

Appendix B – Air Quality and Global Climate Change Impact Analysis

La Quinta Village Build-out Plan EIR
City of La Quinta



KUNZMAN ASSOCIATES, INC.

LA QUINTA VILLAGE BUILD-OUT PLAN

**AIR QUALITY AND GLOBAL CLIMATE CHANGE
IMPACT ANALYSIS**

March 10, 2016



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I. INTRODUCTION AND SETTING

A. Purpose and Objectives

This study was performed to address the possibility of regional and local air quality impacts, and global climate change impacts, from air emissions. The objectives of the study include:

- documentation of the atmospheric setting
- discussion of criteria pollutants and greenhouse gases
- discussion of the air quality and global climate change regulatory framework
- discussion of the air quality, greenhouse gases, and cancer risk thresholds of significance
- analysis of the construction related air quality and greenhouse gas emissions
- analysis of the operations related air quality and greenhouse gas emissions
- analysis of the conformity of the proposed project with the South Coast Air Quality Management District (SCAQMD) Air Quality Management Plan (AQMP)
- recommendations for mitigation measures

The City of La Quinta is the lead agency responsible for preparation of this air quality analysis, in accordance with the California Environmental Quality Act authorizing legislation. Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with terms unique to air quality and global climate change, a definition of terms has been provided in Appendix A.

B. Project Location

The proposed project is located south of Calle Tampico, east of Eisenhower Drive and west of Washington Street in the City of La Quinta. The site is currently zoned as Village Commercial, Neighborhood Commercial (Shopping Center), Major Community Facilities (Civic Center), and Parks and Recreation (La Quinta Community Park). The vicinity map showing the project location is provided on Figure 1.

C. Project Description

The proposed project consists of developing a build-out plan for the Village in the City of La Quinta. The proposed project consists of the following General Plan land use designations: Village Commercial (VC), General Commercial (CG), Major Community Facilities (MC), and Open Space-Recreation (OS-R). Future development in the project area assumes development of the remaining vacant properties as well as redevelopment of underutilized properties with more intensive uses. This would include residential development at densities of 20-30 dwelling units per acre and potential mixed-use retail and residential developments. The proposed build-out plan would allow up to 1,230 residential dwelling units, 290 hotel/casitas, and 960,711 square feet of commercial development. Compared to existing conditions, development of the proposed project at its ultimate potential could result in up to approximately 1,230 dwelling units of additional multi-family attached residential dwelling units and up to approximately 800,000 square feet of additional commercial development.

The City's General Plan was adopted in 2013 and focused on the next 20+ years, through 2035. It is the City's intent to allow the Village area to continue to develop through market forces including demand for additional housing, commercial uses, and professional office space. A 20 year build-out scenario, similar to what was assumed in the General Plan would also apply to the Village area. Figure 2 illustrates the project land use plan.

D. Sensitive Receptors in Project Vicinity

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the SCAQMD defines a sensitive receptor as a land use such as residences, schools, child care centers, athletic facilities, playgrounds, retirement homes and convalescent homes (South Coast Air Quality Management District 2008). Commercial and industrial facilities are not included in the definition because employees do not typically remain on-site for 24 hours.

The nearest sensitive receptors to the project site are the single-family detached residential dwelling units and multi-family attached residential dwelling units located within the project boundary. Other sensitive receptors located within the project boundary include Benjamin Franklin Elementary School, John Adams Elementary School, and La Quinta Community Park. In addition, single-family detached residential dwelling units lie adjacent to the northern, eastern, southern, and western boundaries of the proposed Village Commercial project. Tradition Golf Club and Fritz Burns Park are located adjacent to the southeastern boundary and La Quinta Resort is located adjacent to the northwestern boundary of the proposed project site.

E. Executive Summary of Findings

Construction-Source Emissions

Project construction-source emissions would not exceed applicable regional thresholds of significance established by the SCAQMD. SCAQMD Rule 403.1 requires the project obtain and prepare a Fugitive Dust Control Plan. For localized emissions, the project will not exceed applicable Localized Significance Thresholds (LSTs) established by the SCAQMD.

Project construction-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). As discussed herein, the project will comply with all applicable SCAQMD construction-source emission reduction rules and guidelines. Project construction source emissions would not cause or substantively contribute to violation of the California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS).

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less-than-significant.

Operational-Source Emissions

Operational mitigation measures are listed in Section X of this report. Even with incorporation of mitigation measures 1 through 7, the project's operational-sourced emissions would still exceed applicable regional thresholds of significance established by the SCAQMD, and **regional operational impacts are considered to be significant and unavoidable**. Project operational-source emissions would not result in or cause a significant localized air quality impact as discussed in the Operations-Related Local Air Quality Impacts section of this report. Additionally, project-related traffic will not cause or result in CO concentrations exceeding applicable state and/or federal standards (CO "hotspots"). Project operational-source emissions would therefore not adversely affect sensitive receptors within the vicinity of the project.

Even with incorporation of mitigation measures 1 through 6, **project operational-source emissions exceed regional operational thresholds and would conflict with the Basin Air Quality Management Plan (AQMP). The project's emissions exceed SCAQMD regional thresholds and will result in a significant and unavoidable cumulative impact**. The project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential operational-source odor impacts are therefore considered less-than significant.

As the Project-related GHG emissions exceed SCAQMD thresholds, **GHG emissions are also considered to be significant and unavoidable**. However, as the project's year 2035 mitigated emissions meet the reduction goal of 28 percent from baseline (2005) emissions required per the City of La Quinta's draft GHG Reduction Plan, the Project will not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs.

Figure 1
Project Location Map

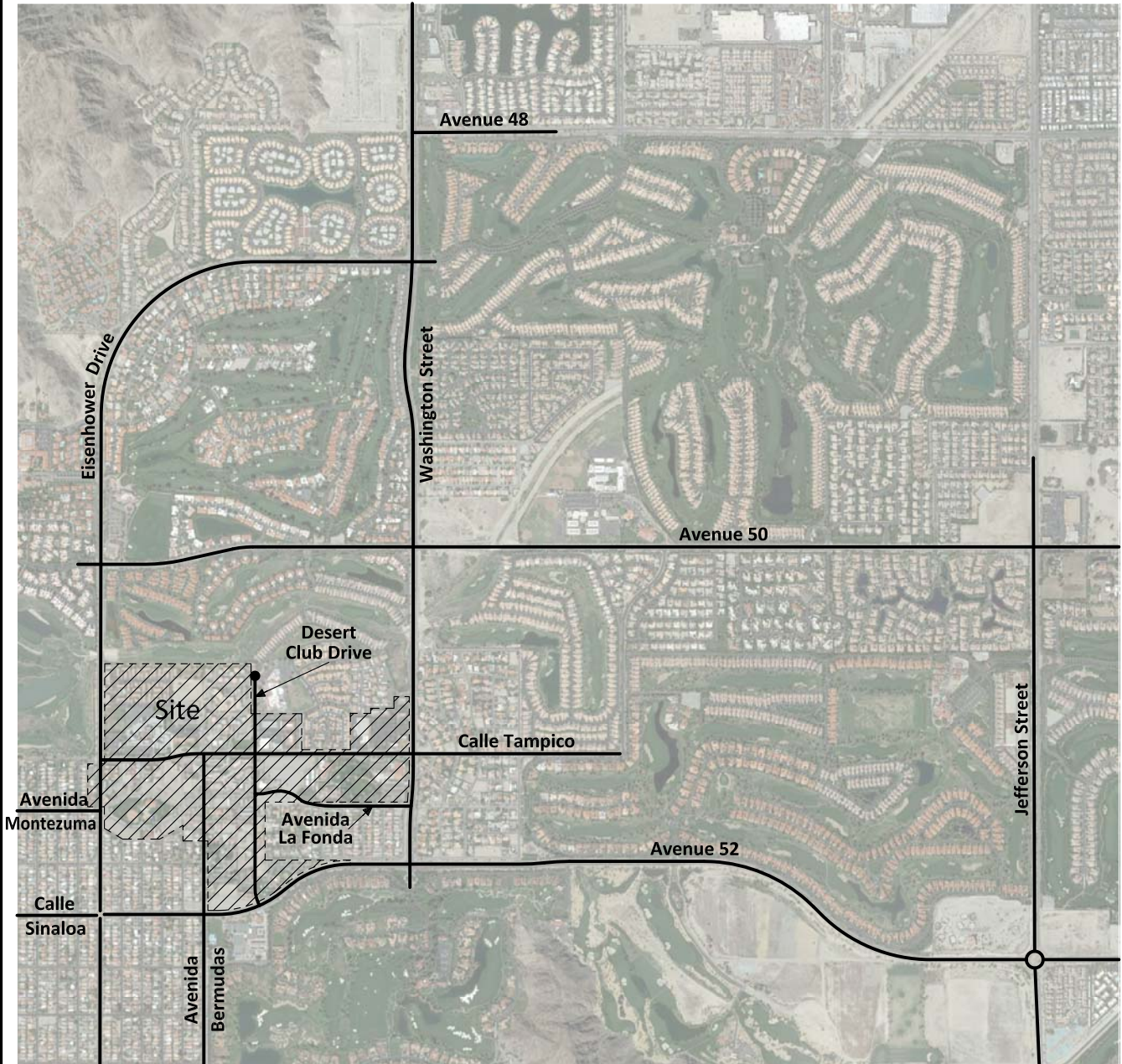
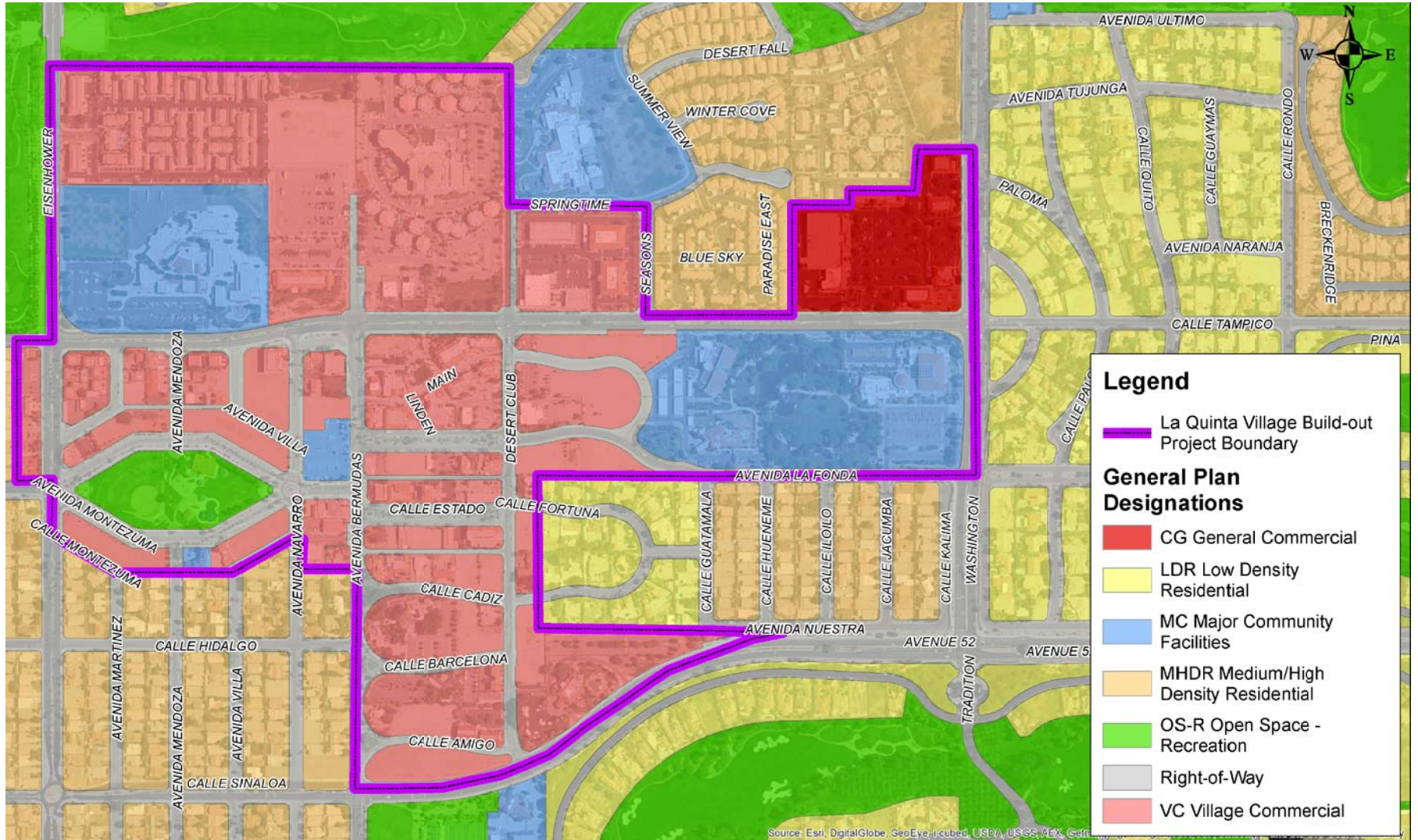


Figure 2
Land Use Plan



II. **ATMOSPHERIC SETTING**

A. **Local Air Quality**

The project is located within the City of La Quinta and is within the Salton Sea Air Basin (SSAB). The middle part of Riverside County (between San Gorgonio Pass and Joshua Tree National Monument), belongs in the Salton Sea Air Basin (SSAB), along with Imperial County. Air quality conditions in this portion of the County, although in the SSAB, are also administered by the SCAQMD. The SCAQMD is responsible for the development of the regional Air Quality Management Plan and efforts to regulate pollutant emissions from a variety of sources.

The SSAB portion of Riverside County is separated from the South Coast Air Basin region by the San Jacinto Mountains and from the Mojave Desert Air Basin to the east by the Little San Bernardino Mountains. During the summer, the SSAB is generally influenced by a Pacific Subtropical High Cell that sits off the coast, inhibiting cloud formation and encouraging daytime solar heating. The SSAB is rarely influenced by cold air masses moving south from Canada and Alaska, as these systems are weak and diffuse by the time they reach the desert. Most desert moisture arrives from infrequent warm, moist and unstable air masses from the south. The SSAB averages between three and seven inches of precipitation per year.

The Coachella Valley is a geographically and meteorologically unique area wholly contained within the Salton Sea Air Basin. The region is currently impacted by significant air pollution levels caused by the transport of pollutants from coastal air basins to the west, primarily ozone, and locally generated PM10. The mountains surrounding the region isolate the Valley from coastal influences and create a hot and dry low lying desert (see Table 1). As the desert heats up it draws cooler coastal air through the narrow San Gorgonio Pass, generating strong and sustained winds that cross the fluvial (water caused) and aeolian (wind) erosion zones in the Valley. These strong winds suspend and transport large quantities of sand and dust, reducing visibility, damaging property, and constituting a significant health threat.

The City of La Quinta, in relation to other areas in Southern California, has good air quality. In the past few decades, however, noticeable deterioration of air quality has occurred due to increased development and population growth, traffic, construction activity, and various site disturbances. It is apparent that although air pollution is emitted from various sources in the Coachella Valley, substantial degradation of air quality may be attributed primarily to sources outside of the Valley.

Table 1

Indio Monthly Climate Data¹

| Descriptor | Month of Year | | | | | | | | | | | |
|--------------------------------|---------------|------|------|------|------|-------|-------|-------|-------|------|------|------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| Avg. Max. Temperature | 71.8 | 75.8 | 81.9 | 88.2 | 95.6 | 103.0 | 107.4 | 106.6 | 101.7 | 92.0 | 77.4 | 71.9 |
| Avg. Min. Temperature | 43.5 | 47.7 | 54.1 | 60.2 | 67.0 | 73.5 | 79.5 | 79.3 | 72.6 | 62.5 | 48.9 | 43.0 |
| Avg. Total Precipitation (in.) | 0.78 | 0.52 | 0.32 | 0.05 | 0.03 | 0.02 | 0.03 | 0.13 | 0.08 | 0.22 | 0.18 | 0.48 |

¹ Source: <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca4259>

*Data taken from the Indio Fire Station (044259)

III. POLLUTANTS

Pollutants are generally classified as either criteria pollutants or non-criteria pollutants. Federal ambient air quality standards have been established for criteria pollutants, whereas no ambient standards have been established for non-criteria pollutants. For some criteria pollutants, separate standards have been set for different periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). A summary of federal and state ambient air quality standards is provided in the Regulatory Framework section.

A. Criteria Pollutants

The criteria pollutants consist of: ozone, nitrogen dioxide, carbon monoxide, sulfur dioxide, lead, and particulate matter. These pollutants can harm your health and the environment, and cause property damage. The Environmental Protection Agency (EPA) calls these pollutants “criteria” air pollutants because it regulates them by developing human health-based and/or environmentally-based criteria for setting permissible levels. The following provides descriptions of each of the criteria pollutants.

