartDate	3/10/2020	3/11/2020
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	488.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2022
tblVehicleTrips	CC_TL	5.00	12.50
tblVehicleTrips	CNW_TL	5.00	12.50
tblVehicleTrips	ST_TR	8.19	5.69

tblVehicleTrips	SU_TR	5.95	5.69
tblVehicleTrips	WD_TR	8.17	5.69

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					
2020	3.7717	38.9359	33.6156	0.0493	18.2442	1.9320	20.1762	9.9779	1.7775	11.7553	0.0000	4,331.1144	4,331.1144	1.2332	0.0000	4,357.0109
2021	263.6678	19.8338	25.2944	0.0493	1.4688	0.9938	2.4626	0.3941	0.9337	1.3278	0.0000	4,312.3149	4,312.3149	0.7039	0.0000	4,327.0973
Total	**267.4395**	**58.7696**	**58.9100**	**0.0985**	**19.7130**	**2.9259**	**22.6388**	**10.3720**	**2.7112**	**13.0832**	**0.0000**	**8,643.4293**	**8,643.4293**	**1.9371**	**0.0000**	**8,684.1082**

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					
2020	1.4416	19.5303	27.1894	0.0493	7.2238	0.9622	8.1860	3.9202	0.9621	4.8823	0.0000	4,331.1144	4,331.1144	1.2332	0.0000	4,357.0109
2021	263.5084	16.6677	26.5723	0.0493	1.4688	0.9405	2.4093	0.3941	0.9375	1.3315	0.0000	4,312.3149	4,312.3149	0.7039	0.0000	4,327.0973
Total	**264.9500**	**36.1980**	**53.7617**	**0.0985**	**8.6926**	**1.9028**	**10.5953**	**4.3142**	**1.8996**	**6.2138**	**0.0000**	**8,643.4293**	**8,643.4293**	**1.9371**	**0.0000**	**8,684.1082**

	ROG	NOx	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	**0.93**	**38.41**	**8.74**	**0.00**	**55.90**	**34.97**	**53.20**	**58.40**	**29.93**	**52.51**	**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	7.8635	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Energy	0.3084	2.8037	2.3551	0.0168		0.2131	0.2131		0.2131	0.2131		3,364.4747	3,364.4747	0.0645	0.0617	3,384.9504
Mobile	2.8036	6.5115	27.3498	0.0826	5.8025	0.1045	5.9069	1.5517	0.0964	1.6481		6,310.1281	6,310.1281	0.2115		6,314.5701
Total	**10.9754**	**9.3156**	**29.7399**	**0.0994**	**5.8025**	**0.3177**	**6.1201**	**1.5517**	**0.3096**	**1.8613**		**9,674.6776**	**9,674.6776**	**0.2762**	**0.0617**	**9,699.5994**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.7089	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Energy	0.2254	2.0488	1.7210	0.0123		0.1557	0.1557		0.1557	0.1557		2,458.5039	2,458.5039	0.0471	0.0451	2,473.4660
Mobile	2.8036	6.5115	27.3498	0.0826	5.8025	0.1045	5.9069	1.5517	0.0964	1.6481		6,310.1281	6,310.1281	0.2115		6,314.5701
Total	**9.7378**	**8.5606**	**29.1057**	**0.0949**	**5.8025**	**0.2603**	**6.0628**	**1.5517**	**0.2522**	**1.8039**		**8,768.7069**	**8,768.7069**	**0.2588**	**0.0451**	**8,788.1150**

	ROG	NOx	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	**11.28**	**8.10**	**2.13**	**4.56**	**0.00**	**18.06**	**0.94**	**0.00**	**18.53**	**3.08**	**0.00**	**9.36**	**9.36**	**6.29**	**26.93**	**9.40**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/28/2020	2/10/2020	5	10	
2	Grading	Grading	2/11/2020	3/9/2020	5	20	
3	Building Construction	Building Construction	3/11/2020	1/26/2021	5	230	
4	Paving	Paving	1/27/2021	2/23/2021	5	20	
5	Architectural Coating	Architectural Coating	2/24/2021	3/23/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 340,956; Non-Residential Outdoor: 113,652 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	126.00	49.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764		3,792.2816	3,792.2816	1.2265		3,818.0381
Total	**3.7250**	**38.8640**	**32.9264**	**0.0391**	**18.0663**	**1.9309**	**19.9971**	**9.9307**	**1.7764**	**11.7071**		**3,792.2816**	**3,792.2816**	**1.2265**		**3,818.0381**

3.2 Site Preparation - 2020

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	0.0466	0.0719	0.6892	2.0200e-003	0.1780	1.1600e-003	0.1791	0.0472	1.0800e-003	0.0483		144.9651	144.9651	6.6700e-003		145.1051
Total	**0.0466**	**0.0719**	**0.6892**	**2.0200e-003**	**0.1780**	**1.1600e-003**	**0.1791**	**0.0472**	**1.0800e-003**	**0.0483**		**144.9651**	**144.9651**	**6.6700e-003**		**145.1051**

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.9611	0.9611		0.9611	0.9611	0.0000	3,792.2816	3,792.2816	1.2265		3,818.0381
Total	**0.9515**	**19.4584**	**23.4003**	**0.0391**	**7.0458**	**0.9611**	**8.0069**	**3.8730**	**0.9611**	**4.8340**	**0.0000**	**3,792.2816**	**3,792.2816**	**1.2265**		**3,818.0381**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.0466	0.0719	0.6892	2.0200e-003	0.1780	1.1600e-003	0.1791	0.0472	1.0800e-003	0.0483		144.9651	144.9651	6.6700e-003		145.1051
Total	**0.0466**	**0.0719**	**0.6892**	**2.0200e-003**	**0.1780**	**1.1600e-003**	**0.1791**	**0.0472**	**1.0800e-003**	**0.0483**		**144.9651**	**144.9651**	**6.6700e-003**		**145.1051**

3.3 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.5551	25.8955	22.6816	0.0297		1.3735	1.3735		1.2636	1.2636		2,879.6353	2,879.6353	0.9313		2,899.1932
Total	**2.5551**	**25.8955**	**22.6816**	**0.0297**	**6.5523**	**1.3735**	**7.9258**	**3.3675**	**1.2636**	**4.6311**		**2,879.6353**	**2,879.6353**	**0.9313**		**2,899.1932**