1. Nitrogen Dioxide (NO₂)

Nitrogen Oxides (NO_x) is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NO_x are colorless and odorless, concentrations of nitrogen dioxide (NO₂) can often be seen as a reddish-brown layer over many urban areas. NO_x form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NO_x are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NO_x reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as NO₂, which cause respiratory problems. NO_x and the pollutants formed from NO_x can be transported over long distances, following the patterns of prevailing winds. Therefore controlling NO_x is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

2. Ozone (O₃)

Ozone is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NO_x and volatile organic compounds (VOC) in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents as well as natural sources emit NO_x and VOC that help form ozone. Ground-level ozone is the primary constituent of smog. Sunlight and hot weather cause ground-level ozone to form with the greatest concentrations usually occurring downwind from urban areas. Ozone is subsequently considered a regional pollutant. Ground-level ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NO_x and VOC are ozone precursors, the health effects associated with ozone are also indirect health effects associated with significant levels of NO_x and VOC emissions.

3. Carbon Monoxide (CO)

Carbon monoxide (CO) is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. It is a component of motor vehicle exhaust, which contributes about 56 percent of all CO emissions nationwide. In cities, 85 to 95 percent of all CO emissions may come from motor vehicle exhaust. Other sources of CO emissions include industrial processes (such as metals processing and chemical manufacturing), residential wood burning, and natural sources such as forest fires. Woodstoves, gas stoves, cigarette smoke, and unvented gas and kerosene space heaters are indoor sources of CO. The highest levels of CO in the outside air typically occur during the colder months of the year when inversion conditions are more frequent. The air pollution becomes trapped near the ground beneath a layer of warm air. CO is described as having only a local influence because it dissipates quickly. Since CO concentrations are strongly associated with motor vehicle emissions, high CO concentrations generally occur in the immediate vicinity of roadways with high traffic volumes and traffic congestion, active parking lots, and in automobile tunnels. Areas adjacent to heavily traveled and congested intersections are particularly susceptible to high CO concentrations.

CO is a public health concern because it combines readily with hemoglobin and thus reduces the amount of oxygen transported in the bloodstream. The health threat from lower levels of CO is most serious for those who suffer from heart disease such as angina, clogged arteries, or congestive heart failure. For a person with heart disease, a single exposure to CO at low levels may cause chest pain and reduce that person's ability to exercise; repeated exposures may contribute to other cardiovascular effects. High levels of CO can affect even healthy people. People who breathe high levels of CO can develop vision problems, reduced ability to work or learn, reduced manual dexterity, and difficulty performing complex tasks. At extremely high levels, CO is poisonous and can cause death.

4. Sulfur Dioxide (SO₂)

Sulfur Oxide (SO_x) gases (including sulfur dioxide [SO₂]) are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SO_x dissolves easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

5. Lead (Pb)

Lead is a metal found naturally in the environment as well as manufactured products. The major sources of lead emissions have historically been motor vehicles and industrial sources. Due to the phase out of leaded gasoline, metal processing is now the primary source of lead emissions to the air. High levels of lead in the air are typically only found near lead smelters, waste incinerators, utilities, and lead-acid battery manufacturers. Exposure of fetuses, infants and children to low levels of lead can adversely affect the development and function of the central nervous system,

leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

6. Particulate Matter (PM)

Particulate matter (PM) is the term for a mixture of solid particles and liquid droplets found in the air. Particulate matter is made up of a number of components including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. The size of particles is directly linked to their potential for causing health problems. Particles that are less than 10 micrometers in diameter (PM₁₀) are the particles that generally pass through the throat and nose and enter the lungs. Once inhaled, these particles can affect the heart and lungs and cause serious health effects. Particles that are less than 2.5 micrometers in diameter (PM_{2.5}) have been designated as a subset of PM₁₀ due to their increased negative health impacts and its ability to remain suspended in the air longer and travel further.

7. Volatile Organic Compounds (VOCs)

Although not a criteria pollutant, reactive organic gases (ROGs), or VOCs, are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably. Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM₁₀ and lower visibility.

B. Other Pollutants of Concern

1. Toxic Air Contaminants (TACs)

In addition to the above-listed criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. Sources of toxic air contaminants include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least forty different toxic air contaminants. The most important of these toxic air contaminants, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to toxic air contaminants can result from emissions from normal operations as well as from accidental releases. Health effects of toxic air contaminants include cancer, birth defects, neurological damage, and death.

Toxic air contaminants are less pervasive in the urban atmosphere than criteria air pollutants, however they are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. There are hundreds of different types of

toxic air contaminants with varying degrees of toxicity. Sources of toxic air contaminants include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), and motor vehicle exhaust.

According to the 2005 California Almanac of Emissions and Air Quality, the majority of the estimated health risk from toxic air contaminants can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM). Diesel particulate matter is a subset of PM_{2.5} because the size of diesel particles are typically 2.5 microns and smaller. The identification of diesel particulate matter as a toxic air contaminant in 1998 led the California Air Resources Board (CARB) to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles in September 2000. The plan's goals are a 75-percent reduction in diesel particulate matter by 2010 and an 85-percent reduction by 2020 from the 2000 baseline. Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are known as particulate matter or PM, which includes carbon particles or "soot." Diesel exhaust also contains a variety of harmful gases and over 40 other cancer-causing substances. California's identification of diesel particulate matter as a toxic air contaminant was based on its potential to cause cancer, premature deaths, and other health problems. Exposure to diesel particulate matter is a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. Overall, diesel engine emissions are responsible for the majority of California's potential airborne cancer risk from combustion sources.

2. Asbestos

Asbestos is listed as a TAC by the ARB and as a Hazardous Air Pollutant by the EPA. Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. Naturally occurring asbestos is not present in Riverside County. The nearest likely locations of naturally occurring asbestos, as identified in the General Location Guide for Ultramafic Rocks in California prepared by the California Division of Mines and Geology, is located in Santa Barbara County. Due to the distance to the nearest natural occurrences of asbestos, the project site is not likely to contain asbestos.

C. Greenhouse Gases

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases (GHG), play a critical role in the Earth's radiation amount by trapping infrared radiation emitted from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO₂), methane (CH₄), ozone, water vapor, nitrous oxide (N₂O), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable

climate. Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Transportation is responsible for 41 percent of the State's greenhouse gas emissions, followed by electricity generation. Emissions of CO₂ and nitrous oxide (NO_x) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO₂, where CO₂ is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the greenhouse gases and their global warming potential.

1. Water Vapor

Water vapor is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to "hold" more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop." The extent to which this positive feedback loop will continue is unknown as there is also dynamics that put the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually also condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the Earth's surface and heat it up).

2. Carbon Dioxide (CO₂)

The natural production and absorption of CO₂ is achieved through the terrestrial biosphere and the ocean. However, humankind has altered the natural carbon cycle by burning coal, oil, natural gas, and wood. Since the industrial revolution began in the mid 1700s. Each of these activities has increased in scale and distribution. CO₂ was the first GHG demonstrated to be increasing in atmospheric concentration with the first conclusive measurements being made in the last half of the 20th century. Prior to the industrial revolution, concentrations were fairly stable at 280 parts per million (ppm). The International Panel on Climate Change (IPCC) indicates that concentrations were 379 ppm in 2005, an increase of more than 30 percent. Left unchecked, the IPCC projects that concentration of carbon dioxide in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of

anthropogenic sources. This could result in an average global temperature rise of at least two degrees Celsius or 3.6 degrees Fahrenheit.

3. Methane (CH₄)

CH₄ is an extremely effective absorber of radiation, although its atmospheric concentration is less than that of CO₂. Its lifetime in the atmosphere is brief (10 to 12 years), compared to some other GHGs (such as CO₂, N₂O, and Chlorofluorocarbons (CFCs)). CH₄ has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of methane. Other anthropogenic sources include fossil-fuel combustion and biomass burning.

4. Nitrous Oxide (N₂O)

Concentrations of N₂O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration of this GHG was documented at 314 parts per billion (ppb). N₂O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is also commonly used as an aerosol spray propellant, (i.e., in whipped cream bottles, in potato chip bags to keep chips fresh, and in rocket engines and in race cars).

5. Chlorofluorocarbons (CFCs)

CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C₂H₆) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source, but were first synthesized in 1928. It was used for refrigerants, aerosol propellants, and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and in 1989 the European Community agreed to ban CFCs by 2000 and subsequent treaties banned CFCs worldwide by 2010. This effort was extremely successful, and the levels of the major CFCs are now remaining level or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years.

6. Hydrofluorocarbons (HFCs)

HFCs are synthetic man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential. The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF₃), HFC-134a (CF₃CH₂F), and HFC-152a (CH₃CHF₂). Prior to 1990, the only significant emissions were HFC-23. HFC-134a use is increasing due to its use as a

refrigerant. Concentrations of HFC-23 and HFC-134a in the atmosphere are now about 10 parts per trillion (ppt) each. Concentrations of HFC-152a are about 1 ppt. HFCs are manmade for applications such as automobile air conditioners and refrigerants.

7. Perfluorocarbons (PFCs)

PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF₄) and hexafluoroethane (C₂F₆). Concentrations of CF₄ in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

8. Sulfur Hexafluoride (SF₆)

SF₆ is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF₆ has the highest global warming potential of any gas evaluated; 23,900 times that of CO₂. Concentrations in the 1990s were about 4 ppt. Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

9. Aerosols

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel containing sulfur is burned. Black carbon (or soot) is emitted during biomass burning due to the incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

10. Global Warming Potential (GWP)

GHGs have varying global warming potential (GWP). The global warming potential is the potential of a gas or aerosol to trap heat in the atmosphere; it is the cumulative radiative forcing effects of a gas over a specified time horizon resulting from the emission of a unit mass of gas relative to the reference gas, CO₂. One teragram of carbon dioxide equivalent (Tg CO₂e) is essentially the emissions of the gas multiplied by the global warming potential. One teragram is equal to one million metric tons. The carbon dioxide equivalent is a good way to assess emissions because it gives weight to the global warming potential of the gas. A summary of the atmospheric lifetime and the global warming potential of selected gases are summarized in Table 2. As shown in Table 2, the global warming potential of GHGs ranges from 1 to 22,800.

Table 2**Global Warming Potentials and Atmospheric Lifetimes¹**

| Gas | Atmospheric Lifetime | Global Warming Potential ² (100 Year Horizon) |
|---|----------------------|---|
| Carbon Dioxide (CO ₂) | — ³ | 1 |
| Methane (CH ₄) | 12 | 28-36 |
| Nitrous Oxide (NO) | 114 | 298 |
| Hydrofluorocarbons (HFCs) | 1-270 | 12-14,800 |
| Perfluorocarbons (PFCs) | 2,600-50,000 | 7,390-12,200 |
| Nitrogen trifluoride (NF ₃) | 740 | 17,200 |
| Sulfur Hexafluoride (SF ₆) | 3,200 | 22,800 |

¹ Source: <http://www3.epa.gov/climatechange/ghgemissions/gases.html>

² Compared to the same quantity of CO₂ emissions.

³ Carbon dioxide's lifetime is poorly defined because the gas is not destroyed over time, but instead moves among different parts of the ocean-atmosphere-land system. Some of the excess carbon dioxide will be absorbed quickly (for example, by the ocean surface), but some will remain in the atmosphere for thousands of years, due in part to the very slow process by which carbon is transferred to ocean sediments.

IV. AIR QUALITY MANAGEMENT

A. Regulatory Setting

The proposed project is addressed through the efforts of various international, federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policy-making, education, and a variety of programs. The agencies responsible for improving the air quality are discussed below.

1. International

In 1988, the United Nations established the Intergovernmental Panel on Climate Change (IPCC) to evaluate the impacts of global climate change and to develop strategies that nations could implement to curtail global climate change. In 1992, the United States joined other countries around the world in signing the United Nations' Framework Convention on Climate Change (UNFCCC) agreement with the goal of controlling GHG emissions. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs.

Additionally, the Montreal Protocol was originally signed in 1987 and substantially amended in 1990 and 1992. The Montreal Protocol stipulates that the production and consumption of compounds that deplete ozone in the stratosphere—CFCs, halons, carbon tetrachloride, and methyl chloroform—were to be phased out, with the first three by the year 2000 and methyl chloroform by 2005.

2. Federal - United States Environmental Protection Agency

The United States Environmental Protection Agency (EPA) is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for atmospheric pollutants. It regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain locomotives. The National Ambient Air Quality Standards (NAAQS) pollutants were identified using medical evidence and are shown below in Table 3.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The State Implementation Plan (SIP) must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the State Implementation Plan (SIP).

As indicated below in Table 4, the Coachella Valley-portion of the Salton Sea Air Basin has been designated by the EPA as a non-attainment area for ozone (O₃) and suspended particulates (PM₁₀). Currently, the Basin is in attainment with the

ambient air quality standards for carbon monoxide (CO), lead, sulfur dioxide (SO₂), nitrogen dioxide (NO₂), and particulate matter (PM_{2.5}).

On December 14, 2012, the EPA revised the primary annual PM_{2.5} NAAQS from 15 µg/m³ to 12 µg/m³ and retained the 24 hour PM_{2.5} standard at 35 µg/m³ in order to provide increased protection for children, older adults, persons with pre-existing heart and lung disease and other at risk populations.

In *Massachusetts v. Environmental Protection Agency* (Docket No. 05–1120), argued November 29, 2006 and decided April 2, 2007, the U.S. Supreme Court held that not only did the EPA have authority to regulate greenhouse gases, but the EPA's reasons for not regulating this area did not fit the statutory requirements. As such, the U.S. Supreme Court ruled that the EPA should be required to regulate CO₂ and other greenhouse gases as pollutants under the federal Clean Air Act (CAA).

In response to the FY2008 Consolidations Appropriations Act (H.R. 2764; Public Law 110-161), EPA proposed a rule on March 10, 2009 that requires mandatory reporting of GHG emissions from large sources in the United States. On September 22, 2009, the Final Mandatory Reporting of GHG Rule was signed and published in the Federal Register on October 30, 2009. The rule became effective on December 29, 2009. This rule requires suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions to submit annual reports to EPA.

On December 7, 2009, the EPA Administrator signed two distinct findings under section 202(a) of the Clean Air Act. One is an endangerment finding that finds concentrations of the six GHGs in the atmosphere threaten the public health and welfare of current and future generations. The other is a cause or contribute finding, that finds emissions from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare. These actions will not themselves impose any requirements on industry or other entities. However, it is a prerequisite to finalizing the EPA's proposed GHG emission standards for light-duty vehicles, which were jointly proposed by the EPA and Department of Transportation on September 15, 2009.

3. State – California Air Resources Board

The California Air Resources Board (CARB), which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). The California Ambient Air Quality Standards (CAAQS) for criteria pollutants are shown in Table 3. In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g. hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

The Coachella Valley has been designated by the CARB as a non-attainment area for ozone and PM10. Currently, the Coachella Valley is in attainment with the ambient air quality standards for CO, lead, SO₂, NO₂, PM2.5, and sulfates and is unclassified for visibility reducing particles and Hydrogen Sulfide.

On June 20, 2002, the CARB revised the PM10 annual average standard to 20 µg/m³ and established an annual average standard for PM2.5 of 12 µg/m³. These standards were approved by the Office of Administrative Law in June 2003 and are now effective. On September 27, 2007 CARB approved the South Coast Air Basin and the Coachella Valley 2007 Air Quality Management Plan for Attaining the Federal 8-hour Ozone and PM2.5 Standards. The plan projects attainment for the 8-hour Ozone standard by 2024 and the PM2.5 standard by 2015.

On December 12, 2008 the CARB adopted Resolution 08-43, which limits NO_x, PM10 and PM2.5 emissions from on-road diesel truck fleets that operate in California. On October 12, 2009 Executive Order R-09-010 was adopted that codified Resolution 08-43 into Section 2025, title 13 of the California Code of Regulations. This regulation requires that by the year 2023 all commercial diesel trucks that operate in California shall meet model year 2010 (Tier 4) or latter emission standards. In the interim period, this regulation provides annual interim targets for fleet owners to meet. This regulation also provides a few exemptions including a onetime per year 3-day pass for trucks registered outside of California.

The CARB is also responsible for regulations pertaining to toxic air contaminants. The Air Toxics “Hot Spots” Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 as a means to establish a formal air toxics emission inventory risk quantification program. AB 2588, as amended, establishes a process that requires stationary sources to report the type and quantities of certain substances their facilities routinely release into the South Coast Air Basin. The data is ranked by high, intermediate, and low categories, which are determined by: the potency, toxicity, quantity, volume, and proximity of the facility to nearby receptors.

The CARB also proposed interim statewide CEQA thresholds for GHG emissions and released Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act, on October 24, 2008. The State currently has no regulations that establish ambient air quality standards for GHGs. However, the State has passed laws directing CARB to develop actions to reduce GHG emissions, which are listed below.

Assembly Bill 1493

California Assembly Bill 1493 (also known as the Pavley Bill, in reference to its author Fran Pavley) was enacted on July 22, 2002 and required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2004, CARB approved the “Pavley I” regulations limiting the amount of GHGs that may be released from new passenger automobiles that are being phased in between model years 2009 through 2016. This regulation will reduce GHG emissions by 30 percent from 2002 levels by 2016. The second set

of regulations “Pavley II” is currently in development and will be phased in between model years 2017 through 2025 and will reduce emissions by 45 percent by the year 2020. The Pavley II standards are being developed by linking the GHG emissions and formerly separate toxic tailpipe emissions standards previously known as the “LEV III” (third stage of the Low Emission Vehicle standards) into a single regulatory framework.

In 2005, the CARB submitted a “waiver” request to the EPA in order to implement the GHG standards and in March of 2008, the U.S. EPA denied the request. However, in June 2009, the decision was reversed and the U.S. EPA granted California the authority to implement the GHG standards for passenger cars, pickup trucks and sport utility vehicles. In September 2009, the Pavley I regulations were adopted by CARB.

Executive Order S-3-05

The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels
- 2020: Reduce greenhouse gas emissions to 1990 levels
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

The executive order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. To comply with the Executive Order, the secretary of CalEPA created the California Climate Action Team (CAT), made up of members from various state agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of businesses, local governments, and communities and through State incentive and regulatory programs.

Assembly Bill 32

In 2006, the California State Legislature adopted Assembly Bill 32 (AB 32), the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which will be phased in starting in 2012. Emission reductions shall include carbon sequestration projects that would remove carbon from the atmosphere and best management practices that are technologically feasible and cost effective.

On December 6, 2007 CARB released the calculated Year 1990 GHG emissions of 427 million metric tons of CO₂e (MMTCO₂e). The 2020 target of 427 MMTCO₂e requires the reduction of 169 MMTCO₂e, or approximately 30 percent from the State’s projected 2020 business as usual emissions of 596 MMTCO₂e and the reduction of 42 MMTCO₂e, or almost 10 percent from the 2002-2004 average GHG emissions. Under AB 32, CARB was required to adopt regulations by January 1, 2011 to achieve reductions in GHGs to meet the 1990 cap by 2020. Early measures CARB took to lower GHG emissions included requiring operators

of the largest industrial facilities that emit 25,000 metric tons of CO₂ in a calendar year to submit verification of GHG emissions by December 1, 2010. The CARB Board also approved nine discrete early action measures that include regulations affecting landfills, motor vehicle fuels, refrigerants in cars, port operations and other sources that became enforceable on or before January 1, 2010.

On December 11, 2008 the CARB Board approved a Scoping Plan, with final adoption May 11, 2009 that proposed a variety of measures including direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, a market-based cap-and-trade system, and a fee regulation to fund the program. In current pending litigation, *Association of Irrigated Residents v. California Air Resources Board*, a California State trial court found that the analysis of the alternatives identified in the AB 32 Scoping Plan Functional Equivalent Document (FED) was not sufficient for informed decision-making and public review under CEQA. In response, CARB has appealed the decision. In addition, CARB prepared the *Supplement to the AB 32 Scoping Plan Functional Equivalent Document*, June 13, 2011. On August 24, 2011 CARB recertified the complete AB 32 Scoping Plan Functional Equivalent Environmental Document revised by the Final Supplement. In December, 2011 the Final Supplement was accepted as sufficient to fulfill the trial court's March order.

While local government operations were not accounted for in achieving the 2020 emissions reduction, local land use changes are estimated to result in a reduction of 5 metric tons of CO₂e, which is approximately 3 percent of the 2020 GHG emissions reduction goal. In recognition of the critical role local governments will play in successful implementation of AB 32, CARB is recommending GHG reduction goals of 15 percent of 2010 levels by 2020 to ensure that municipal and community-wide emissions match the state's reduction target. According to the Measure Documentation Supplement to the Scoping Plan, local government actions and targets are anticipated to reduce vehicle miles by approximately 2 percent through land use planning, resulting in a potential GHG reduction of 2 metric tons of CO₂e (or approximately 1.2 percent of the GHG reduction target).

In May 2014, CARB released its *First Update to the Climate Change Scoping Plan* (CARB 2014). This *Update* identifies the next steps for California's leadership on climate change. While California continues on its path to meet the near-term 2020 greenhouse gas limit, it must also set a clear path toward long-term, deep GHG emission reductions. This report highlights California's success to date in reducing its GHG emissions and lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050.

Senate Bill 1368

Senate Bill 1368 (SB 1368) is the companion Bill of AB 32 and was adopted September, 2006. SB 1368 requires the California Public Utilities Commission

(CPUC) to establish a performance standard for baseload generation of GHG emissions by investor-owned utilities by February 1, 2007 and for local publicly owned utilities by June 30, 2007. These standards could not exceed the GHG emissions rate from a baseload combined-cycle, natural gas-fired plant. Furthermore, the legislation states that all electricity provided to the State, including imported electricity, must be generated by plants that meet the standards set by California Public Utilities Commission (CPUC) and California Energy Commission (CEC).

Executive Order S-1-07

Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

Senate Bill 97

Senate Bill 97 (SB 97) was adopted August 2007 and acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA. SB 97 directed the Governor's Office of Planning and Research (OPR), which is part of the State Natural Resources Agency, to prepare, develop, and transmit to CARB guidelines for the feasible mitigation of GHG emissions or the effects of

GHG emissions, as required by CEQA, by July 1, 2009. The Natural Resources Agency was required to certify and adopt those guidelines by January 1, 2010.

Pursuant to the requirements of SB 97 as stated above, on December 30, 2009 the Natural Resources Agency adopted amendments to the state CEQA guidelines that address GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporate GHG language throughout the Guidelines. However, no GHG emissions thresholds of significance were provided and no specific mitigation measures were identified. The GHG emission reduction amendments went into effect on March 18, 2010 and are summarized below:

- Climate action plans and other greenhouse gas reduction plans can be used to determine whether a project has significant impacts, based upon its compliance with the plan.
- Local governments are encouraged to quantify the greenhouse gas emissions of proposed projects, noting that they have the freedom to select the models and methodologies that best meet their needs and circumstances. The section also recommends consideration of several qualitative factors that may be used in the determination of significance, such as the extent to which the given project complies with state, regional, or local GHG reduction plans and policies. OPR does not set or dictate specific thresholds of significance. Consistent with existing CEQA Guidelines, OPR encourages local governments to develop and publish their own thresholds of significance for GHG impacts assessment.
- When creating their own thresholds of significance, local governments may consider the thresholds of significance adopted or recommended by other public agencies, or recommended by experts.
- New amendments include guidelines for determining methods to mitigate the effects of greenhouse gas emissions in Appendix F of the CEQA Guidelines.
- OPR is clear to state that “to qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project; general compliance with a plan, by itself, is not mitigation.”
- OPR’s emphasizes the advantages of analyzing GHG impacts on an institutional, programmatic level. OPR therefore approves tiering of environmental analyses and highlights some benefits of such an approach.
- Environmental impact reports (EIRs) must specifically consider a project’s energy use and energy efficiency potential.

Senate Bills 1078, 107, and X1-2 and Executive Orders S-14-08 and S-21-09

Senate Bill 1078 (SB 1078) requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) changed the target date to 2010. Executive Order S-14-08 was signed on November 2008 and expands the State’s Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed CARB to

adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

Senate Bill 375

Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 13 percent below 2005 per capita GHG emissions levels by 2035. On April 4, 2012, SCAG adopted the 2012-2035 Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS), which meets the CARB emission reduction requirements. The Housing Element Update is required by the State to be completed within 18 months after RTP/SCS adoption or by October 2013.

City and County land use policies, including General Plans, are not required to be consistent with the RTP and associated SCS or APS. However, new provisions of CEQA would incentivize, through streamlining and other provisions, qualified projects that are consistent with an approved SCS or APS and categorized as "transit priority projects."

Senate Bill X7-7

Senate Bill X7-7 (SB X7-7), enacted on November 9, 2009, mandates water conservation targets and efficiency improvements for urban and agricultural water suppliers. SB X7-7 requires the Department of Water Resources (DWR) to develop a task force and technical panel to develop alternative best management practices for the water sector. In addition SB X7-7 required the DWR to develop criteria for baseline uses for residential, commercial, and industrial uses for both indoor and landscaped area uses. The DWR was also required to develop targets and regulations that achieve a statewide 20 percent reduction in water usage.

Assembly Bill 939 and Senate Bill 1374

Assembly Bill 939 (AB 939) requires that each jurisdiction in California to divert at least 50 percent of its waste away from landfills, whether through waste

reduction, recycling or other means. Senate Bill 1374 (SB 1374) requires the California Integrated Waste Management Board to adopt a model ordinance by March 1, 2004 suitable for adoption by any local agency to require 50 to 75 percent diversion of construction and demolition of waste materials from landfills.

California Code of Regulations (CCR) Title 24, Part 6

CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008 and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009.

All buildings for which an application for a building permit is submitted on or after January 1, 2014 must follow the 2013 standards. The 2013 commercial standards are estimated to be 30 percent more efficient than the 2008 commercial standards; 2013 residential standards are approximately 25 percent more efficient. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

California Green Building Standards

On January 12, 2010, the State Building Standards Commission unanimously adopted updates to the California Green Building Standards Code, which went into effect on January 1, 2011. The Code is a comprehensive and uniform regulatory code for all residential, commercial and school buildings.

The California Green Building Standards Code does not prevent a local jurisdiction from adopting a more stringent code as state law provides methods for local enhancements. The Code recognizes that many jurisdictions have developed existing construction and demolition ordinances, and defers to them as the ruling guidance provided they provide a minimum 50-percent diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. State building code provides the minimum standard that buildings need to meet in order to be certified for occupancy. Enforcement is generally through the local building official.

CCR Title 24, Part 11: California Green Building Standards (Title 24) became effective in 2001 in response to continued efforts to reduce GHG emissions associated with energy consumption. CCR Title 24, Part 11 now require that new

buildings reduce water consumption, employ building commissioning to increase building system efficiencies, divert construction waste from landfills, and install low pollutant-emitting finish materials. One focus of CCR Title 24, Part 11 is water conservation measures, which reduce GHG emissions by reducing electrical consumption associated with pumping and treating water. CCR Title 24, Part 11 has approximately 52 nonresidential mandatory measures and an additional 130 provisions for optional use. Some key mandatory measures for commercial occupancies include specified parking for clean air vehicles, a 20 percent reduction of potable water use within buildings, a 50 percent construction waste diversion from landfills, use of building finish materials that emit low levels of volatile organic compounds, and commissioning for new, nonresidential buildings over 10,000 square feet.

4. Regional

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the Coachella Valley. To that end, as a regional agency, the SCAQMD works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments and cooperates actively with all federal and state agencies.

South Coast Air Quality Management District

The SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emission sources, and enforces such measures through educational programs or fines, when necessary. The SCAQMD is directly responsible for reducing emissions from stationary, mobile, and indirect sources. It has responded to this requirement by preparing a sequence of AQMPs. A revised draft of the 2012 AQMP was released on September, 2012, was adopted by the SCAQMD Board on December 7, 2012, and was adopted by CARB via Resolution 13-3 on January 25, 2013. The 2012 AQMP was prepared in order to meet the federal Clean Air Act requirement that all 24-hour PM_{2.5} non-attainment areas prepare a SIP, that were required to be submitted to the U.S. EPA by December 14, 2012 and demonstrate attainment with the 24-hour PM_{2.5} standard by 2014. The 2012 AQMP demonstrates attainment of the federal 24-hour PM_{2.5} standard by 2014 in the Basin through adoption of all feasible measures, and therefore, no extension of the attainment date is needed.

The 2007 AQMP demonstrated attainment with the 1997 8-hour ozone (80 ppb) standard by 2023, through implementation of future improvements in control techniques and technologies. These “black box” emissions reductions represent 65 percent of the remaining NO_x emission reductions by 2023 in order to show attainment with the 1997 8-hour ozone NAAQS. Given the magnitude of these needed emissions reductions, additional NO_x control measures have been provided in this AQMP even though the primary purpose of this AQMP is to show compliance with 24-hour PM_{2.5} emissions standards.

The 2012 AQMP is designed to satisfy the California Clean Air Act’s (CCAA) emission reductions of five percent per year or adoption of all feasible measures requirements

and fulfill the EPA's requirement to update transportation conformity emissions budgets based on the latest approved motor vehicle emissions model and planning assumptions. The 2012 AQMP updates and revises the previous 2007 AQMP. The 2012 AQMP was prepared to comply with the Federal and State CCAA and amendments, to accommodate growth, to reduce the high pollutant levels in the Basin, to meet Federal and State ambient air quality standards, and to minimize the fiscal impact that pollution control measures have on the local economy. The purpose of the 2012 AQMP for the Basin is to set forth a comprehensive program that will lead this area into compliance with all federal and state air-quality planning requirements.

The 2012 AQMP builds upon the approaches taken in the 2007 AQMP for the attainment of federal PM and ozone standards, and highlights the significant amount of reductions needed and the need to engage in interagency coordinated planning of mobile sources to meet all of the federal criteria pollutant standards. Compared with the 2007 AQMP, the 2012 AQMP utilizes revised emissions inventory projections that use 2008 as the base year. On-road emissions are calculated using CARB EMFAC2011 emission factors and the transportation activity data provided by SCAG from their 2012 Regional Transportation Plan (2012 RTP). Off-road emissions were updated using CARB's 2011 In-Use Off-Road Fleet Inventory Model. Since the 2007 AQMP was finalized new area source categories such as liquid propane gas (LPG) transmission losses, storage tank and pipeline cleaning and degassing, and architectural colorants, were created and included in the emissions inventories. The 2012 AQMP also includes analysis of several additional sources of GHG emissions such as landfills and could also assist in reaching the GHG target goals in the AB32 Scoping Plan.

The control measures in the 2012 AQMP consist of three components: 1) Basin-wide and episodic short-term PM_{2.5} measures; 2) Section 182(e)(5) implementation measures; and 3) Transportation control measures. Many of the control measures are not based on command and control regulations, but instead focus on incentives, outreach, and education to bring about emissions reductions through voluntary participation and behavioral changes. More broadly, a transition to zero- and near-zero emission technologies is necessary to meet 2023 and 2032 air quality standards and 2050 climate goals. Many of the same technologies will address both air quality and climate needs.

On June 21, 2002, the SCAQMD adopted the 2002 Coachella Valley PM₁₀ State Implementation Plan (CVSIP). The 2002 CVSIP, which included a request for extension of the PM₁₀ deadline and met all applicable federal Clean Air Act requirements, including a Most Stringent Measures analysis, control measures, and attainment demonstration. U.S. EPA approved the 2002 CVSIP on April 18, 2003. At the time of adoption, the AQMD committed to revising with the 2002 CVSIP with the latest approved mobile source emissions estimates, planning assumptions and fugitive dust source emission estimates, when they became available.

The 2003 CVSIP updates those elements of the 2002 CVSIP; the control strategies and control measure commitments have not been revised and remain the same as in the 2002 CVSIP. The 2003 CVSIP contains updated emissions inventories, emission

budgets, and attainment modeling. It requests that U.S. EPA replace the approved transportation conformity budgets in the 2002 CVSIP with those in the 2003 CVSIP. U.S. EPA approved these budgets on March 25, 2004 with an effective date of April 9, 2004.

During construction and operation, the project must comply with applicable rules and regulations. The following are rules the project may be required to comply with, either directly, or indirectly:

SCAQMD Rule 402 prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

SCAQMD Rule 403 governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM₁₀ component). Compliance with these rules would reduce impacts on nearby sensitive receptors. Rule 403 measures may include but are not limited to the following:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least three times daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code section 23114.
- Reduce traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.
- Suspension of all grading activities when wind speeds (including instantaneous wind gusts) exceed 25 mph.

- Bumper strips or similar best management practices shall be provided where vehicles enter and exit the construction site onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Replanting disturbed areas as soon as practical.
- During all construction activities, construction contractors shall sweep on-site and off-site streets if silt is carried to adjacent public thoroughfares, to reduce the amount of particulate matter on public streets. All sweepers shall be compliant with SCAQMD Rule 1186.1, Less Polluting Sweepers.

SCAQMD Rule 403.1 are supplemental to Rule 403 requirements and shall apply only to fugitive dust sources in the Coachella Valley.

(d) General Requirements of 403.1

(1) Any person who is responsible for any active operation, open storage pile, or disturbed surface area, and who seeks an exemption pursuant to Rule 403, paragraph (g)(2) shall be required to determine when wind speed conditions exceed 25 miles per hour. The wind speed determination shall be based on either District forecasts or through use of an on-site anemometer as described in subdivision (g).

(2) Any person involved in active operations in the Coachella Valley Blowsand Zone shall stabilize new man-made deposits of bulk material within 24 hours of making such bulk material deposits. Stabilization procedures shall include one or more of the following: (A) Application of water to at least 70 percent of the surface area of any bulk material deposits at least 3 times for each day that there is evidence of wind driven fugitive dust; or (B) Application of chemical stabilizers in sufficient concentration so as to maintain a stabilized surface for a period of at least 6 months; or

(C) Installation of wind breaks of such design so as to reduce maximum wind gusts to less than 25 miles per hour in the area of the bulk material deposits. (3) Any person involved in active operations in the Coachella Valley Blowsand Zone shall stabilize new deposits of bulk material originating from off-site undisturbed natural desert areas within 72 hours.