3.3 Grading - 2020

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	0.0389	0.0599	0.5743	1.6900e-003	0.1483	9.7000e-004	0.1493	0.0393	9.0000e-004	0.0402		120.8042	120.8042	5.5600e-003		120.9209
Total	**0.0389**	**0.0599**	**0.5743**	**1.6900e-003**	**0.1483**	**9.7000e-004**	**0.1493**	**0.0393**	**9.0000e-004**	**0.0402**		**120.8042**	**120.8042**	**5.5600e-003**		**120.9209**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	0.7250	14.8148	20.3762	0.0297		0.7854	0.7854		0.7854	0.7854	0.0000	2,879.6353	2,879.6353	0.9313		2,899.1932
Total	**0.7250**	**14.8148**	**20.3762**	**0.0297**	**2.5554**	**0.7854**	**3.3409**	**1.3133**	**0.7854**	**2.0988**	**0.0000**	**2,879.6353**	**2,879.6353**	**0.9313**		**2,899.1932**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.0389	0.0599	0.5743	1.6900e-003	0.1483	9.7000e-004	0.1493	0.0393	9.0000e-004	0.0402		120.8042	120.8042	5.5600e-003		120.9209
Total	**0.0389**	**0.0599**	**0.5743**	**1.6900e-003**	**0.1483**	**9.7000e-004**	**0.1493**	**0.0393**	**9.0000e-004**	**0.0402**		**120.8042**	**120.8042**	**5.5600e-003**		**120.9209**

3.4 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	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**2.1113**	**19.0839**	**16.8084**	**0.0268**		**1.1128**	**1.1128**		**1.0465**	**1.0465**		**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.4 Building Construction - 2020

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	0.4441	2.5252	4.5497	8.2900e-003	0.2231	0.0352	0.2583	0.0637	0.0324	0.0961		773.8789	773.8789	6.0000e-003		774.0050
Worker	0.3263	0.5030	4.8241	0.0142	1.2457	8.1200e-003	1.2538	0.3304	7.5300e-003	0.3379		1,014.7555	1,014.7555	0.0467		1,015.7355
Total	**0.7704**	**3.0282**	**9.3738**	**0.0225**	**1.4688**	**0.0433**	**1.5121**	**0.3941**	**0.0399**	**0.4340**		**1,788.6345**	**1,788.6345**	**0.0527**		**1,789.7405**

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	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**	**0.0000**	**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4441	2.5252	4.5497	8.2900e-003	0.2231	0.0352	0.2583	0.0637	0.0324	0.0961		773.8789	773.8789	6.0000e-003		774.0050
Worker	0.3263	0.5030	4.8241	0.0142	1.2457	8.1200e-003	1.2538	0.3304	7.5300e-003	0.3379		1,014.7555	1,014.7555	0.0467		1,015.7355
Total	**0.7704**	**3.0282**	**9.3738**	**0.0225**	**1.4688**	**0.0433**	**1.5121**	**0.3941**	**0.0399**	**0.4340**		**1,788.6345**	**1,788.6345**	**0.0527**		**1,789.7405**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979		2,542.7817	2,542.7817	0.6126		2,555.6462
Total	**1.8931**	**17.3403**	**16.5376**	**0.0268**		**0.9549**	**0.9549**		**0.8979**	**0.8979**		**2,542.7817**	**2,542.7817**	**0.6126**		**2,555.6462**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/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	0.4267	2.0285	4.2893	8.2700e-003	0.2231	0.0309	0.2540	0.0637	0.0284	0.0921		772.2819	772.2819	6.0100e-003		772.4081
Worker	0.3046	0.4651	4.4674	0.0142	1.2457	8.0600e-003	1.2537	0.3304	7.4800e-003	0.3379		997.2513	997.2513	0.0441		998.1778
Total	**0.7313**	**2.4935**	**8.7567**	**0.0224**	**1.4688**	**0.0389**	**1.5077**	**0.3941**	**0.0359**	**0.4300**		**1,769.5332**	**1,769.5332**	**0.0501**		**1,770.5859**

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	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,542.7817	2,542.7817	0.6126		2,555.6462
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**	**0.0000**	**2,542.7817**	**2,542.7817**	**0.6126**		**2,555.6462**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/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	0.4267	2.0285	4.2893	8.2700e-003	0.2231	0.0309	0.2540	0.0637	0.0284	0.0921		772.2819	772.2819	6.0100e-003		772.4081
Worker	0.3046	0.4651	4.4674	0.0142	1.2457	8.0600e-003	1.2537	0.3304	7.4800e-003	0.3379		997.2513	997.2513	0.0441		998.1778
Total	**0.7313**	**2.4935**	**8.7567**	**0.0224**	**1.4688**	**0.0389**	**1.5077**	**0.3941**	**0.0359**	**0.4300**		**1,769.5332**	**1,769.5332**	**0.0501**		**1,770.5859**

3.5 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	1.2308	12.6607	14.3528	0.0223		0.6652	0.6652		0.6120	0.6120		2,160.2530	2,160.2530	0.6987		2,174.9250
Paving	0.2201					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4509**	**12.6607**	**14.3528**	**0.0223**		**0.6652**	**0.6652**		**0.6120**	**0.6120**		**2,160.2530**	**2,160.2530**	**0.6987**		**2,174.9250**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0363	0.0554	0.5318	1.6900e-003	0.1483	9.6000e-004	0.1493	0.0393	8.9000e-004	0.0402		118.7204	118.7204	5.2500e-003		118.8307
Total	**0.0363**	**0.0554**	**0.5318**	**1.6900e-003**	**0.1483**	**9.6000e-004**	**0.1493**	**0.0393**	**8.9000e-004**	**0.0402**		**118.7204**	**118.7204**	**5.2500e-003**		**118.8307**