Stabilization procedures shall include one or more of the following: (A) Application of water to at least 70 percent of the surface area of any bulk material deposits at least 3 times for each day that there is evidence of wind driven fugitive dust; or (B) Application of chemical stabilizers in sufficient concentration so as to maintain a stabilized surface for a period of at least six months.

(4) A person who conducts or authorizes the conducting of an active operation shall implement at least one of the control actions specified in Rule 403, Table 2 for the source category "Inactive Disturbed Surface Areas" to minimize wind driven fugitive dust from disturbed surface areas at such time when active operations have ceased for a period of at least 20 days.

(5) Any person involved in agricultural tilling or soil mulching activities shall cease such activities when wind speeds exceed 25 miles per hour. The wind speed

determination shall be based on either District forecasts or through use of an on-site anemometer as described in subdivision (g).

(e) Fugitive Dust Control Plan and Other Requirements for Construction Projects/Earth-Moving Activities

(1) Any person who conducts or authorizes the conducting of an active operation with a disturbed surface area of more than 5,000 square feet shall not initiate any earth-moving activities unless a fugitive dust control plan is prepared and approved by the Executive Officer in accordance with the requirements of subdivision (f) and the Rule 403.1 Implementation Handbook. These provisions shall not apply to active operations exempted by paragraph (i)(4).

(2) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) shall maintain a complete copy of the approved fugitive dust control plan on-site in a conspicuous place at all times and the fugitive dust control plan must be provided upon request.

(3) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) shall install and maintain signage with project contact information that meets the minimum standards of the Rule 403.1 Implementation Handbook prior to initiating any type of earth-moving activities.

(4) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) for a project with a disturbed surface area of 50 or more acres shall have an Dust Control Supervisor that: (A) is employed by or contracted with the property owner or developer; and (B) is on-site or is available to be on-site within 30 minutes of initial contact; and (C) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 and 403.1 requirements; and (D) has completed the AQMD Coachella Valley Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class.

(5) Failure to comply with any of the provisions of an approved fugitive dust control plan shall be a violation of this rule.

SCAQMD Rule 445 prohibits permanently installed wood burning devices into any new development. A wood burning device means any fireplace, wood burning heater, or pellet-fueled wood heater, or any similarly enclosed, permanently installed, indoor or outdoor device burning any solid fuel for aesthetic or space-heating purposes, which has a heat input of less than one million British thermal units per hour.

SCAQMD Rule 481 applies to all spray painting and spray coating operations and equipment. The rule states that a person shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:

- (1) The spray coating equipment is operated inside a control enclosure, which is approved by the Executive Officer. Any control enclosure for which an application for permit for new construction, alteration, or change of ownership

or location is submitted after the date of adoption of this rule shall be exhausted only through filters at a design face velocity not less than 100 feet per minute nor greater than 300 feet per minute, or through a water wash system designed to be equally effective for the purpose of air pollution control.

- (2) Coatings are applied with high-volume low-pressure, electrostatic and/or airless spray equipment.
- (3) An alternative method of coating application or control is used which has effectiveness equal to or greater than the equipment specified in the rule.

SCAQMD Rule 1108 governs the sale, use, and manufacturing of asphalt and limits the volatile organic compound (VOC) content in asphalt used in the South Coast Air Basin. This rule would regulate the VOC content of asphalt used during construction. Therefore, all asphalt used during construction of the project must comply with SCAQMD Rule 1108.

SCAQMD Rule 1113 governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction. Therefore, all paints and solvents used during construction and operation of the project must comply with SCAQMD Rule 1113.

SCAQMD Rule 1143 governs the manufacture, sale, and use of paint thinners and solvents used in thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations by limiting their VOC content. This rule regulates the VOC content of solvents used during construction. Solvents used during the construction phase must comply with this rule.

SCAQMD Rule 1186 limits the presence of fugitive dust on paved and unpaved roads and sets certification protocols and requirements for street sweepers that are under contract to provide sweeping services to any federal, state, county, agency or special district such as water, air, sanitation, transit, or school district.

SCAQMD Rule 1303 governs the permitting of re-located or new major emission sources, requiring Best Available Control Measures and setting significance limits for PM₁₀ among other pollutants.

SCAQMD Rule 1401, New Source Review of Toxic Air Contaminants, specifies limits for maximum individual cancer risk, cancer burden, and non-cancer acute and chronic hazard index from new permit units, relocations, or modifications to existing permit units, which emit toxic air contaminants.

SCAQMD Rule 2202, On-Road Motor Vehicle Mitigation Options, is to provide employers with a menu of options to reduce mobile source emissions generated from employee commutes, to comply with federal and state Clean Air Act requirements, Health & Safety Code Section 40458, and Section 182(d)(1)(B) of the federal Clean Air Act. It applies to any employer who employs 250 or more employees on a full or part-

time basis at a worksite for a consecutive six-month period calculated as a monthly average.

In order to assist local agencies with direction on GHG emissions, the SCAQMD organized a working group and adopted Rules 2700, 2701, 2702, and 3002 which are described below.

Rules 2700 and 2701

The SCAQMD adopted Rules 2700 and 2701 on December 5, 2008, which establishes the administrative structure for a voluntary program designed to quantify GHG emission reductions. Rule 2701 provides specific protocols for private parties to follow to generate certified GHG emission reductions for projects within the district. Approved protocols include forest projects, urban tree planting, and manure management. The SCAQMD is currently developing additional protocols for other reduction measures. For a GHG emission reduction project to qualify, it must be verified and certified by the SCAQMD Executive Officer, who has 60 days to approve or deny the Plan. Upon approval of the Plan, the Executive Officer issues required to issue a certified receipt of the GHG emission reductions within 90 days.

Rule 2702

The SCAQMD adopted Rule 2702 on February 6, 2009, which establishes a voluntary air quality investment program from which SCAQMD can collect funds from parties that desire certified GHG emission reductions, pool those funds, and use them to purchase or fund GHG emission reduction projects within two years, unless extended by the Governing Board. Priority will be given to projects that result in co-benefit emission reductions of GHG emissions and criteria or toxic air pollutants within environmental justice areas. Further, this voluntary program may compete with the cap-and-trade program identified for implementation in CARB's Scoping Plan, or a Federal cap and trade program.

Rule 3002

The SCAQMD amended Rule 3002 on November 5, 2010 to include facilities that emit greater than 100,000 tons per year of CO₂e are required to apply for a Title V permit by July 1, 2011. A Title V permit is for facilities that are considered major sources of emissions.

Although the SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate air quality issues associated with plans and new development projects throughout the South Coast Air Basin. Instead, this is controlled through local jurisdictions in accordance to the California Environmental Quality Act (CEQA). In order to assist local jurisdictions with air quality compliance issues the CEQA Air Quality Handbook (SCAQMD CEQA Handbook), prepared by the SCAQMD, 1993, with the most current updates found at <http://www.aqmd.gov/ceqa/hdbk.html>, was developed in accordance with the projections and programs of the AQMP. The purpose of the SCAQMD CEQA Handbook is to assist Lead Agencies, as well as consultants, project proponents, and other interested parties in evaluating a proposed project's potential air quality impacts. Specifically, the SCAQMD CEQA Handbook explains the procedures that the

SCAQMD recommends be followed for the environmental review process required by CEQA. The SCAQMD CEQA Handbook provides direction on how to evaluate potential air quality impacts, how to determine whether these impacts are significant, and how to mitigate these impacts. The SCAQMD intends that by providing this guidance, the air quality impacts of plans and development proposals will be analyzed accurately and consistently throughout the South Coast Air Basin, and adverse impacts will be minimized.

In order to assist local agencies with direction on GHG emissions, the SCAQMD organized a working group and adopted Rules 2700, 2701, 2702, and 3002 which are described below.

SCAQMD Working Group

Since neither CARB nor the OPR has developed GHG emissions threshold, the SCAQMD formed a Working Group to develop significance thresholds related to GHG emissions. At the September 28, 2010 Working Group meeting, the SCAQMD released its most current version of the draft GHG emissions thresholds, which recommends a tiered approach that provides a quantitative annual thresholds of 10,000 MTCO_{2e} for industrial uses.

Rules 2700 and 2701

The SCAQMD adopted Rules 2700 and 2701 on December 5, 2008, which establishes the administrative structure for a voluntary program designed to quantify GHG emission reductions. Rule 2700 establishes definitions for the various terms used in Regulation XXVII – Global Climate Change. Rule 2701 provides specific protocols for private parties to follow to generate certified GHG emission reductions for projects within the district. Approved protocols include forest projects, urban tree planting, and manure management. The SCAQMD is currently developing additional protocols for other reduction measures. For a GHG emission reduction project to qualify, it must be verified and certified by the SCAQMD Executive Officer, who has 60 days to approve or deny the Plan to reduce GHG emissions. Upon approval of the Plan, the Executive Officer issues required to issue a certified receipt of the GHG emission reductions within 90 days.

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Southern California Association of Governments

The SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the Federally designated MPO for the majority of the southern California region and is the largest MPO in the nation. With respect to air quality planning, SCAG has prepared the Regional Transportation Plan and Regional Transportation Improvement Plan (RTIP), which addresses regional development and growth forecasts. These plans form the basis for the land use and transportation components of the AQMP, which are utilized in the preparation of air quality forecasts and in the consistency analysis included in the AQMP. The Regional Transportation Plan, Regional Transportation Improvement Plan, and AQMP are based on projections originating within the City and County General Plans.

5. Local - City of La Quinta

Local jurisdictions, such as the City of La Quinta, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the City is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The City is also responsible for the implementation of transportation control measures as outlined in the 2007 and 2012 AQMP. Examples of such measures include bus turnouts, energy-efficient streetlights, and synchronized traffic signals. In accordance with CEQA requirements and the CEQA review process, the City assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts

by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

In accordance with the CEQA requirements, the City does not, however, have the expertise to develop plans, programs, procedures, and methodologies to ensure that air quality within the City and region will meet Federal and State standards. Instead, the County relies on the expertise of the SCAQMD and utilizes the SCAQMD CEQA Handbook as the guidance document for the environmental review of plans and development proposals within its jurisdiction.

The City of La Quinta's 2035 General Plan contains the following air quality goals, policies, and programs that are applicable to the proposed project:

GOAL AQ-1

A reduction in all air emissions generated within the City.

Policy AQ-1.1

Coordinate with the South Coast Air Quality Management District to assure compliance with air quality standards.

Program AQ-1.1a: Participate in monitoring, managing, and enforcing SCAQMD rules for criteria pollutants, TACs, GHGs and all other regional air pollutants of concern.

Policy AQ-1.2

Work to reduce emissions from residential and commercial energy use by encouraging decreased consumption and increased efficiency.

Policy AQ-1.3

Work to reduce emissions from mobile sources by encouraging a decrease in the number of vehicle trips and vehicle miles traveled.

Program AQ-1.3e: Expand pedestrian and bicycle routes and provide safe and convenient access to retail, recreational, and community centers.

Program AQ-1.3f: Facilitate mixed use development concepts in specific identified areas of the community to allow the combination of residential and non-residential uses, such as live-work-shop designs, as described in the Land Use Element.

Program AQ-1.3g: Where permitted by the Land Use Plan, and where appropriate, encourage high density residential development within walking distance to commercial, educational, and recreational opportunities.

Policy AQ-1.4

Protect people and sites that are especially sensitive to airborne pollutants (sensitive receptors) from polluting point sources.

Policy AQ-1.5

Ensure all construction activities minimize emissions of all air quality pollutants.

Program AQ-1.5a: All grading and ground disturbance activities shall adhere to established fugitive dust criteria.

Program AQ-1.5b: Fugitive Dust Control Plans shall be reviewed and approved for development projects.

Policy AQ-1.6

Proposed development air quality emissions of criteria pollutants shall be analyzed under CEQA.

Policy AQ-1.7

Greenhouse gas emissions associated with a development project shall demonstrate adherence to the City's GHG Reduction Plan.

Related Goals, Policies, and Programs:

Goal SC-1

A community that provides the best possible quality of life for all its residents.

Policy SC-1.4

Reduce Greenhouse Gas emissions at a minimum consistent with the Greenhouse Gas Reduction Plan.

Program SC-1.4a: Require all new development proposals to demonstrate consistency with the Greenhouse Gas Reduction Plan.

B. Monitored Air Quality

The air quality at any site is dependent on the regional air quality and local pollutant sources. Regional air quality is determined by the release of pollutants throughout the air basin. Estimates of the existing emissions in the Basin provided in the Final 2012 Air Quality Management Plan, prepared by SCAQMD, December 2012, indicate that collectively, mobile sources account for 59 percent of the VOC, 88 percent of the NO_x emissions and 40 percent of directly emitted PM_{2.5}, with another 10 percent of PM_{2.5} from road dust.

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation

from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in Table 4.

The local air quality can be evaluated by reviewing relevant air pollution concentrations near the project area. For evaluation purposes, the SCAQMD has divided the District into 36 Source Receptor Areas (SRAs), operating monitoring stations in most of the areas. These SRAs are designated to provide a general representation of the local meteorological, terrain, and air quality conditions within the particular geographical area. The project is within Source Receptor Area 30. SCAQMD operates two air monitoring stations in SRA 30, one in Indio, California, approximately 5.21 miles northeast of the project site (Indio Station) and the other in Palm Springs, California, approximately 18.45 miles northwest of the project site (Palm Springs Station).

Table 5 summarizes 2012 through 2014 published monitoring data, which is the most recent 3-year period available. The data shows that during the past few years, the project area has exceeded the ozone and PM10 standards. However, it should be noted that due to the air monitoring station distance from the project site, recorded air pollution levels at the air monitoring station reflect with varying degrees of accuracy, local air quality conditions at the project site.

Ozone

During the 2012 to 2014 monitoring period, the State 1-hour concentration standard for ozone has been exceeded two days each year at the Indio Station. The State 8-hour ozone standard has been exceeded between 30 and 45 days each year over the past three years at the Indio Station. The Federal 8-hour ozone standard was exceeded between 10 and 24 days each year over the past three years at the Indio Station.

Ozone is a secondary pollutant as it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and NO₂, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of the SCAQMD contribute to the ozone levels experienced at the monitoring station, with the more significant areas being those directly upwind.

Carbon Monoxide

CO is another important pollutant that is due mainly to motor vehicles. The Palm Springs Station did not record an exceedance of the state or federal 1-hour or 8-hour CO standards for the last three years.

Nitrogen Dioxide

The Palm Springs Station did not record an exceedance of the State or Federal NO₂ standards for the last three years.

Particulate Matter

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM10 and PM2.5. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise. The Indio Station did not record an exceedance of the Federal PM2.5 standards during the most recent three year period.

The Indio Station did record exceedances of the federal PM10 standards between two and six days during the most recent three year period; as well as the State PM10 standards which were exceeded between seven and 15 days during the same three year period.

Table 3

State and Federal Criteria Pollutant Standards¹

| Air Pollutant | Concentration / Averaging Time | | Most Relevant Effects |
|---|---|---|--|
| | California Standards | Federal Primary Standards | |
| Ozone (O ₃) | 0.09 ppm/1-hour 0.07 ppm/8-hour | 0.075 ppm/8-hour | (a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage. |
| Carbon Monoxide (CO) | 20.0 ppm/1-hour 9.0 ppm/8-hour | 35.0 ppm/1-hour 9.0 ppm/8-hour | (a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses. |
| Nitrogen Dioxide (NO ₂) | 0.18 ppm/1-hour 0.03 ppm/annual | 100 ppb/1-hour 0.053 ppm/annual | (a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration. |
| Sulfur Dioxide (SO ₂) | 0.25 ppm/1-hour 0.04 ppm/24-hour | 75 ppb/1-hour 0.14 ppm/24-hour | (a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma. |
| Suspended Particulate Matter (PM ₁₀) | 50 µg/m ³ /24-hour 20 µg/m ³ /annual | 150 µg/m ³ /24-hour | (a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly. |
| Suspended Particulate Matter (PM _{2.5}) | 12 µg/m ³ / annual | 35 µg/m ³ /24-hour 12 µg/m ³ /annual | |
| Sulfates | 25 µg/m ³ /24-hour | No Federal Standards | (a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage. |
| Lead | 1.5 µg/m ³ /30-day | 0.15 µg/m ³ /3-month rolling | (a) Learning disabilities; (b) Impairment of blood formation and nerve conduction. |
| Visibility Reducing Particles | Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent. | No Federal Standards | Visibility impairment on days when relative humidity is less than 70 percent. |

¹ Source: <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf> .

Table 4

Salton Sea Air Basin Attainment Status

| Pollutant | State Status ¹ | National Status ² |
|------------------|---------------------------|------------------------------|
| Ozone | Nonattainment | Nonattainment |
| Carbon monoxide | Attainment | Attainment |
| Nitrogen dioxide | Attainment | Unclassified/Attainment |
| Sulfur dioxide | Attainment | Attainment |
| PM10 | Nonattainment | Nonattainment |
| PM2.5 | Attainment | Nonattainment |

¹ Source of State status: California Air Resources Board 2013.