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	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.2530	2,160.2530	0.6987		2,174.9250
Paving	0.2201					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7691**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.2530**	**2,160.2530**	**0.6987**		**2,174.9250**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0363	0.0554	0.5318	1.6900e-003	0.1483	9.6000e-004	0.1493	0.0393	8.9000e-004	0.0402		118.7204	118.7204	5.2500e-003		118.8307
Total	**0.0363**	**0.0554**	**0.5318**	**1.6900e-003**	**0.1483**	**9.6000e-004**	**0.1493**	**0.0393**	**8.9000e-004**	**0.0402**		**118.7204**	**118.7204**	**5.2500e-003**		**118.8307**

3.6 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	263.3885					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		281.8537
Total	**263.6074**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.8537**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0604	0.0923	0.8864	2.8100e-003	0.2472	1.6000e-003	0.2488	0.0656	1.4800e-003	0.0670		197.8673	197.8673	8.7500e-003		198.0512
Total	**0.0604**	**0.0923**	**0.8864**	**2.8100e-003**	**0.2472**	**1.6000e-003**	**0.2488**	**0.0656**	**1.4800e-003**	**0.0670**		**197.8673**	**197.8673**	**8.7500e-003**		**198.0512**

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	263.3885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.8537
Total	**263.4479**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.8537**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0604	0.0923	0.8864	2.8100e-003	0.2472	1.6000e-003	0.2488	0.0656	1.4800e-003	0.0670		197.8673	197.8673	8.7500e-003		198.0512
Total	**0.0604**	**0.0923**	**0.8864**	**2.8100e-003**	**0.2472**	**1.6000e-003**	**0.2488**	**0.0656**	**1.4800e-003**	**0.0670**		**197.8673**	**197.8673**	**8.7500e-003**		**198.0512**

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	2.8036	6.5115	27.3498	0.0826	5.8025	0.1045	5.9069	1.5517	0.0964	1.6481		6,310.1281	6,310.1281	0.2115		6,314.5701
Unmitigated	2.8036	6.5115	27.3498	0.0826	5.8025	0.1045	5.9069	1.5517	0.0964	1.6481		6,310.1281	6,310.1281	0.2115		6,314.5701

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	882.57	882.57	882.57	2,732,912	2,732,912
Parking Lot	0.00	0.00	0.00		
Total	882.57	882.57	882.57	2,732,912	2,732,912

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	13.00	12.50	12.50	19.40	61.60	19.00	58	38	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.454968	0.042327	0.214633	0.150226	0.067641	0.009835	0.017975	0.024142	0.002353	0.001408	0.008947	0.000814	0.004731

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2254	2.0488	1.7210	0.0123		0.1557	0.1557		0.1557	0.1557		2,458.5039	2,458.5039	0.0471	0.0451	2,473.4660
NaturalGas Unmitigated	0.3084	2.8037	2.3551	0.0168		0.2131	0.2131		0.2131	0.2131		3,364.4747	3,364.4747	0.0645	0.0617	3,384.9504

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					
Hotel	28598	0.3084	2.8037	2.3551	0.0168		0.2131	0.2131		0.2131	0.2131		3,364.4747	3,364.4747	0.0645	0.0617	3,384.9504
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.3084**	**2.8037**	**2.3551**	**0.0168**		**0.2131**	**0.2131**		**0.2131**	**0.2131**		**3,364.4747**	**3,364.4747**	**0.0645**	**0.0617**	**3,384.9504**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	20.8973	0.2254	2.0488	1.7210	0.0123		0.1557	0.1557		0.1557	0.1557		2,458.5039	2,458.5039	0.0471	0.0451	2,473.4660
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2254**	**2.0488**	**1.7210**	**0.0123**		**0.1557**	**0.1557**		**0.1557**	**0.1557**		**2,458.5039**	**2,458.5039**	**0.0471**	**0.0451**	**2,473.4660**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.7089	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Unmitigated	7.8635	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.4170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2500e-003	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Total	**7.8635**	**3.2000e-004**	**0.0350**	**0.0000**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**		**0.0749**	**0.0749**	**2.0000e-004**		**0.0790**

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	0.2886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.4170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2500e-003	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Total	**6.7089**	**3.2000e-004**	**0.0350**	**0.0000**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**		**0.0749**	**0.0749**	**2.0000e-004**		**0.0790**

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

10.0 Vegetation

Paso Robles Resort Hotel - Phase II

San Luis Obispo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	187.00	Space	1.68	74,800.00	0
Hotel	155.00	Room	5.17	225,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	488.3	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 construction start year. Includes RPS adjustment.

Land Use - Phase II Hotels=155 rooms. 187 space parking lot.

Construction Phase - Construction schedule and activity durations based on model defaults.

Off-road Equipment - Construction equipment based on model defaults.

Trips and VMT - Construction vehicle trips based on model defaults.

Demolition - No demolition

Grading - Material balanced onsite.

Vehicle Trips - Based on trip-gen rate derived from the traffic analysis, 5.694 trips/room, includes trips for onsite amenities (e.g., restaurant, meeting rooms, etc.). 12.5/13 miles for NW/W trips.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - Carbon sequestration included in Phase I model run.

Construction Off-road Equipment Mitigation - Includes watering, 15 mph speed limit, T3 equipment.

Area Mitigation - Assumes use of low VOC paint, maximum 50 g/L.

Energy Mitigation - Includes 30% increase in energy efficiency for non-commercial uses with compliance with current building standards, compared to previous standards (CEC 2015) and energy-efficient appliances.

Water Mitigation - Includes installation of low-flow water fixtures and water-efficient irrigation systems.

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	PhaseEndDate	1/25/2021	1/26/2021
tblConstructionPhase	PhaseStartDate	3/10/2020	3/11/2020
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	488.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2022
tblVehicleTrips	CC_TL	5.00	12.50
tblVehicleTrips	CNW_TL	5.00	12.50
tblVehicleTrips	ST_TR	8.19	5.69

tblVehicleTrips	SU_TR	5.95	5.69
tblVehicleTrips	WD_TR	8.17	5.69

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					
2020	3.7742	38.9455	33.6031	0.0486	18.2442	1.9320	20.1762	9.9779	1.7775	11.7553	0.0000	4,275.3263	4,275.3263	1.2332	0.0000	4,301.2229
2021	263.6712	19.9287	27.5834	0.0485	1.4688	0.9943	2.4631	0.3941	0.9342	1.3282	0.0000	4,257.3046	4,257.3046	0.7039	0.0000	4,272.0869
Total	**267.4454**	**58.8742**	**61.1864**	**0.0971**	**19.7130**	**2.9263**	**22.6393**	**10.3720**	**2.7116**	**13.0836**	**0.0000**	**8,532.6309**	**8,532.6309**	**1.9371**	**0.0000**	**8,573.3098**

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					
2020	1.5568	19.5399	29.4914	0.0486	7.2238	0.9622	8.1860	3.9202	0.9621	4.8823	0.0000	4,275.3263	4,275.3263	1.2332	0.0000	4,301.2229
2021	263.5117	16.7626	28.8613	0.0485	1.4688	0.9410	2.4098	0.3941	0.9379	1.3320	0.0000	4,257.3046	4,257.3046	0.7039	0.0000	4,272.0869
Total	**265.0685**	**36.3025**	**58.3527**	**0.0971**	**8.6926**	**1.9032**	**10.5958**	**4.3142**	**1.9000**	**6.2143**	**0.0000**	**8,532.6309**	**8,532.6309**	**1.9371**	**0.0000**	**8,573.3098**

	ROG	NOx	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	0.89	38.34	4.63	0.00	55.90	34.96	53.20	58.40	29.93	52.50	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	7.8635	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Energy	0.3084	2.8037	2.3551	0.0168		0.2131	0.2131		0.2131	0.2131		3,364.4747	3,364.4747	0.0645	0.0617	3,384.9504
Mobile	3.0123	6.9190	30.0675	0.0798	5.8025	0.1048	5.9073	1.5517	0.0967	1.6484		6,103.6316	6,103.6316	0.2118		6,108.0786
Total	**11.1842**	**9.7230**	**32.4576**	**0.0966**	**5.8025**	**0.3180**	**6.1205**	**1.5517**	**0.3099**	**1.8616**		**9,468.1811**	**9,468.1811**	**0.2765**	**0.0617**	**9,493.1079**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.7089	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Energy	0.2254	2.0488	1.7210	0.0123		0.1557	0.1557		0.1557	0.1557		2,458.5039	2,458.5039	0.0471	0.0451	2,473.4660
Mobile	3.0123	6.9190	30.0675	0.0798	5.8025	0.1048	5.9073	1.5517	0.0967	1.6484		6,103.6316	6,103.6316	0.2118		6,108.0786
Total	**9.9466**	**8.9680**	**31.8234**	**0.0920**	**5.8025**	**0.2607**	**6.0631**	**1.5517**	**0.2525**	**1.8042**		**8,562.2104**	**8,562.2104**	**0.2591**	**0.0451**	**8,581.6236**

	ROG	NOx	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	**11.07**	**7.76**	**1.95**	**4.69**	**0.00**	**18.04**	**0.94**	**0.00**	**18.51**	**3.08**	**0.00**	**9.57**	**9.57**	**6.28**	**26.93**	**9.60**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/28/2020	2/10/2020	5	10	
2	Grading	Grading	2/11/2020	3/9/2020	5	20	
3	Building Construction	Building Construction	3/11/2020	1/26/2021	5	230	
4	Paving	Paving	1/27/2021	2/23/2021	5	20	
5	Architectural Coating	Architectural Coating	2/24/2021	3/23/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 340,956; Non-Residential Outdoor: 113,652 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	126.00	49.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764		3,792.2816	3,792.2816	1.2265		3,818.0381
Total	**3.7250**	**38.8640**	**32.9264**	**0.0391**	**18.0663**	**1.9309**	**19.9971**	**9.9307**	**1.7764**	**11.7071**		**3,792.2816**	**3,792.2816**	**1.2265**		**3,818.0381**

3.2 Site Preparation - 2020

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	0.0492	0.0815	0.6766	1.9300e-003	0.1780	1.1600e-003	0.1791	0.0472	1.0800e-003	0.0483		138.1951	138.1951	6.6700e-003		138.3351
Total	**0.0492**	**0.0815**	**0.6766**	**1.9300e-003**	**0.1780**	**1.1600e-003**	**0.1791**	**0.0472**	**1.0800e-003**	**0.0483**		**138.1951**	**138.1951**	**6.6700e-003**		**138.3351**

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.9611	0.9611		0.9611	0.9611	0.0000	3,792.2816	3,792.2816	1.2265		3,818.0381
Total	**0.9515**	**19.4584**	**23.4003**	**0.0391**	**7.0458**	**0.9611**	**8.0069**	**3.8730**	**0.9611**	**4.8340**	**0.0000**	**3,792.2816**	**3,792.2816**	**1.2265**		**3,818.0381**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.0492	0.0815	0.6766	1.9300e-003	0.1780	1.1600e-003	0.1791	0.0472	1.0800e-003	0.0483		138.1951	138.1951	6.6700e-003		138.3351
Total	**0.0492**	**0.0815**	**0.6766**	**1.9300e-003**	**0.1780**	**1.1600e-003**	**0.1791**	**0.0472**	**1.0800e-003**	**0.0483**		**138.1951**	**138.1951**	**6.6700e-003**		**138.3351**

3.3 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.5551	25.8955	22.6816	0.0297		1.3735	1.3735		1.2636	1.2636		2,879.6353	2,879.6353	0.9313		2,899.1932
Total	**2.5551**	**25.8955**	**22.6816**	**0.0297**	**6.5523**	**1.3735**	**7.9258**	**3.3675**	**1.2636**	**4.6311**		**2,879.6353**	**2,879.6353**	**0.9313**		**2,899.1932**