² Source of National status: U.S. Environmental Protection Agency 2012

Table 5

Air Quality Monitoring Summary¹

| Pollutant (Standard) ² | Year | | |
|--|-----------|-----------|-----------|
| | 2012 | 2013 | 2014 |
| Ozone: | | | |
| Maximum 1-Hour Concentration (ppm) | 0.102 | 0.105 | 0.095 |
| Days > CAAQS (0.09 ppm) | 2 | 2 | 2 |
| Maximum 8-Hour Concentration (ppm) | 0.090 | 0.087 | 0.091 |
| Days > NAAQS (0.08 ppm) | 24 | 18 | 10 |
| Days > CAAQS (0.070 ppm) | 45 | 38 | 30 |
| Carbon Monoxide:³ | | | |
| Maximum 8-Hour Concentration (ppm) | 0.45 | * | * |
| Days > CAAQS (9 ppm) | 0 | 0 | 0 |
| Days > NAAQS (9 ppm) | 0 | 0 | 0 |
| Nitrogen Dioxide:³ | | | |
| Annual Average (ppm) | 0.007 | 0.007 | * |
| 1-Hour 98th Percentile | 0.0393 | 0.0388 | 0.0412 |
| Maximum 1-Hour Concentration (ppm) | 0.045 | 0.052 | 0.046 |
| Days > CAAQS (0.18 ppm) | 0 | 0 | 0 |
| Inhalable Particulates (PM10): | | | |
| Maximum 24-Hour Concentration (µg/m ³) | 270.6 | 255.2 | 322.3 |
| Days > NAAQS (150 µg/m ³) | 2 | 3 | 6 |
| Days > CAAQS (50 µg/m ³) | 7 | 14 | 15 |
| Annual Average (µg/m ³) | 33.6 | 37.5 | 43.5 |
| Ultra-Fine Particulates (PM2.5): | | | |
| Maximum 24-Hour Concentration (µg/m ³) | 18.4 | 25.8 | 26.5 |
| Days > NAAQS (35 µg/m ³) | 0 | 0 | 0 |
| Annual Average (µg/m ³) | 7.6 | 8.3 | 8.3 |

¹ Source: <http://www.arb.ca.gov/adam/topfour/topfour1.php>

Data from Indio Jackson St monitoring station unless noted.

² CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million

³ Data from Palm Springs station

V. AIR QUALITY STANDARDS

A. Regional Air Quality

Many air quality impacts that derive from dispersed mobile sources, which are the dominate pollution generators in the basin, often occurs hours later and miles away after photochemical processes have converted primary exhaust pollutants into secondary contaminants such as ozone. The incremental regional air quality impact of an individual project is generally very small and difficult to measure. Therefore, the SCAQMD has developed significance thresholds based on the volume of pollution emitted rather than on actual ambient air quality because the direct air quality impact of a project is not quantifiable on a regional scale. The SCAQMD CEQA Handbook states that any project in the South Coast Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes to this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in Table 6.

B. Local Air Quality

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significant Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significant Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significant Threshold Methodology found that the primary emissions of concern are NO₂, CO, PM₁₀, and PM_{2.5}.

The significance thresholds for the local emissions of NO₂ and CO are determined by subtracting the highest background concentration from the last three years of these pollutants from Table 5 above, from the most restrictive ambient air quality standards for these pollutants that are outlined in the Localized Significant Thresholds. Table 6 shows the ambient air quality standards for NO₂, CO, and PM₁₀ and PM_{2.5}.

C. Toxic Air Contaminants

According to the SCAQMD CEQA Handbook, any project that has the potential to expose the public to toxic air contaminants in excess of the following thresholds would be considered to have a significant air quality impact:

- If the Maximum Incremental Cancer Risk is 10 in one million or greater; or
- Toxic air contaminants from the proposed project would result in a Hazard Index increase of 1 or greater.

In order to determine if the proposed project may have a significant impact related to hazardous air pollutants (HAP), the Health Risk Assessment Guidance for analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, (Diesel Analysis), prepared by SCAQMD, August 2003, recommends that if the proposed project is anticipated to create hazardous air pollutants through stationary sources or regular operations of diesel trucks on the project site, then the proximity of the nearest receptors to the source of the hazardous air pollutants and the toxicity of the hazardous air pollutants should be analyzed through a comprehensive facility-wide health risk assessment (HRA). This project proposes specialty retail and residential uses, and would not be a significant source of stationary or mobile-source TACs.

D. Odor Impacts

The SCAQMD CEQA Handbook states that an odor impact would occur if the proposed project creates an odor nuisance pursuant to SCAQMD Rule 402, which states:

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

If the proposed project results in a violation of Rule 402 with regards to odor impacts, then the proposed project would create a significant odor impact.

E. Greenhouse Gases

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

1. The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;
2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;
3. The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions¹.

The City of La Quinta adopted the City of La Quinta Greenhouse Gas Reduction Plan in July 2012. The City's Greenhouse Gas Reduction Plan sets forth reduction targets consistent

¹ The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

with AB 32 and aims to reduce CO₂e emissions to 10 percent below 2005 levels by 2020 and 28 percent below 2005 levels by 2035. The City's reduction target includes the achievement of 1990 level emissions by 2020, and 80% below 1990 levels by 2050. In addition, the City's 2035 General Plan has a Livable Community Element, which was created in order to help the City build a more cohesive community through the conservation of its natural resources.

The project is within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

SCAQMD Regulation XXVII, Climate Change. SCAQMD Regulation XXVII currently includes three rules:

- The purpose of Rule 2700 is to define terms and post global warming potentials.
- The purpose of Rule 2701, SoCal Climate Solutions Exchange, is to establish a voluntary program to encourage, quantify, and certify voluntary, high quality certified greenhouse gas emission reductions in the SCAQMD.
- Rule 2702, Greenhouse Gas Reduction Program, was adopted on February 6, 2009. The purpose of this rule is to create a Greenhouse Gas Reduction Program for greenhouse gas emission reductions in the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

A variety of agencies have developed greenhouse gas emission thresholds and/or have made recommendations for how to identify a threshold. However, the thresholds for projects in the jurisdiction of the SCAQMD remain in flux. The California Air Pollution Control Officers Association explored a variety of threshold approaches, but did not recommend one approach (2008). The ARB recommended approaches for setting interim significance thresholds (California Air Resources Board 2008b), in which a draft industrial project threshold suggests that non-transportation related emissions under 7,000 MTCO₂e per year would be less than significant; however, the ARB has not approved those thresholds and has not published anything since then. The Bay Area Air Quality Management District and the San Joaquin Valley Air Pollution Control District have both developed greenhouse gas thresholds. However, those thresholds are not applicable to the project since the project is under the jurisdiction of the SCAQMD. The SCAQMD is in the process of developing thresholds, as discussed below.

SCAQMD Threshold Development. On December 5, 2008, the SCAQMD Governing Board adopted an interim greenhouse gas significance threshold for stationary sources, rules, and plans where the SCAQMD is lead agency (SCAQMD permit threshold). The SCAQMD permit threshold consists of five tiers. However, the SCAQMD is not the lead agency for this project. Therefore, the five permit threshold tiers do not apply to the proposed project.

The SCAQMD is in the process of preparing recommended significance thresholds for greenhouse gases for local lead agency consideration ("SCAQMD draft local agency threshold"); however, the SCAQMD Board has not approved the thresholds as of the date of the Notice of Preparation. The current draft thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:
 - All land use types: 3,000 MTCO₂e per year
 - Based on land use type: residential: 3,500 MTCO₂e per year; commercial: 1,400 MTCO₂e per year; or mixed use: 3,000 MTCO₂e per year.
- Tier 4 has the following options:
 - Option 1: Reduce emissions from business as usual (BAU) by a certain percentage; this percentage is currently undefined.
 - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
 - Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO₂e/SP/year for projects and 6.6 MTCO₂e/SP/year for plans;
 - Option 3, 2035 target: 3.0 MTCO₂e/SP/year for projects and 4.1 MTCO₂e/SP/year for plans
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate.

To determine whether the project is significant for GHG emissions, this analysis initially uses the SCAQMD draft local agency tier 3 threshold of 3,000 MTCO₂e per year for all land use types and then the SCAQMD 2035 target: 3.0 MTCO₂e/SP/year for projects tier 4 threshold.

The City of La Quinta Draft Greenhouse Gas Reduction Plan is the applicable plan adopted by the City for the purpose of reducing the emissions of GHGs. To determine if the project's GHG emissions will conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs, the project's year 2035 mitigated emissions will be compared to the project's baseline (2005) GHG emissions to ensure that the project's year 2035 emissions are 28 percent below 2005 levels by 2035.

The project will also be subject to the requirements of the California Green Building Code and 2013 Title 24 Building Energy Efficiency Standards which would reduce project-related greenhouse gas emissions.

Table 6

SCAQMD Air Quality Significance Thresholds for Coachella Valley^{1,2}

| Mass Daily Thresholds | | |
|---|--|------------------------|
| Pollutant | Construction (lbs/day) | Operation (lbs/day) |
| NOx | 100 | 100 |
| VOC | 75 | 75 |
| PM10 | 150 | 150 |
| PM2.5 | 55 | 55 |
| SOx | 150 | 150 |
| CO | 550 | 550 |
| Lead | 3 | 3 |
| Toxic Air Contaminants, Odor and GHG Thresholds | | |
| TACs | Maximum Incremental Cancer Risk \geq 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas \geq 1 in 1 million) Chronic & Acute Hazard Index > 1.0 (project increment) | |
| Odor | Project creates an odor nuisance pursuant to SCAQMD Rule 402 | |
| GHG | 3,000 MT/yr CO ₂ e for all land uses. | |
| Ambient Air Quality Standards | | |
| Pollutant | SCAQMD Standards | |
| NO ₂ -1-hour average | 0.18 ppm (338 $\mu\text{g}/\text{m}^3$) | |
| PM10 -24-hour average | 10.4 $\mu\text{g}/\text{m}^3$ | |
| Construction | 10.4 $\mu\text{g}/\text{m}^3$ | |
| Operations | 2.5 $\mu\text{g}/\text{m}^3$ | |
| PM2.5 -24-hour average | 10.4 $\mu\text{g}/\text{m}^3$ | |
| Construction | 10.4 $\mu\text{g}/\text{m}^3$ | |
| Operations | 2.5 $\mu\text{g}/\text{m}^3$ | |
| SO ₂ | 0.25 ppm | |
| 1-hour average | 0.25 ppm | |
| 24-hour average | 0.04 ppm | |
| CO | 20 ppm (23,000 $\mu\text{g}/\text{m}^3$) | |
| 1-hour average | 20 ppm (23,000 $\mu\text{g}/\text{m}^3$) | |
| 8-hour average | 9 ppm (10,000 $\mu\text{g}/\text{m}^3$) | |
| Lead | 1.5 $\mu\text{g}/\text{m}^3$ | |
| 30-day average | 1.5 $\mu\text{g}/\text{m}^3$ | |
| Rolling 3-month average | 0.15 $\mu\text{g}/\text{m}^3$ | |
| Quarterly average | 1.5 $\mu\text{g}/\text{m}^3$ | |

¹ Source: <http://www.aqmd.gov/ceqa/handbook/signthres.pdf>

² Construction thresholds apply to both the South Coast Air Basin and Coachella Valley. For Coachella Valley, the mass daily thresholds for operation are the same as the construction thresholds

VI. SHORT-TERM CONSTRUCTION IMPACTS

Construction activities associated with the proposed project would have the potential to generate air emissions, toxic air contaminant emissions, and odor impacts. Assumptions for the duration, for the construction of the proposed project were obtained from the project applicant. The construction activities for the proposed project are anticipated to include: site demolition of approximately 511,456 square feet, grading of approximately 50.94 acres, building construction of 1,230 multi-family attached residential dwelling units and 800,000 square feet of specialty retail uses, paving of approximately 2.55 acres (approximately five percent of the total site acreage) for on-site roadways and parking, and application of architectural coatings. The proposed project is anticipated to start construction no sooner than Spring 2017 and be completed in the beginning of 2035.

A. Construction-Related Regional Impacts

The construction-related regional air quality impacts have been analyzed for both criteria pollutants and GHGs.

1. Construction-Related Criteria Pollutants Analysis

The following provides a discussion of the methodology used to calculate regional construction air emissions and an analysis of the proposed project's short-term construction emissions for the criteria pollutants.

Methodology

Typical emission rates from construction activities were obtained from CalEEMod Version 2013.2.2 CalEEMod is a computer model published by the SCAQMD for estimating air pollutant emissions. The CalEEMod program uses the EMFAC2011 computer program to calculate the emission rates specific for the eastern portion of Riverside County for construction-related employee vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy truck operations. EMFAC2011 and OFFROAD2011 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour. Using CalEEMod, the peak daily air pollutant emissions during each phase was calculated and presented below. These emissions represent the highest level of emissions for each of the construction phases in terms of air pollutant emissions. The construction emissions printouts from CalEEMod are provided in Appendix B.

SCAQMD's Rule 403 and 403.1

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rules 403 and 403.1 establish these procedures. Compliance with these rules is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of

construction activity when winds exceed 25 mph and establishing a permanent and stabilizing ground cover on finished sites.

In addition, any operator applying for a grading permit, or a building permit for an activity with a disturbed surface area of more than 5,000 square feet, shall not initiate any earth-moving operations unless a Fugitive Dust Control Plan has been prepared pursuant to the provisions of the Coachella Valley Fugitive Dust Control Handbook and approved by the City. It is anticipated that this project will obtain and prepare the required Fugitive Dust Control Plan.

SCAQMD's Rule 403 and 403.1 minimum requirements require that the application of the best available dust control measures are used for all grading operations and include the application of water or other soil stabilizers in sufficient quantity to prevent the generation of visible dust plumes. Compliance with Rules 403 and 403.1 would require the use of water trucks during all phases where earth moving operations would occur.

The phases of the construction activities which have been analyzed below are: 1) demolition, 2) grading, 3) building construction, 4) paving, and 5) application of architectural coatings. The timing and construction equipment used are available in Appendix B.

Project Impacts

The construction-related pollutant emissions are shown below in Table 7. Table 7 shows that none of the analyzed pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from construction of the proposed project.

B. Construction-Related Local Impacts

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Salton Sea portion of the South Coast Air Basin. The proposed project has been analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from toxic air contaminants; and from construction-related odor impacts.

1. Local Air Quality Impacts from Construction

The SCAQMD has published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (South Coast Air Quality Management District 2011b). CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the localized significance threshold lookup tables, the CEQA document should contain in its project design features or its mitigation measures the following parameters:

- 1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions.
- 2) The maximum number of acres disturbed on the peak day.
- 3) Any emission control devices added onto off-road equipment.
- 4) Specific dust suppression techniques used on the day of construction activity with maximum emissions.

The CalEEMod output in Appendix B shows the equipment used for this analysis for each phase.

As shown in Table 8, the maximum number of acres disturbed in a day would be five (5) acres.

The local air quality emissions from construction were analyzed using the SCAQMD's Mass Rate Localized Significant Threshold (LST) Look-up Tables and the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, revised July 2008. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. The emission thresholds were calculated based on the Coachella Valley source receptor area (SRA) 30 and a disturbance of five acres per day. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25 meter thresholds. The nearest sensitive receptors are the existing residential, school, and park uses located within the project boundary; therefore, the SCAQMD Look-up Tables for 25 meters was used. Table 9 shows the on-site emissions from the CalEEMod model and the LST emissions thresholds.

The data provided in Table 9 shows that none of the analyzed pollutants would exceed the SCAQMD LST emissions thresholds at the nearest sensitive receptors. Therefore, a less than significant local air quality impact would occur from construction of the proposed project.

2. Construction-Related Toxic Air Contaminant Impacts

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of "individual cancer risk." "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 70 year lifetime will contract cancer, based on the use of standard risk-assessment methodology. Given the relatively limited number of heavy-duty construction equipment and the short-term construction schedule, the proposed project would not result in a long-term (i.e., 70 years) substantial source of toxic air contaminant emissions and corresponding individual cancer risk. Therefore, no significant short-term toxic air contaminant impacts are anticipated to occur during construction of the proposed project.

3. Construction-Related Odor Impacts

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of short-term in nature and the odor emissions are expected to cease upon the drying or hardening of the odor-producing materials. Due to the short-term nature and limited amounts of odor producing materials being utilized, no significant impact related to odors would occur during construction of the proposed project.