3.3 Grading - 2020

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	0.0410	0.0679	0.5639	1.6100e-003	0.1483	9.7000e-004	0.1493	0.0393	9.0000e-004	0.0402		115.1626	115.1626	5.5600e-003		115.2793
Total	**0.0410**	**0.0679**	**0.5639**	**1.6100e-003**	**0.1483**	**9.7000e-004**	**0.1493**	**0.0393**	**9.0000e-004**	**0.0402**		**115.1626**	**115.1626**	**5.5600e-003**		**115.2793**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	0.7250	14.8148	20.3762	0.0297		0.7854	0.7854		0.7854	0.7854	0.0000	2,879.6353	2,879.6353	0.9313		2,899.1932
Total	**0.7250**	**14.8148**	**20.3762**	**0.0297**	**2.5554**	**0.7854**	**3.3409**	**1.3133**	**0.7854**	**2.0988**	**0.0000**	**2,879.6353**	**2,879.6353**	**0.9313**		**2,899.1932**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.0410	0.0679	0.5639	1.6100e-003	0.1483	9.7000e-004	0.1493	0.0393	9.0000e-004	0.0402		115.1626	115.1626	5.5600e-003		115.2793
Total	**0.0410**	**0.0679**	**0.5639**	**1.6100e-003**	**0.1483**	**9.7000e-004**	**0.1493**	**0.0393**	**9.0000e-004**	**0.0402**		**115.1626**	**115.1626**	**5.5600e-003**		**115.2793**

3.4 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	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**2.1113**	**19.0839**	**16.8084**	**0.0268**		**1.1128**	**1.1128**		**1.0465**	**1.0465**		**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.4 Building Construction - 2020

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	0.5411	2.5630	6.9393	8.2400e-003	0.2231	0.0358	0.2589	0.0637	0.0329	0.0966		765.4805	765.4805	6.2500e-003		765.6118
Worker	0.3445	0.5705	4.7365	0.0135	1.2457	8.1200e-003	1.2538	0.3304	7.5300e-003	0.3379		967.3659	967.3659	0.0467		968.3459
Total	**0.8856**	**3.1336**	**11.6758**	**0.0218**	**1.4688**	**0.0439**	**1.5126**	**0.3941**	**0.0404**	**0.4345**		**1,732.8464**	**1,732.8464**	**0.0529**		**1,733.9577**

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	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**	**0.0000**	**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5411	2.5630	6.9393	8.2400e-003	0.2231	0.0358	0.2589	0.0637	0.0329	0.0966		765.4805	765.4805	6.2500e-003		765.6118
Worker	0.3445	0.5705	4.7365	0.0135	1.2457	8.1200e-003	1.2538	0.3304	7.5300e-003	0.3379		967.3659	967.3659	0.0467		968.3459
Total	**0.8856**	**3.1336**	**11.6758**	**0.0218**	**1.4688**	**0.0439**	**1.5126**	**0.3941**	**0.0404**	**0.4345**		**1,732.8464**	**1,732.8464**	**0.0529**		**1,733.9577**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979		2,542.7817	2,542.7817	0.6126		2,555.6462
Total	**1.8931**	**17.3403**	**16.5376**	**0.0268**		**0.9549**	**0.9549**		**0.8979**	**0.8979**		**2,542.7817**	**2,542.7817**	**0.6126**		**2,555.6462**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/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	0.5159	2.0613	6.6715	8.2100e-003	0.2231	0.0314	0.2545	0.0637	0.0289	0.0926		763.8812	763.8812	6.2700e-003		764.0128
Worker	0.3212	0.5272	4.3742	0.0135	1.2457	8.0600e-003	1.2537	0.3304	7.4800e-003	0.3379		950.6417	950.6417	0.0441		951.5682
Total	**0.8371**	**2.5884**	**11.0457**	**0.0217**	**1.4688**	**0.0394**	**1.5082**	**0.3941**	**0.0363**	**0.4304**		**1,714.5229**	**1,714.5229**	**0.0504**		**1,715.5810**

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	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,542.7817	2,542.7817	0.6126		2,555.6462
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**	**0.0000**	**2,542.7817**	**2,542.7817**	**0.6126**		**2,555.6462**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/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	0.5159	2.0613	6.6715	8.2100e-003	0.2231	0.0314	0.2545	0.0637	0.0289	0.0926		763.8812	763.8812	6.2700e-003		764.0128
Worker	0.3212	0.5272	4.3742	0.0135	1.2457	8.0600e-003	1.2537	0.3304	7.4800e-003	0.3379		950.6417	950.6417	0.0441		951.5682
Total	**0.8371**	**2.5884**	**11.0457**	**0.0217**	**1.4688**	**0.0394**	**1.5082**	**0.3941**	**0.0363**	**0.4304**		**1,714.5229**	**1,714.5229**	**0.0504**		**1,715.5810**

3.5 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	1.2308	12.6607	14.3528	0.0223		0.6652	0.6652		0.6120	0.6120		2,160.2530	2,160.2530	0.6987		2,174.9250
Paving	0.2201					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4509**	**12.6607**	**14.3528**	**0.0223**		**0.6652**	**0.6652**		**0.6120**	**0.6120**		**2,160.2530**	**2,160.2530**	**0.6987**		**2,174.9250**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0382	0.0628	0.5207	1.6100e-003	0.1483	9.6000e-004	0.1493	0.0393	8.9000e-004	0.0402		113.1716	113.1716	5.2500e-003		113.2819
Total	**0.0382**	**0.0628**	**0.5207**	**1.6100e-003**	**0.1483**	**9.6000e-004**	**0.1493**	**0.0393**	**8.9000e-004**	**0.0402**		**113.1716**	**113.1716**	**5.2500e-003**		**113.2819**

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	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.2530	2,160.2530	0.6987		2,174.9250
Paving	0.2201					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7691**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.2530**	**2,160.2530**	**0.6987**		**2,174.9250**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0382	0.0628	0.5207	1.6100e-003	0.1483	9.6000e-004	0.1493	0.0393	8.9000e-004	0.0402		113.1716	113.1716	5.2500e-003		113.2819
Total	**0.0382**	**0.0628**	**0.5207**	**1.6100e-003**	**0.1483**	**9.6000e-004**	**0.1493**	**0.0393**	**8.9000e-004**	**0.0402**		**113.1716**	**113.1716**	**5.2500e-003**		**113.2819**