Table 7

Regional Construction-Related Pollutant Emissions¹

| Activity | Pollutant Emissions (pounds/day) | | | | | |
|--|----------------------------------|--------------|---------------|-----------------|--------------|-------------|
| | VOC | NOx | CO | SO ₂ | PM10 | PM2.5 |
| Demolition | | | | | | |
| On-Site ² | 4.05 | 42.70 | 33.89 | 0.04 | 3.03 | 2.12 |
| Off-Site ³ | 0.23 | 2.36 | 3.32 | 0.01 | 0.37 | 0.14 |
| Subtotal | 4.28 | 45.06 | 37.22 | 0.05 | 3.40 | 2.25 |
| Grading | | | | | | |
| On-Site ² | 5.29 | 59.53 | 42.31 | 0.06 | 5.47 | 3.89 |
| Off-Site ³ | 0.06 | 0.07 | 0.80 | 0.00 | 0.17 | 0.05 |
| Subtotal | 5.35 | 59.60 | 43.10 | 0.06 | 5.63 | 3.94 |
| Building Construction | | | | | | |
| On-Site ² | 2.35 | 20.97 | 17.12 | 0.03 | 1.29 | 1.21 |
| Off-Site ³ | 5.63 | 19.58 | 74.70 | 0.16 | 11.70 | 3.39 |
| Subtotal | 7.98 | 40.55 | 91.82 | 0.19 | 12.99 | 4.60 |
| Paving | | | | | | |
| On-Site ² | 1.38 | 6.98 | 15.52 | 0.03 | 0.32 | 0.32 |
| Off-Site ³ | 0.02 | 0.03 | 0.35 | 0.00 | 0.13 | 0.03 |
| Subtotal | 1.41 | 7.01 | 15.87 | 0.03 | 0.45 | 0.36 |
| Architectural Coating | | | | | | |
| On-Site ² | 39.79 | 0.86 | 1.80 | 0.00 | 0.02 | 0.02 |
| Off-Site ³ | 0.38 | 0.44 | 5.54 | 0.02 | 2.01 | 0.54 |
| Subtotal | 40.18 | 1.30 | 7.33 | 0.03 | 2.03 | 0.56 |
| Total of Overlapping Phases⁴ | 49.56 | 48.85 | 115.03 | 0.25 | 15.47 | 5.52 |
| SCAQMD Thresholds | 75 | 100 | 550 | 150 | 150 | 55 |
| Exceeds Thresholds? | No | No | No | No | No | No |

¹ Source: CalEEMod Version 2013.2.2

² On-site emissions from equipment operated on-site that is not operated on public roads.

³ Off-site emissions from equipment operated on public roads.

⁴ Construction phase, paving phase and painting phase may overlap.

Table 8**Maximum Number of Acres Disturbed Per Day¹**

| Activity | Equipment | Number | Acres/8hr-day | Total Acres |
|-----------------|---------------------------|--------|---------------|-------------|
| Demolition | Rubber Tired Dozers | 2 | 0.5 | 1 |
| | Excavators | 3 | 0.5 | 1.5 |
| Total per phase | | - | - | 2.5 |
| Activity | Equipment | Number | Acres/8hr-day | Total Acres |
| Site Grading | Graders | 1 | 0.5 | 0.5 |
| | Rubber Tired Dozers | 1 | 0.5 | 0.5 |
| | Scrapers | 2 | 1 | 2 |
| | Excavators | 2 | 0.5 | 1 |
| | Tractors/Loaders/Backhoes | 2 | 0.5 | 1 |
| Total per phase | | - | - | 5 |

¹ Source: South Coast AQMD, Fact Sheet for Applying CalEEMod to Localized Significance Thresholds, 2011b.

Table 9

Local Construction Emissions at the Nearest Receptors¹

| Construction Phase | On-Site Pollutant Emissions (pounds/day) | | | |
|--------------------------------------|--|--------------|-----------|----------|
| | NOx | CO | PM10 | PM2.5 |
| Demolition | 42.70 | 33.89 | 3.03 | 2.12 |
| Grading | 59.53 | 0.80 | 0.17 | 0.05 |
| Building Construction | 20.97 | 17.12 | 1.29 | 1.21 |
| Paving | 6.98 | 15.52 | 0.32 | 0.32 |
| Architectural Coating | 0.86 | 1.80 | 0.02 | 0.02 |
| SCAQMD Thresholds² | 304 | 2,292 | 14 | 8 |
| Exceeds Threshold? | No | No | No | No |

| Phase II Construction Phase | On-Site Pollutant Emissions (pounds/day) | | | |
|--------------------------------------|--|--------------|-----------|----------|
| | NOx | CO | PM10 | PM2.5 |
| Grading | 74.81 | 49.14 | 6.08 | 4.60 |
| Building Construction | 28.51 | 18.51 | 1.97 | 1.85 |
| Paving | 20.30 | 14.73 | 1.14 | 1.05 |
| Architectural Coating | 2.19 | 1.87 | 0.17 | 0.17 |
| SCAQMD Thresholds³ | 304 | 2,292 | 14 | 8 |
| Exceeds Threshold? | No | No | No | No |

¹ Source: Calculated from CalEEMod on-site emissions.

² Source: SCAQMD's Mass Rate Look-up Tables for 5 acres at a distance of 25 m in SRA 30 Coachella Valley.

VII. LONG-TERM AIR QUALITY OPERATIONAL IMPACTS

The on-going operation of the proposed project would result in a long-term increase in air quality emissions. This increase would be due to emissions from the project-generated vehicle trips and through operational emissions from the on-going use of the proposed project. The following section provides an analysis of potential long-term air quality impacts due to: regional air quality and local air quality impacts.

A. Operations-Related Regional Air Quality Impacts

The potential operations-related air emissions have been analyzed below for the criteria pollutants and cumulative impacts.

1. Operations-Related Criteria Pollutant Analysis

The operations-related criteria air quality impacts created by the proposed project have been analyzed through use of the CalEEMod model. The operating emissions were based on the year 2035, the project's proposed buildout year. The operations daily emissions printouts from the CalEEMod model are provided in Appendix B. The CalEEMod model analyzes operational emissions from area sources, energy usage, and mobile sources, which are discussed below.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project were obtained from the traffic analysis for the project. Reductions of 13 percent were taken for internal capture resulting in a trip generation rate of 38.56 trips per thousand square feet for retail uses and 5.77 trips per dwelling unit for residential uses. Please see CalEEMod output comments sections in Appendix B for details.

Area Sources

Area sources include emissions from hearths, consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment.

Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings that would be applied after January 1, 2014 will be limited to an average of 50 grams per liter or less and the CalEEMod model default VOC emissions have been adjusted accordingly. Also, in order to account for SCAQMD Rule 445, no wood burning stoves or fireplaces will be included and the CalEEMod defaults for such have been adjusted accordingly. No other changes were made to the default area source parameters.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. 2013 Title 24 residential standards are at least 25 percent more efficient than 2008 Title 24 Standards (used as baseline in CalEEMod). Energy Star appliances are to be used on-site. In addition, the project is to include high efficiency lighting that is at least 10 percent more efficient than that required by Title 24. No other changes were made to the default energy usage parameters.

Project Impacts

The worst-case summer or winter VOC, NO_x, CO, SO₂, PM₁₀, and PM_{2.5} emissions created from the proposed project's long-term operations have been calculated and are summarized below in Table 10. The data provided in Table 10 shows that for the on-going operations activities for the proposed project, VOC, NO_x, and CO emissions would exceed the SCAQMD regional thresholds of significance discussed above in Section V. Therefore, mitigation is required to reduce impacts from VOC, NO_x, and CO emissions.

Mitigation Measures 1 through 7 are provided to reduce the operational emissions (see Section X. Mitigation Measures for details on the measures).

The mitigated operational regional criteria pollutant emissions are shown below in Table 11. Table 11 shows that even with incorporation of the aforementioned mitigation measures (see notes on the CalEEMod output in Appendix B for details), VOC, NO_x, and CO would still exceed the regional emissions thresholds. Therefore, a potentially significant and unavoidable regional air quality impact would occur from operation of the proposed project.

2. Cumulative Regional Air Quality Impacts

Cumulative projects include local development as well as general growth within the project area. However, as with most development, the greatest source of emissions is from mobile sources, which travel well out of the local area. Therefore, from an air quality standpoint, the cumulative analysis would extend beyond any local projects and when wind patterns are considered would cover an even larger area. Accordingly, the cumulative analysis for the project's air quality must be generic by nature.

The project area is out of attainment for both ozone and particulate matter (PM-10). Construction and operation of cumulative projects will further degrade the local air quality, as well as the air quality of the Salton Sea portion of the South Coast Air Basin. The greatest cumulative impact on the quality of regional air cell will be the incremental addition of pollutants mainly from increased traffic from residential and commercial development, and the use of heavy equipment and trucks associated with the construction of these projects. Air quality will be temporarily degraded during construction activities that occur separately or simultaneously. However, in accordance with the SCAQMD methodology, projects that do not exceed the SCAQMD criteria or can be mitigated to less than criteria levels are not significant and

do not add to the overall cumulative impact. With respect to long-term emissions, this project would create a significant and unavoidable cumulative impact.

B. Operations-Related Local Air Quality Impacts

Project-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Salton Sea portion of the South Coast Air Basin. The proposed project has been analyzed for the potential local CO emission impacts from the project-generated vehicular trips and from the potential local air quality impacts from on-site operations. The following analysis analyzes the vehicular CO emissions, local impacts from on-site operations, and odor impacts.

1. Local CO Emission Impacts from Project-Generated Vehicular Trips

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential local air quality impacts. Local air quality impacts can be assessed by comparing future without and with project CO levels to the State and Federal CO standards which were presented in above in Section V.

To determine if the proposed project could cause emission levels in excess of the CO standards discussed above in Section V, a sensitivity analysis is typically conducted to determine the potential for CO “hot spots” at a number of intersections in the general project vicinity. Because of reduced speeds and vehicle queuing, “hot spots” potentially can occur at high traffic volume intersections with a Level of Service E or worse.

The Traffic Analysis showed that at project buildout the proposed project would generate a maximum of 37,964 trips per day. The intersection with the highest peak hour traffic volume is located at Washington Street and Avenue 48 and has a PM peak hour volume of 2,475 trips for the buildout year with project scenario. The 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan) showed that an intersection which has a daily traffic volume of approximately 100,000 vehicles per day would not violate the CO standard. Therefore as the intersection with the highest traffic volume falls far short of 100,000 vehicles, no CO “hot spot” modeling was performed and no significant long-term air quality impact is anticipated to local air quality with the on-going use of the proposed project.

2. Local Air Quality Impacts from On-Site Operations

The proposed project involves the construction of residential and retail uses. The long-term emissions, as discussed previously, are primarily in the form of mobile source emissions and consumer products. According to SCAQMD LST methodology, LSTs would apply to the operational phase of a project if the project includes stationary sources, or attracts mobile sources that may spend long periods queuing

and idling at the site; such as warehouse/transfer facilities. Therefore, due to the lack of stationary source emissions, no long-term LST analysis is warranted.

3. Operations-Related Odor Impacts

The SCAQMD recommends that odor impacts be addressed in a qualitative manner. Such an analysis shall determine whether the project would result in excessive nuisance odors, as defined under the California Code of Regulations and Section 41700 of the California Health and Safety Code, and thus would constitute a public nuisance related to air quality.

Land uses typically considered to be associated with odors include wastewater treatment facilities, waste-disposal facilities, or agricultural operations. The project does not contain land uses typically associated with emitting objectionable odors. Diesel exhaust and VOCs would be emitted during construction of the project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore should not reach an objectionable level at the nearest sensitive receptors.

Table 10

Unmitigated Regional Operational Pollutant Emissions¹

| Activity | Pollutant Emissions (pounds/day) | | | | | |
|-----------------------------|----------------------------------|---------------|---------------|-------------|---------------|--------------|
| | VOC | NOx | CO | SO2 | PM10 | PM2.5 |
| Area Sources ² | 62.93 | 1.17 | 101.32 | 0.01 | 2.05 | 2.03 |
| Energy Usage ³ | 0.55 | 4.76 | 2.23 | 0.03 | 0.38 | 0.38 |
| Mobile Sources ⁴ | 74.20 | 130.27 | 759.37 | 1.94 | 123.84 | 35.29 |
| Total Emissions | 137.68 | 136.20 | 862.92 | 1.97 | 126.27 | 37.70 |
| SCAQMD Thresholds | 75 | 100 | 550 | 150 | 150 | 55 |
| Exceeds Threshold? | Yes | Yes | Yes | No | No | No |

¹ Source: CalEEMod Version 2013.2.2

² Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

³ Energy usage consists of emissions from generation of electricity and on-site natural gas usage.

⁴ Mobile sources consist of emissions from vehicles and road dust.

Table 11

Mitigated Regional Operational Pollutant Emissions¹

| Activity | Pollutant Emissions (pounds/day) | | | | | |
|-----------------------------|----------------------------------|---------------|---------------|-------------|--------------|--------------|
| | VOC | NOx | CO | SO2 | PM10 | PM2.5 |
| Area Sources ² | 53.62 | 1.17 | 101.32 | 0.01 | 2.05 | 2.03 |
| Energy Usage ³ | 0.44 | 3.78 | 1.77 | 0.02 | 0.30 | 0.30 |
| Mobile Sources ⁴ | 69.69 | 97.95 | 651.33 | 1.19 | 73.28 | 21.00 |
| Total Emissions | 123.75 | 102.90 | 754.42 | 1.22 | 75.63 | 23.34 |
| SCAQMD Thresholds | 75 | 100 | 550 | 150 | 150 | 55 |
| Exceeds Threshold? | Yes | Yes | Yes | No | No | No |

¹ Source: CalEEMod Version 2013.2.2

² Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

³ Energy usage consists of emissions from generation of electricity and on-site natural gas usage.

⁴ Mobile sources consist of emissions from vehicles and road dust.

VIII. GLOBAL CLIMATE CHANGE ANALYSIS

The proposed project is anticipated to generate GHG emissions from area sources, energy usage, mobile sources, waste, water, and construction equipment. The following provides the methodology used to calculate the project-related GHG emissions, the project impacts and a consistency analysis of the proposed project with any applicable GHG reduction plans, policies or regulations.

A. Methodology

The CalEEMod Version 2013.2.2 was used to calculate the GHG emissions from the proposed project (see Appendix C). The project's emissions were compared to the both the tier 3 SCAQMD draft screening threshold of 3,000 metric tons CO₂e per year for all land uses and then the SCAQMD 2035 Target Service Population Threshold of 3.0 MTCO₂e/SP/year. The service population was estimated to be 3,518 future residents (estimated population from CalEEMod) plus 1,600 workers (500 SF/employee for retail uses), for a total service population of 5,118.

Each source of GHG emissions is described in greater detail below

1. Area Sources

Area sources include emissions from hearths, consumer products, landscape equipment and architectural coatings. Area sources were analyzed in the manner described in Section VII above.

Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings that would be applied after January 1, 2014 will be limited to an average of 50 grams per liter or less and the CalEEMod model default VOC emissions have been adjusted accordingly. Also, in order to account for SCAQMD Rule 445, no wood burning stoves or fireplaces will be included and the CalEEMod defaults for such have been adjusted accordingly. No other changes were made to the default area source parameters.

2. Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. 2013 Title 24 residential standards are at least 25 percent more efficient than 2008 Title 24 Standards (used as baseline in CalEEMod). The project is to include high efficiency lighting that is at least 10 percent more efficient than that required by Title 24. Energy Star Appliances are to be used on-site. No other changes were made to the default energy usage parameters. Energy usage was analyzed in the manner described in Section VII above.

3. Mobile Sources

Mobile sources were analyzed in the manner described in Section VII above.

4. Waste

Waste includes the GHG emissions generated from the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. AB 341 requires each jurisdiction in California to divert at least 75 percent of its waste away from landfills by 2020. No other changes were made to the CalEEMod default values for waste generated.

5. Water

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. Green Building Standards require a 20 percent reduction in indoor water use. The project will be required to comply with City requirements for water-efficient irrigation systems. No other changes were made to the CalEEMod defaults.

6. Construction

The construction-related GHG emissions were also included in the analysis and were based on a 30 year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The construction-related GHG emissions were calculated by CalEEMod and detailed above in Section VI.

B. Project Greenhouse Gas Emissions

The GHG emissions have been calculated based on the parameters described above. A summary of the results are shown above in Table 12 and the CalEEMod model run for the proposed project is provided in Appendix C. Table 12 shows that the proposed project's unmitigated emissions for buildout Year 2035 would be 37,922.64 MTCO₂e per year with 7.4 MTCO₂e/SP/year. According to the thresholds of significance established above in Section V, a cumulative global climate change impact would occur if the GHG emissions created from the on-going operations would exceed the screening threshold of 3,000 metric tons per year of CO₂e and the SCAQMD 2035 Target Service Population Threshold of 3.0 MTCO₂e/SP/year. As the emissions exceed SCAQMD thresholds, mitigation is required.

The data provided in Table 14 shows that the proposed project's mitigated year 2035 emissions would be approximately 27,111.64 metric tons of CO₂e per year; and at 5.3 MTCO₂e/SP/year, still exceeds the SCAQMD 2035 Target Service Population threshold of 3.0 MTCO₂e/SP/year for projects. The mitigated emissions values also incorporate the CAPCOA-based land use and site enhancement measures available for reductions through CalEEMod (see the notes section of the annual CalEEMod outputs in Appendix C). However, as the mitigated project-related GHG emissions exceed the tier 4 SCAQMD 2035 target service population threshold, impacts from project-related GHGs are considered to be significant and unavoidable.

The project is subject to the requirements of the California Green Building Standards Code. On January 12, 2010, the State Building Standards Commission unanimously adopted

updates to the California Green Building Standards Code, which went into effect on January 1, 2011. The Code is a comprehensive and uniform regulatory code for all residential, commercial and school buildings.

The California Green Building Standards Code does not prevent a local jurisdiction from adopting a more stringent code as state law provides methods for local enhancements. The Code recognizes that many jurisdictions have developed existing construction and demolition ordinances, and defers to them as the ruling guidance provided they provide a minimum 50-percent diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. State building code provides the minimum standard that buildings need to meet in order to be certified for occupancy. Enforcement is generally through the local building official.

The California Green Building Standards Code (code section in parentheses) requires:

- Water Efficiency and Conservation [Indoor Water Use (4.303.1)]. Fixtures and fixture fittings reducing the overall use of potable water within the building by at least 20 percent shall be provided. The 20 percent reduction shall be demonstrated by one of the following methods:
 - Prescriptive Method: Showerheads (≤ 2.0 gpm @ 80 psi); Residential Lavatory Faucets (≤ 1.5 gpm @ 60 psi); Nonresidential Lavatory Faucets ($\leq .4$ gpm @ 60 psi); Kitchen Faucets (≤ 1.8 gpm @ 60 psi); Toilets (≤ 1.28 gal/flush); and urinals (≤ 0.5 gal/flush).
 - Performance Method: Provide a calculation demonstrating a 20% reduction of indoor potable water using the baseline values set forth in Table 4.303.1. The calculation will be limited to the total water usage of showerheads, lavatory faucets, water closets and urinals within the dwelling.
- Water Efficiency and Conservation [Outdoor Water Use (4.304.1)]. Irrigation Controllers. Automatic irrigation system controllers for landscaping provided by the builder and installed at the time of final inspection shall comply with the following:
 - Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' watering needs as weather or soil conditions change.
 - Weather-based controllers without integral rain sensors or communication systems that account for rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s).
- Construction Waste Reduction of at least 50 percent (4.408.1). Recycle and/or salvage for reuse a minimum of 50 percent of the nonhazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4; OR meet a more stringent local construction and demolition waste

management ordinance. Documentation is required per Section 4.408.5. Exceptions:

- Excavated soil and land-clearing debris.
- Alternate waste reduction methods developed by working with local enforcing agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.
- The enforcing agency may make exceptions to the requirements of this section when jobsites are located in areas beyond the haul boundaries of the diversion facility.
- Materials pollution control (4.504.1 – 4.504.6). Low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring and particleboard.
- Installer and Special Inspector Qualifications (702.1-702.2). Mandatory special installer inspector qualifications for installation and inspection of energy systems (e.g., heat furnace, air conditioner, mechanical equipment).

C. Greenhouse Gas Plan Consistency

The City of La Quinta Draft Greenhouse Gas Reduction Plan is the applicable plan adopted by the City for the purpose of reducing the emissions of GHGs. To determine if the project's GHG emissions will conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs, the project's year 2035 mitigated emissions were compared to the project's baseline (2005) GHG emissions to ensure that the project's year 2035 emissions are 28 percent below 2005 levels by 2035.

The project's Year 2005 baseline emissions (see Table 13) were compared to the project's year 2035 emissions (with mitigation and regulation) shown in Table 14. The baseline emissions were estimated only for operations and in a similar manner as described above; however, the operational year was selected as 2005 based on the City of La Quinta GHG Reduction Plan methodology. No reductions, emissions-reducing design features, or mitigation were used to run the year 2005 analysis. The summary of baseline emissions in Table 13 included the construction-related GHG emissions for year 2035 as calculated for opening year. The proposed project's emissions for the baseline year would be 59,232.89 MTCO₂e per year and the project's mitigated 2035 emissions would be 27,111.64 MTCO₂e per year.

With mitigation and compliance with regulation (such as Pavley, the Renewable Energy Standard, compliance with Green Building Standards, and 2013 Title 24 standards [approximately 25% more efficient than 2008 Title 24 standards for residential uses] etc.), the project's year 2035 mitigated emissions would be reduced by 54.2 percent from baseline (2005) emissions; which meets the City of La Quinta GHG Reduction Plan threshold of a 28 percent reduction from baseline emissions by 2035. Therefore, with incorporation of mitigation measures 1 through 7, the proposed project would not conflict with an

applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs.

Table 12

Unmitigated Project-Related Greenhouse Gas Emissions¹

| Category | Greenhouse Gas Emissions (Metric Tons/Year) | | | | | |
|--|---|------------------------|-----------------|-----------------|------------------|-------------------|
| | Bio-CO2 | NonBio-CO ₂ | CO ₂ | CH ₄ | N ₂ O | CO ₂ e |
| Area Sources ² | 0.00 | 886.86 | 886.86 | 0.03 | 0.02 | 892.47 |
| Energy Usage ³ | 0.00 | 11,113.17 | 11,113.17 | 0.25 | 0.07 | 11,138.90 |
| Mobile Sources ⁴ | 0.00 | 22,592.75 | 22,592.75 | 0.63 | 0.00 | 22,605.94 |
| Solid Waste ⁵ | 285.36 | 0.00 | 285.36 | 16.86 | 0.00 | 639.52 |
| Water ⁶ | 44.22 | 1,602.54 | 1,646.76 | 4.58 | 0.11 | 1,778.51 |
| Construction ⁷ | 0.00 | 866.03 | 866.03 | 0.06 | 0.00 | 867.31 |
| Total Emissions | 329.59 | 37,061.35 | 37,390.94 | 22.41 | 0.20 | 37,922.64 |
| Draft SCAQMD Threshold | | | | | | 3,000 |
| Exceeds Threshold? | | | | | | Yes |
| Emissions per Service Population (SP) | | | | | | 7.4 |
| SCAQMD 2035 Target Service Population (SP) Threshold (MTCO ₂ e/SP/year) | | | | | | 3.0 |
| Exceeds Threshold? | | | | | | Yes |

¹ Source: CalEEMod Version 2013.2.2 for buildout year 2035

² Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

³ Energy usage consist of GHG emissions from electricity and natural gas usage.

⁴ Mobile sources consist of GHG emissions from vehicles.

⁵ Solid waste includes the CO₂ and CH₄ emissions created from the solid waste placed in landfills.

⁶ Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

⁷ Construction GHG emissions CO₂e based on a 30 year amortization rate.

Table 13**Year 2005 Baseline Project-Related Greenhouse Gas Emissions¹**

| Category | Greenhouse Gas Emissions (Metric Tons/Year) | | | | | |
|-----------------------------|---|------------------------|------------------|-----------------|------------------|-------------------|
| | Bio-CO2 | NonBio-CO ₂ | CO ₂ | CH ₄ | N ₂ O | CO ₂ e |
| Area Sources ² | 0.00 | 886.86 | 886.86 | 0.04 | 0.02 | 892.67 |
| Energy Usage ³ | 0.00 | 11,113.17 | 11,113.17 | 0.25 | 0.07 | 11,138.90 |
| Mobile Sources ⁴ | 0.00 | 43,846.81 | 43,846.81 | 3.29 | 0.00 | 43,915.97 |
| Solid Waste ⁵ | 285.36 | 0.00 | 285.36 | 16.86 | 0.00 | 639.52 |
| Water ⁶ | 44.22 | 1,602.54 | 1,646.76 | 4.58 | 0.11 | 1,778.51 |
| Construction ⁷ | 0.00 | 866.03 | 866.03 | 0.06 | 0.00 | 867.31 |
| Total Emissions | 329.59 | 58,315.42 | 58,645.00 | 25.09 | 0.20 | 59,232.89 |

¹ Source: CalEEMod Version 2013.2.2 for baseline year 2005 without design features, mitigation or regulation, per CARB protocol.

² Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

³ Energy usage consist of GHG emissions from electricity and natural gas usage.

⁴ Mobile sources consist of GHG emissions from vehicles.

⁵ Solid waste includes the CO₂ and CH₄ emissions created from the solid waste placed in landfills.

⁶ Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

⁷ Construction GHG emissions CO₂e based on opening year emissions and a 30 year amortization rate.

Table 14

Year 2035 Mitigated Project-Related Greenhouse Gas Emissions¹

| Category | Greenhouse Gas Emissions (Metric Tons/Year) | | | | | |
|---|--|------------------------|------------------|-----------------|------------------|-------------------|
| | Bio-CO2 | NonBio-CO ₂ | CO ₂ | CH ₄ | N ₂ O | CO ₂ e |
| Area Sources ² | 0.00 | 886.86 | 886.86 | 0.03 | 0.02 | 892.47 |
| Energy Usage ³ | 0.00 | 9,612.40 | 9,612.40 | 0.22 | 0.06 | 9,634.36 |
| Mobile Sources ⁴ | 0.00 | 13,884.16 | 13,884.16 | 0.40 | 0.00 | 13,892.59 |
| Solid Waste ⁵ | 142.68 | 0.00 | 142.68 | 8.43 | 0.00 | 319.76 |
| Water ⁶ | 35.38 | 1,364.21 | 1,399.59 | 3.66 | 0.09 | 1,505.15 |
| Construction ⁷ | 0.00 | 866.03 | 866.03 | 0.06 | 0.00 | 867.31 |
| Total Emissions | 178.06 | 26,613.66 | 26,791.72 | 12.81 | 0.16 | 27,111.64 |
| | Project's Percent Reduction from 2005 Baseline | | | | | 54.2 |
| | Percent Reduction Threshold from GHG Reduction Plan | | | | | 28 |
| | Meets Reduction Threshold? | | | | | Yes |
| Emissions per Service Population (SP) | | | | | | 5.3 |
| SCAQMD 2035 Target Service Population (SP) Threshold (MTCO₂e/SP/year) | | | | | | 3.0 |
| Exceeds Threshold? | | | | | | Yes |

¹ Source: CalEEMod Version 2013.2.2 for year 2035 with mitigation and regulation.

² Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

³ Energy usage consist of GHG emissions from electricity and natural gas usage.

⁴ Mobile sources consist of GHG emissions from vehicles.

⁵ Solid waste includes the CO₂ and CH₄ emissions created from the solid waste placed in landfills.

⁶ Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

⁷ Construction GHG emissions CO₂e based on opening year emissions and a 30 year amortization rate.

IX. AIR QUALITY COMPLIANCE

The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125). The regional plan that applies to the proposed project includes the SCAQMD Air Quality Management Plan (AQMP). Therefore, this section discusses any potential inconsistencies of the proposed project with the AQMP.

The purpose of this discussion is to set forth the issues regarding consistency with the assumptions and objectives of the AQMP and discuss whether the proposed project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

The SCAQMD CEQA Handbook states that "New or amended General Plan Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP." Strict consistency with all aspects of the plan is usually not required. A proposed project should be considered to be consistent with the AQMP if it furthers one or more policies and does not obstruct other policies. The SCAQMD CEQA Handbook identifies two key indicators of consistency:

- (1) Whether the project will result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.
- (2) Whether the project will exceed the assumptions in the AQMP in 2012 or increments based on the year of project buildout and phase.

Both of these criteria are evaluated in the following sections.

A. Criterion 1 - Increase in the Frequency or Severity of Violations

Based on the air quality modeling analysis contained in this Air Analysis, short-term construction impacts will not result in significant impacts based on the SCAQMD regional and local thresholds of significance. This Air Analysis also found that, even with mitigation, long-term operations impacts will result in significant and unavoidable impacts based on the SCAQMD regional and local thresholds of significance.

Therefore, the proposed project is projected to contribute to the exceedance of air pollutant concentration standards and is found to be inconsistent with the AQMP for the first criterion.

B. Criterion 2 - Exceed Assumptions in the AQMP?

Consistency with the AQMP assumptions is determined by performing an analysis of the proposed project with the assumptions in the AQMP. The emphasis of this criterion is to ensure that the analyses conducted for the proposed project are based on the same

forecasts as the AQMP. The 2012-2035 Regional Transportation/Sustainable Communities Strategy, prepared by SCAG, 2012, consists of three sections: Core Chapters, Ancillary Chapters, and Bridge Chapters. The Growth Management, Regional Mobility, Air Quality, Water Quality, and Hazardous Waste Management chapters constitute the Core Chapters of the document. These chapters currently respond directly to federal and state requirements placed on SCAG. Local governments are required to use these as the basis of their plans for purposes of consistency with applicable regional plans under CEQA. For this project, the City Land Use Plan defines the assumptions that are represented in the AQMP.

The project site is currently designated as Village Commercial (land uses within the Village Commercial designation include commercial, professional office, and residential uses), Neighborhood Commercial (Shopping Center), Major Community Facilities (Civic Center), and Parks and Recreation (La Quinta Community Park) in the General Plan. The project is a mixed use project, with retail and residential uses. As the proposed project is consistent with the General Plan land use designations, the proposed project is not anticipated to exceed the emissions that are the basis for the AQMP assumptions for the project site, and is found to be consistent with the AQMP for the second criterion.

However, based on the failure of Criterion 1 above, the proposed project will result in an inconsistency with the SCAQMD AQMP. Therefore, a significant impact will potentially occur.

X. MITIGATION MEASURES

A. Construction Measures

Adherence to SCAQMD Rules 403 and 403.1 is required and the project will be required to obtain and prepare a Fugitive Dust Control Plan.

No construction mitigation is required.

B. Operational Measures

Mitigation Measure 1. The project applicant shall provide sidewalks within the project boundary and along the off-site roadway improvements.

Mitigation Measure 2. The project applicant shall require that all building structures meet or exceed 2013 Title 24, Part 6 Standards and meet Green Building Code Standards.

Mitigation Measure 3. The project applicant shall require that all faucets, toilets and showers installed in the proposed structures utilize low-flow fixtures that would reduce indoor water demand by 20% per CalGreen Standards.

Mitigation Measure 4. The project applicant shall require that ENERGY STAR-compliant appliances are installed where appliances are required on-site.

Mitigation Measure 5. The project applicant shall require recycling programs that reduce waste to landfills by a minimum of 75 percent.

Mitigation Measure 6. The project applicant shall require that high-efficiency lighting be installed that is at least 10% more efficient than standard lighting.

Mitigation Measure 7. To the extent feasible, the project applicant shall use paints and coatings with a VOC content lower than SCAQMD Rule 1113 requires for application to surfaces of residential dwelling units and commercial units within project boundaries.

XI. REFERENCES

California Air Resources Board

- 2008 Resolution 08-43
- 2008 Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act
- 2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document
- 2015 Historical Air Quality, Top 4 Summary
- 2014 First Update to the Climate Change Scoping Plan, Building on the Framework Pursuant to AB32, the California Global Warming Solutions Act of 2006. May.

City of La Quinta

- 2013 City of La Quinta 2035 General Plan. February 19.
- 2012 Draft Greenhouse Gas Reduction Plan. July.

Governor's Office of Planning and Research

- 2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review
- 2009 CEQA Guideline Sections to be Added or Amended

Kunzman Associates, Inc.

- 2016 La Quinta Village Build-Out Plan Traffic Impact Analysis. February 19.

South Coast Air Quality Management District

- 1993 CEQA Air Quality Handbook
- 2007 2007 Air Quality Management Plan
- 2008 Final Localized Significance Threshold Methodology, Revised
- 2011 Appendix A Calculation Details for CalEEMod
- 2012 Revised Draft 2012 Air Quality Management Plan

Southern California Association of Governments

- 2012 2012-2035 Regional Transportation Plan/Sustainable Communities Strategy

U.S. Geological Survey

- 2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

APPENDICES

Appendix A – Glossary of Terms

Appendix B – CalEEMod Model Daily Emissions Printouts

Appendix C – CalEEMod Model Annual Emissions Printouts

APPENDIX A

Glossary of Terms

| | |
|----------------------|--|
| AQMP | Air Quality Management Plan |
| BACT | Best Available Control Technologies |
| CAAQS | California Ambient Air Quality Standards |
| CalEPA | California Environmental Protection Agency |
| CARB | California Air Resources Board |
| CCAA | California Clean Air Act |
| CCAR | California Climate Action Registry |
| CEQA | California Environmental Quality Act |
| CFCs | Chlorofluorocarbons |
| CH ₄ | Methane |
| CNG | Compressed natural gas |
| CO | Carbon monoxide |
| CO ₂ | Carbon dioxide |
| CO ₂ e | Carbon dioxide equivalent |
| DPM | Diesel particulate matter |
| EPA | U.S. Environmental Protection Agency |
| GHG | Greenhouse gas |
| GWP | Global warming potential |
| HIDPM | Hazard Index Diesel Particulate Matter |
| HFCs | Hydrofluorocarbons |
| IPCC | International Panel on Climate Change |
| LCFS | Low Carbon Fuel Standard |
| LST | Localized Significant Thresholds |
| MTCO ₂ e | Metric tons of carbon dioxide equivalent |
| MMTCO ₂ e | Million metric tons of carbon dioxide equivalent |
| MPO | Metropolitan Planning Organization |
| NAAQS | National Ambient Air Quality Standards |
| NO _x | Nitrogen Oxides |
| NO ₂ | Nitrogen dioxide |
| N ₂ O | Nitrous oxide |
| O ₃ | Ozone |
| OPR | Governor's Office of Planning and Research |
| PFCs | Perfluorocarbons |
| PM | Particle matter |
| PM10 | Particles that are less than 10 micrometers in diameter |
| PM2.5 | Particles that are less than 2.5 micrometers in diameter |
| PMI | Point of maximum impact |
| PPM | Parts per million |
| PPB | Parts per billion |
| RTIP | Regional Transportation Improvement Plan |
| RTP | Regional Transportation Plan |
| SANBAG | San Bernardino Association of Governments |
| SCAB/SoCAB | South Coast Air Basin |
| SCAG | Southern California Association of Governments |

| | |
|-----------------|---|
| SCAQMD | South Coast Air Quality Management District |
| SSAB | Salton Sea Air Basin |
| SF ₆ | Sulfur hexafluoride |
| SIP | State Implementation Plan |
| SO _x | Sulfur Oxides |
| TAC | Toxic air contaminants |
| VOC | Volatile organic compounds |

APPENDIX B

CalEEMod Model Daily Emissions Printouts

**6115a The Village Build-Out Plan
Riverside-Salton Sea County, Summer**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------|----------|---------------|-------------|--------------------|------------|
| Other Asphalt Surfaces | 2.55 | Acre | 2.55 | 111,078.00 | 0 |
| Apartments Low Rise | 1,230.00 | Dwelling Unit | 30.02 | 1,230,000.00 | 3518 |
| Regional Shopping Center | 800.00 | 1000sqft | 18.37 | 800,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 15 | | | Operational Year | 2035 |
| Utility Company | Imperial Irrigation District | | | | |
| CO2 Intensity (lb/MWhr) | 1270.9 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Redevelopment= 30.69 acres & Vacant land= 20.25 acre (total site acreage= 50.94). Approximately 5% of the total site on-site roadways/parking.