3.6 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	263.3885					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		281.8537
Total	**263.6074**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.8537**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0637	0.1046	0.8679	2.6800e-003	0.2472	1.6000e-003	0.2488	0.0656	1.4800e-003	0.0670		188.6194	188.6194	8.7500e-003		188.8032
Total	**0.0637**	**0.1046**	**0.8679**	**2.6800e-003**	**0.2472**	**1.6000e-003**	**0.2488**	**0.0656**	**1.4800e-003**	**0.0670**		**188.6194**	**188.6194**	**8.7500e-003**		**188.8032**

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	263.3885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.8537
Total	**263.4479**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.8537**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0637	0.1046	0.8679	2.6800e-003	0.2472	1.6000e-003	0.2488	0.0656	1.4800e-003	0.0670		188.6194	188.6194	8.7500e-003		188.8032
Total	**0.0637**	**0.1046**	**0.8679**	**2.6800e-003**	**0.2472**	**1.6000e-003**	**0.2488**	**0.0656**	**1.4800e-003**	**0.0670**		**188.6194**	**188.6194**	**8.7500e-003**		**188.8032**

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	3.0123	6.9190	30.0675	0.0798	5.8025	0.1048	5.9073	1.5517	0.0967	1.6484		6,103.6316	6,103.6316	0.2118		6,108.0786
Unmitigated	3.0123	6.9190	30.0675	0.0798	5.8025	0.1048	5.9073	1.5517	0.0967	1.6484		6,103.6316	6,103.6316	0.2118		6,108.0786

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	882.57	882.57	882.57	2,732,912	2,732,912
Parking Lot	0.00	0.00	0.00		
Total	882.57	882.57	882.57	2,732,912	2,732,912

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	13.00	12.50	12.50	19.40	61.60	19.00	58	38	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.454968	0.042327	0.214633	0.150226	0.067641	0.009835	0.017975	0.024142	0.002353	0.001408	0.008947	0.000814	0.004731

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2254	2.0488	1.7210	0.0123		0.1557	0.1557		0.1557	0.1557		2,458.5039	2,458.5039	0.0471	0.0451	2,473.4660
NaturalGas Unmitigated	0.3084	2.8037	2.3551	0.0168		0.2131	0.2131		0.2131	0.2131		3,364.4747	3,364.4747	0.0645	0.0617	3,384.9504

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					
Hotel	28598	0.3084	2.8037	2.3551	0.0168		0.2131	0.2131		0.2131	0.2131		3,364.4747	3,364.4747	0.0645	0.0617	3,384.9504
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.3084**	**2.8037**	**2.3551**	**0.0168**		**0.2131**	**0.2131**		**0.2131**	**0.2131**		**3,364.4747**	**3,364.4747**	**0.0645**	**0.0617**	**3,384.9504**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	20.8973	0.2254	2.0488	1.7210	0.0123		0.1557	0.1557		0.1557	0.1557		2,458.5039	2,458.5039	0.0471	0.0451	2,473.4660
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2254**	**2.0488**	**1.7210**	**0.0123**		**0.1557**	**0.1557**		**0.1557**	**0.1557**		**2,458.5039**	**2,458.5039**	**0.0471**	**0.0451**	**2,473.4660**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.7089	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Unmitigated	7.8635	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.4170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2500e-003	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Total	**7.8635**	**3.2000e-004**	**0.0350**	**0.0000**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**		**0.0749**	**0.0749**	**2.0000e-004**		**0.0790**

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	0.2886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.4170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2500e-003	3.2000e-004	0.0350	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0749	0.0749	2.0000e-004		0.0790
Total	**6.7089**	**3.2000e-004**	**0.0350**	**0.0000**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**		**0.0749**	**0.0749**	**2.0000e-004**		**0.0790**

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

10.0 Vegetation

Paso Robles Resort Hotel - Existing Residential at Buildout

San Luis Obispo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,195.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	488.3	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Assumes year 2022 operations. Construction does not apply.

Land Use - Existing residential 1195sf floor area.

Construction Phase - Const. does not apply.

Off-road Equipment - .

Trips and VMT - .

Demolition - .

Grading - .

Vehicle Trips - Based on default trip-gen.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - .

Construction Off-road Equipment Mitigation - .

Area Mitigation - .

Energy Mitigation -

Water Mitigation - .

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Area Coating -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	1,800.00	1,195.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	488.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2022

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.0000	0.0000	0.0000	0.0000	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.0000	0.0000	0.0000	0.0000	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**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.9500e-003	1.6000e-004	0.0136	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0222	0.0222	2.0000e-005	0.0000	0.0227
Energy	1.9000e-004	1.6300e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	3.4494	3.4494	1.1000e-004	5.0000e-005	3.4673
Mobile	5.2200e-003	0.0115	0.0496	1.3000e-004	9.1200e-003	1.7000e-004	9.2900e-003	2.4400e-003	1.6000e-004	2.6000e-003	0.0000	9.0275	9.0275	3.2000e-004	0.0000	9.0341
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.5596
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.1099	0.1306	2.1300e-003	5.0000e-005	0.1912
Total	**0.0124**	**0.0133**	**0.0639**	**1.4000e-004**	**9.1200e-003**	**3.8000e-004**	**9.5000e-003**	**2.4400e-003**	**3.7000e-004**	**2.8100e-003**	**0.2704**	**12.6091**	**12.8794**	**0.0173**	**1.0000e-004**	**13.2749**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.9500e-003	1.6000e-004	0.0136	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0222	0.0222	2.0000e-005	0.0000	0.0227
Energy	1.9000e-004	1.6300e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	3.4494	3.4494	1.1000e-004	5.0000e-005	3.4673
Mobile	5.2200e-003	0.0115	0.0496	1.3000e-004	9.1200e-003	1.7000e-004	9.2900e-003	2.4400e-003	1.6000e-004	2.6000e-003	0.0000	9.0275	9.0275	3.2000e-004	0.0000	9.0341
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.5596
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.1099	0.1306	2.1300e-003	5.0000e-005	0.1912
Total	**0.0124**	**0.0133**	**0.0639**	**1.4000e-004**	**9.1200e-003**	**3.8000e-004**	**9.5000e-003**	**2.4400e-003**	**3.7000e-004**	**2.8100e-003**	**0.2704**	**12.6091**	**12.8794**	**0.0173**	**1.0000e-004**	**13.2748**

	ROG	NOx	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	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

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	0	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	0	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	0	0.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

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

3.2 Demolition - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	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
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	5.2200e-003	0.0115	0.0496	1.3000e-004	9.1200e-003	1.7000e-004	9.2900e-003	2.4400e-003	1.6000e-004	2.6000e-003	0.0000	9.0275	9.0275	3.2000e-004	0.0000	9.0341
Unmitigated	5.2200e-003	0.0115	0.0496	1.3000e-004	9.1200e-003	1.7000e-004	9.2900e-003	2.4400e-003	1.6000e-004	2.6000e-003	0.0000	9.0275	9.0275	3.2000e-004	0.0000	9.0341

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.57	10.08	8.77	24,217	24,217
Total	9.57	10.08	8.77	24,217	24,217

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.454968	0.042327	0.214633	0.150226	0.067641	0.009835	0.017975	0.024142	0.002353	0.001408	0.008947	0.000814	0.004731

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.5666	1.5666	7.0000e-005	2.0000e-005	1.5730
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.5666	1.5666	7.0000e-005	2.0000e-005	1.5730
NaturalGas Mitigated	1.9000e-004	1.6300e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8828	1.8828	4.0000e-005	3.0000e-005	1.8943
NaturalGas Unmitigated	1.9000e-004	1.6300e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8828	1.8828	4.0000e-005	3.0000e-005	1.8943

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					
Single Family Housing	35283	1.9000e-004	1.6300e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8828	1.8828	4.0000e-005	3.0000e-005	1.8943
Total		**1.9000e-004**	**1.6300e-003**	**6.9000e-004**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**1.8828**	**1.8828**	**4.0000e-005**	**3.0000e-005**	**1.8943**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	35283	1.9000e-004	1.6300e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8828	1.8828	4.0000e-005	3.0000e-005	1.8943
Total		**1.9000e-004**	**1.6300e-003**	**6.9000e-004**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**1.8828**	**1.8828**	**4.0000e-005**	**3.0000e-005**	**1.8943**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	7072.94	1.5666	7.0000e-005	2.0000e-005	1.5730
Total		**1.5666**	**7.0000e-005**	**2.0000e-005**	**1.5730**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	7072.94	1.5666	7.0000e-005	2.0000e-005	1.5730
Total		**1.5666**	**7.0000e-005**	**2.0000e-005**	**1.5730**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.9500e-003	1.6000e-004	0.0136	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0222	0.0222	2.0000e-005	0.0000	0.0227
Unmitigated	6.9500e-003	1.6000e-004	0.0136	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0222	0.0222	2.0000e-005	0.0000	0.0227

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	1.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.1000e-004	1.6000e-004	0.0136	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0222	0.0222	2.0000e-005	0.0000	0.0227
Total	**6.9500e-003**	**1.6000e-004**	**0.0136**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0222**	**0.0222**	**2.0000e-005**	**0.0000**	**0.0227**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.1000e-004	1.6000e-004	0.0136	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0222	0.0222	2.0000e-005	0.0000	0.0227
Total	**6.9500e-003**	**1.6000e-004**	**0.0136**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0222**	**0.0222**	**2.0000e-005**	**0.0000**	**0.0227**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.1306	2.1300e-003	5.0000e-005	0.1912
Unmitigated	0.1306	2.1300e-003	5.0000e-005	0.1912

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.1306	2.1300e-003	5.0000e-005	0.1912
Total		**0.1306**	**2.1300e-003**	**5.0000e-005**	**0.1912**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.1306	2.1300e-003	5.0000e-005	0.1912
Total		**0.1306**	**2.1300e-003**	**5.0000e-005**	**0.1912**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2497	0.0148	0.0000	0.5596
Unmitigated	0.2497	0.0148	0.0000	0.5596

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.5596
Total		**0.2497**	**0.0148**	**0.0000**	**0.5596**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.5596
Total		**0.2497**	**0.0148**	**0.0000**	**0.5596**

9.0 Operational Offroad

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

10.0 Vegetation

Paso Robles Resort Hotel - Existing Residential at Buildout

San Luis Obispo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,195.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	488.3	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Assumes year 2022 operations. Construction does not apply.

Land Use - Existing residential 1195sf floor area.

Construction Phase - Const. does not apply.

Off-road Equipment - .

Trips and VMT - .

Demolition - .

Grading - .

Vehicle Trips - Based on default trip-gen.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - .

Construction Off-road Equipment Mitigation - .

Area Mitigation - .

Energy Mitigation -

Water Mitigation - .

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Area Coating -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	1,800.00	1,195.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	488.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2022

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	0.0000	0.0000	0.0000	0.0000	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	0.0000	0.0000	0.0000	0.0000	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**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0383	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1516
Energy	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
Mobile	0.0299	0.0632	0.2702	7.8000e-004	0.0544	1.0000e-003	0.0554	0.0146	9.2000e-004	0.0155		59.5032	59.5032	2.0200e-003		59.5457
Total	**0.0692**	**0.0731**	**0.3565**	**8.4000e-004**	**0.0544**	**2.1800e-003**	**0.0566**	**0.0146**	**2.1000e-003**	**0.0166**	**0.0000**	**71.0242**	**71.0242**	**2.3800e-003**	**2.1000e-004**	**71.1389**

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	0.0383	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1516
Energy	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
Mobile	0.0299	0.0632	0.2702	7.8000e-004	0.0544	1.0000e-003	0.0554	0.0146	9.2000e-004	0.0155		59.5032	59.5032	2.0200e-003		59.5457
Total	**0.0692**	**0.0731**	**0.3565**	**8.4000e-004**	**0.0544**	**2.1800e-003**	**0.0566**	**0.0146**	**2.1000e-003**	**0.0166**	**0.0000**	**71.0242**	**71.0242**	**2.3800e-003**	**2.1000e-004**	**71.1389**

	ROG	NOx	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	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

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	0	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	0	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	0	0.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

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

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	0.0000	0.0000	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**

3.2 Demolition - 2017

Mitigated Construction On-Site

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

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	0.0000	0.0000	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**