Construction Phase - Spring 2017 to beginning 2035. Construction timing proportionately based on CalEEMod defaults (4.7% demo, 7.4% grading, 75% building const. (+ 2.7% here as site prep. not needed), 5.1% paving, & 5.1% ac).

Demolition - Demolition of 511,456 SF

Grading - Site is a total of 50.94 acres.

Architectural Coating - SCAQMD Rule 1113 limits architectural coating to 50 g/L VOC. CalEEMod Appendix A calculations res. int. 1,845,000 ext. 621,665 & non-res 1,200,000 int. 406,665 ext. Ext. includes 6% of paved areas.

Vehicle Trips - As per TIA, trip generation is 38.56 trips per TSF for retail & 5.77 trips per DU for residential (includes the 13% reduction from intenal trips).

Woodstoves - SCAQMD Rule 445 prohibits permanently installed wood burning devices in new developments.

Area Coating - SCAQMD Rule 1115 limits architectural coating to 50 g/L VOC. CalEEMod Appendix A, non-res. int. 1,200,000 ext. 406,665 & residential int. 1,845,000 ext. 621,665. Ext. includes 6% paved areas.

Construction Off-road Equipment Mitigation -

Area Mitigation - SCAQMD Rule 1115 limits all architectural coating to 50 g/L VOC.

Energy Mitigation - 2013 Title 24 standards for residential are 25% more efficient than 2008 standards. Energy Star appliances to be installed on-site as needed. install high efficiency lighting that is at least 10% better than Title 24 requires.

Water Mitigation - Per Green Building Standards. Water-efficient landscaping installed per City requirements.

Waste Mitigation - AB 341 requires diversion of at least 75% of its waste away from landfills by 2020.

Sequestration -

Mobile Land Use Mitigation - 26.47 du/acre. 87 jobs per job acre. diversity = mix of residential, OS and commercial uses. 0.22 miles from Calle Tampico. Adjacent to at least 2 Sunline bus stops route 70 on Avenida Bermudas and Calle Sinaloa. Sidewalks connecting on and off-site.

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|--------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 455,539.00 | 406,665.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 1,366,617.00 | 1,200,000.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 830,250.00 | 621,665.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 2,490,750.00 | 1,845,000.00 |
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |

| | | | |
|---------------------------|---|----------|----------|
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 50 |
| tblAreaCoating | Area_Nonresidential_Interior | 1366617 | 1200000 |
| tblAreaCoating | Area_Residential_Exterior | 830250 | 621665 |
| tblAreaCoating | Area_Residential_Interior | 2490750 | 1845000 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 250 | 50 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 250 | 50 |
| tblAreaMitigation | UseLowVOCPaintResidentialInteriorValue | 250 | 50 |
| tblConstructionPhase | NumDays | 75.00 | 238.00 |
| tblConstructionPhase | NumDays | 1,110.00 | 3,626.00 |
| tblConstructionPhase | NumDays | 70.00 | 219.00 |
| tblConstructionPhase | NumDays | 110.00 | 345.00 |
| tblConstructionPhase | NumDays | 75.00 | 238.00 |
| tblFireplaces | NumberGas | 984.00 | 1,107.00 |
| tblFireplaces | NumberWood | 123.00 | 0.00 |
| tblGrading | AcresOfGrading | 862.50 | 275.00 |
| tblLandUse | LotAcreage | 76.88 | 30.02 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblVehicleTrips | ST_TR | 7.16 | 5.77 |
| tblVehicleTrips | ST_TR | 49.97 | 38.56 |
| tblVehicleTrips | SU_TR | 6.07 | 5.77 |
| tblVehicleTrips | SU_TR | 25.24 | 38.56 |
| tblVehicleTrips | WD_TR | 6.59 | 5.77 |
| tblVehicleTrips | WD_TR | 42.94 | 38.56 |
| tblWoodstoves | NumberCatalytic | 61.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 61.50 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2017 | 4.2741 | 44.9115 | 36.7871 | 0.0489 | 2.6321 | 2.1795 | 4.8116 | 0.4364 | 2.0297 | 2.4660 | 0.0000 | 4,896.9220 | 4,896.9220 | 1.1169 | 0.0000 | 4,920.3773 |
| 2018 | 5.3531 | 59.5986 | 43.1038 | 0.0637 | 7.0348 | 2.7890 | 9.8238 | 3.4459 | 2.5659 | 6.0118 | 0.0000 | 6,362.2109 | 6,362.2109 | 1.9410 | 0.0000 | 6,402.9715 |
| 2019 | 7.9798 | 54.2573 | 90.1019 | 0.1904 | 11.3103 | 2.5060 | 12.9859 | 3.4459 | 2.3055 | 5.7514 | 0.0000 | 15,556.0991 | 15,556.0991 | 1.9400 | 0.0000 | 15,596.8396 |
| 2020 | 7.2024 | 35.1922 | 84.0532 | 0.1903 | 11.3101 | 1.4703 | 12.7803 | 3.0259 | 1.3757 | 4.4016 | 0.0000 | 15,066.3649 | 15,066.3649 | 1.0110 | 0.0000 | 15,087.5955 |
| 2021 | 6.6513 | 30.9691 | 80.2101 | 0.1904 | 11.3100 | 1.2729 | 12.5829 | 3.0259 | 1.1909 | 4.2167 | 0.0000 | 14,935.5099 | 14,935.5099 | 0.9928 | 0.0000 | 14,956.3583 |
| 2022 | 6.2095 | 27.8951 | 77.0726 | 0.1904 | 11.3100 | 1.1205 | 12.4305 | 3.0259 | 1.0482 | 4.0740 | 0.0000 | 14,804.8043 | 14,804.8043 | 0.9756 | 0.0000 | 14,825.2916 |
| 2023 | 5.7879 | 25.3782 | 73.8488 | 0.1903 | 11.3100 | 1.0021 | 12.3121 | 3.0258 | 0.9371 | 3.9630 | 0.0000 | 14,683.9332 | 14,683.9332 | 0.9583 | 0.0000 | 14,704.0567 |
| 2024 | 5.5220 | 24.2692 | 72.0623 | 0.1920 | 11.3100 | 0.9135 | 12.2235 | 3.0258 | 0.8536 | 3.8794 | 0.0000 | 14,709.4699 | 14,709.4699 | 0.9566 | 0.0000 | 14,729.5595 |
| 2025 | 5.2683 | 23.1248 | 70.4145 | 0.1920 | 11.3099 | 0.8296 | 12.1396 | 3.0258 | 0.7747 | 3.8005 | 0.0000 | 14,625.8395 | 14,625.8395 | 0.9454 | 0.0000 | 14,645.6923 |
| 2026 | 5.1295 | 22.9176 | 68.8552 | 0.1920 | 11.3100 | 0.8278 | 12.1377 | 3.0258 | 0.7730 | 3.7988 | 0.0000 | 14,554.9057 | 14,554.9057 | 0.9389 | 0.0000 | 14,574.6224 |
| 2027 | 5.0404 | 22.7899 | 67.8323 | 0.1920 | 11.3100 | 0.8289 | 12.1389 | 3.0259 | 0.7740 | 3.7999 | 0.0000 | 14,495.0918 | 14,495.0918 | 0.9334 | 0.0000 | 14,514.6935 |
| 2028 | 4.9466 | 22.6756 | 66.9508 | 0.1920 | 11.3101 | 0.8291 | 12.1392 | 3.0259 | 0.7742 | 3.8001 | 0.0000 | 14,444.5595 | 14,444.5595 | 0.9285 | 0.0000 | 14,464.0588 |
| 2029 | 4.8673 | 22.5773 | 66.1064 | 0.1920 | 11.3102 | 0.8297 | 12.1398 | 3.0259 | 0.7747 | 3.8007 | 0.0000 | 14,402.1736 | 14,402.1736 | 0.9239 | 0.0000 | 14,421.5749 |
| 2030 | 4.7342 | 17.9987 | 65.5032 | 0.1959 | 11.3103 | 0.4527 | 11.7629 | 3.0260 | 0.4288 | 3.4548 | 0.0000 | 14,705.7060 | 14,705.7060 | 0.4379 | 0.0000 | 14,714.9010 |
| 2031 | 4.6975 | 17.9987 | 65.5917 | 0.1990 | 11.3114 | 0.4472 | 11.7586 | 3.0264 | 0.4238 | 3.4503 | 0.0000 | 14,881.6755 | 14,881.6755 | 0.4513 | 0.0000 | 14,891.1526 |

| | ROG | NOx | CO | SO2 | 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 | | | | | |
| 2032 | 4.6382 | 17.9504 | 65.0979 | 0.1991 | 11.3125 | 0.4480 | 11.7605 | 3.0269 | 0.4246 | 3.4515 | 0.0000 | 14,861.74 19 | 14,861.74 19 | 0.4482 | 0.0000 | 14,871.15 34 |
| 2033 | 4.5819 | 17.9017 | 64.6794 | 0.1991 | 11.3135 | 0.4487 | 11.7622 | 3.0273 | 0.4252 | 3.4525 | 0.0000 | 14,845.58 90 | 14,845.58 90 | 0.4454 | 0.0000 | 14,854.94 33 |
| 2034 | 40.1760 | 7.0060 | 15.8681 | 0.0290 | 1.9913 | 0.3243 | 2.0266 | 0.5282 | 0.3243 | 0.5625 | 0.0000 | 2,695.651 2 | 2,695.651 2 | 0.1257 | 0.0000 | 2,698.289 9 |
| 2035 | 40.1556 | 1.1649 | 7.2681 | 0.0273 | 1.9913 | 0.0250 | 2.0163 | 0.5282 | 0.0239 | 0.5521 | 0.0000 | 1,796.540 6 | 1,796.540 6 | 0.0699 | 0.0000 | 1,798.008 1 |
| Total | 173.2156 | 496.5769 | 1,181.407 4 | 3.0656 | 183.3076 | 19.5446 | 201.7329 | 50.7497 | 18.2278 | 68.6875 | 0.0000 | 237,324.7 886 | 237,324.7 886 | 16.5405 | 0.0000 | 237,672.1 401 |

2.1 Overall Construction (Maximum Daily Emission)

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 | 4.2741 | 44.9115 | 36.7871 | 0.0489 | 1.2211 | 2.1795 | 3.4006 | 0.2227 | 2.0297 | 2.2524 | 0.0000 | 4,896.922 0 | 4,896.922 0 | 1.1169 | 0.0000 | 4,920.377 3 |
| 2018 | 5.3531 | 59.5986 | 43.1038 | 0.0637 | 3.8689 | 2.7890 | 5.7315 | 1.3710 | 2.5659 | 3.9369 | 0.0000 | 6,362.210 9 | 6,362.210 9 | 1.9410 | 0.0000 | 6,402.971 4 |
| 2019 | 7.9798 | 54.2573 | 90.1019 | 0.1904 | 11.3103 | 2.5060 | 12.9859 | 3.0259 | 2.3055 | 4.5939 | 0.0000 | 15,556.09 91 | 15,556.09 91 | 1.9400 | 0.0000 | 15,596.83 96 |
| 2020 | 7.2024 | 35.1922 | 84.0532 | 0.1903 | 11.3101 | 1.4703 | 12.7803 | 3.0259 | 1.3757 | 4.4016 | 0.0000 | 15,066.36 49 | 15,066.36 49 | 1.0110 | 0.0000 | 15,087.59 55 |
| 2021 | 6.6513 | 30.9691 | 80.2101 | 0.1904 | 11.3100 | 1.2729 | 12.5829 | 3.0259 | 1.1909 | 4.2167 | 0.0000 | 14,935.50 99 | 14,935.50 99 | 0.9928 | 0.0000 | 14,956.35 83 |
| 2022 | 6.2095 | 27.8951 | 77.0726 | 0.1904 | 11.3100 | 1.1205 | 12.4305 | 3.0259 | 1.0482 | 4.0740 | 0.0000 | 14,804.80 43 | 14,804.80 43 | 0.9756 | 0.0000 | 14,825.29 16 |
| 2023 | 5.7879 | 25.3782 | 73.8488 | 0.1903 | 11.3100 | 1.0021 | 12.3121 | 3.0258 | 0.9371 | 3.9630 | 0.0000 | 14,683.93 32 | 14,683.93 32 | 0.9583 | 0.0000 | 14,704.05 67 |
| 2024 | 5.5220 | 24.2692 | 72.0623 | 0.1920 | 11.3100 | 0.9135 | 12.2235 | 3.0258 | 0.8536 | 3.8794 | 0.0000 | 14,709.46 99 | 14,709.46 99 | 0.9566 | 0.0000 | 14,729.55 95 |

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 | 62.9285 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |
| Energy | 0.5535 | 4.7600 | 2.2322 | 0.0302 | | 0.3824 | 0.3824 | | 0.3824 | 0.3824 | | 6,038.4548 | 6,038.4548 | 0.1157 | 0.1107 | 6,075.2038 |
| Mobile | 74.2009 | 123.9998 | 689.8705 | 1.9382 | 120.4148 | 3.4008 | 123.8156 | 32.1339 | 3.1367 | 35.2706 | | 138,598.5838 | 138,598.5838 | 3.7988 | | 138,678.3583 |
| Total | 137.6829 | 129.9273 | 793.4212 | 1.9737 | 120.4148 | 5.8309 | 126.2457 | 32.1339 | 5.5512 | 37.6851 | 0.0000 | 168,262.2865 | 168,262.2865 | 4.5382 | 0.5405 | 168,525.1385 |

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 | 53.6162 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |
| Energy | 0.4396 | 3.7801 | 1.7702 | 0.0240 | | 0.3037 | 0.3037 | | 0.3037 | 0.3037 | | 4,795.7662 | 4,795.7662 | 0.0919 | 0.0879 | 4,824.9524 |
| Mobile | 69.6936 | 94.0481 | 555.1443 | 1.1914 | 71.0677 | 2.1870 | 73.2546 | 18.9651 | 2.0180 | 20.9831 | | 85,216.8239 | 85,216.8239 | 2.4266 | | 85,267.7825 |
| Total | 123.7494 | 98.9956 | 658.2330 | 1.2207 | 71.0677 | 4.5384 | 75.6061 | 18.9651 | 4.3538 | 23.3189 | 0.0000 | 113,637.8380 | 113,637.8380 | 3.1422 | 0.5177 | 113,864.3112 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|-------|-------|-------|-------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------|------|-------|
| Percent Reduction | 10.12 | 23.81 | 17.04 | 38.15 | 40.98 | 22.17 | 40.11 | 40.98 | 21.57 | 38.12 | 0.00 | 32.46 | 32.46 | 30.76 | 4.22 | 32.43 |

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 | 3/15/2017 | 1/15/2018 | 5 | 219 | |
| 2 | Grading | Grading | 1/16/2018 | 5/13/2019 | 5 | 345 | |
| 3 | Building Construction | Building Construction | 5/14/2019 | 4/5/2033 | 5 | 3626 | |
| 4 | Paving | Paving | 4/6/2033 | 3/3/2034 | 5 | 238 | |
| 5 | Architectural Coating | Architectural Coating | 3/4/2034 | 1/31/2035 | 5 | 238 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 1,845,000; Residential Outdoor: 621,665; Non-Residential Indoor: 1,200,000; Non-Residential Outdoor: 406,665
(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 |
| 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 | 2,326.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 1,188.00 | 281.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 238.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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 | | | | | 2.3131 | 0.0000 | 2.3131 | 0.3502 | 0.0000 | 0.3502 