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	0.0299	0.0632	0.2702	7.8000e-004	0.0544	1.0000e-003	0.0554	0.0146	9.2000e-004	0.0155		59.5032	59.5032	2.0200e-003		59.5457
Unmitigated	0.0299	0.0632	0.2702	7.8000e-004	0.0544	1.0000e-003	0.0554	0.0146	9.2000e-004	0.0155		59.5032	59.5032	2.0200e-003		59.5457

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.57	10.08	8.77	24,217	24,217
Total	9.57	10.08	8.77	24,217	24,217

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.454968	0.042327	0.214633	0.150226	0.067641	0.009835	0.017975	0.024142	0.002353	0.001408	0.008947	0.000814	0.004731

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
NaturalGas Unmitigated	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416

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					
Single Family Housing	96.6656	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
Total		**1.0400e-003**	**8.9100e-003**	**3.7900e-003**	**6.0000e-005**		**7.2000e-004**	**7.2000e-004**		**7.2000e-004**	**7.2000e-004**		**11.3724**	**11.3724**	**2.2000e-004**	**2.1000e-004**	**11.4416**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0966656	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
Total		**1.0400e-003**	**8.9100e-003**	**3.7900e-003**	**6.0000e-005**		**7.2000e-004**	**7.2000e-004**		**7.2000e-004**	**7.2000e-004**		**11.3724**	**11.3724**	**2.2000e-004**	**2.1000e-004**	**11.4416**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0383	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1516
Unmitigated	0.0383	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1516

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	0.0102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4900e-003	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1516
Total	**0.0383**	**9.5000e-004**	**0.0826**	**0.0000**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**0.1486**	**0.1486**	**1.4000e-004**	**0.0000**	**0.1516**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4900e-003	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1516
Total	**0.0383**	**9.5000e-004**	**0.0826**	**0.0000**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**0.1486**	**0.1486**	**1.4000e-004**	**0.0000**	**0.1516**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Paso Robles Resort Hotel - Existing Residential at Buildout

San Luis Obispo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,195.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.2	**Precipitation Freq (Days)**	44
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	488.3	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Assumes year 2022 operations. Construction does not apply.

Land Use - Existing residential 1195sf floor area.

Construction Phase - Const. does not apply.

Off-road Equipment - .

Trips and VMT - .

Demolition - .

Grading - .

Vehicle Trips - Based on default trip-gen.

Vechicle Emission Factors - Vehicle fleet mix based on model defaults (conservative).

Vechicle Emission Factors -

Vechicle Emission Factors -

Energy Use - Includes RPS adjustment.

Sequestration - .

Construction Off-road Equipment Mitigation - .

Area Mitigation - .

Energy Mitigation -

Water Mitigation - .

Waste Mitigation - Assumes minimum 25% diversion rate per state requirements.

Area Coating -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	1,800.00	1,195.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	488.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2022

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	0.0000	0.0000	0.0000	0.0000	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	0.0000	0.0000	0.0000	0.0000	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**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0383	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1516
Energy	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
Mobile	0.0323	0.0671	0.3031	7.5000e-004	0.0544	1.0000e-003	0.0554	0.0146	9.2000e-004	0.0155		57.5535	57.5535	2.0300e-003		57.5961
Total	**0.0716**	**0.0770**	**0.3895**	**8.1000e-004**	**0.0544**	**2.1800e-003**	**0.0566**	**0.0146**	**2.1000e-003**	**0.0167**	**0.0000**	**69.0745**	**69.0745**	**2.3900e-003**	**2.1000e-004**	**69.1893**

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	0.0383	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1516
Energy	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
Mobile	0.0323	0.0671	0.3031	7.5000e-004	0.0544	1.0000e-003	0.0554	0.0146	9.2000e-004	0.0155		57.5535	57.5535	2.0300e-003		57.5961
Total	**0.0716**	**0.0770**	**0.3895**	**8.1000e-004**	**0.0544**	**2.1800e-003**	**0.0566**	**0.0146**	**2.1000e-003**	**0.0167**	**0.0000**	**69.0745**	**69.0745**	**2.3900e-003**	**2.1000e-004**	**69.1893**

	ROG	NOx	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	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

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	0	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	0	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	0	0.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

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

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	0.0000	0.0000	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**

3.2 Demolition - 2017

Mitigated Construction On-Site

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

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	0.0000	0.0000	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**

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	0.0323	0.0671	0.3031	7.5000e-004	0.0544	1.0000e-003	0.0554	0.0146	9.2000e-004	0.0155		57.5535	57.5535	2.0300e-003		57.5961
Unmitigated	0.0323	0.0671	0.3031	7.5000e-004	0.0544	1.0000e-003	0.0554	0.0146	9.2000e-004	0.0155		57.5535	57.5535	2.0300e-003		57.5961

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.57	10.08	8.77	24,217	24,217
Total	9.57	10.08	8.77	24,217	24,217

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.454968	0.042327	0.214633	0.150226	0.067641	0.009835	0.017975	0.024142	0.002353	0.001408	0.008947	0.000814	0.004731

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
NaturalGas Unmitigated	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416

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					
Single Family Housing	96.6656	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
Total		**1.0400e-003**	**8.9100e-003**	**3.7900e-003**	**6.0000e-005**		**7.2000e-004**	**7.2000e-004**		**7.2000e-004**	**7.2000e-004**		**11.3724**	**11.3724**	**2.2000e-004**	**2.1000e-004**	**11.4416**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0966656	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
Total		**1.0400e-003**	**8.9100e-003**	**3.7900e-003**	**6.0000e-005**		**7.2000e-004**	**7.2000e-004**		**7.2000e-004**	**7.2000e-004**		**11.3724**	**11.3724**	**2.2000e-004**	**2.1000e-004**	**11.4416**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0383	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1516
Unmitigated	0.0383	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1516

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	0.0102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4900e-003	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1516
Total	**0.0383**	**9.5000e-004**	**0.0826**	**0.0000**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**0.1486**	**0.1486**	**1.4000e-004**	**0.0000**	**0.1516**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4900e-003	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1516
Total	**0.0383**	**9.5000e-004**	**0.0826**	**0.0000**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**0.1486**	**0.1486**	**1.4000e-004**	**0.0000**	**0.1516**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation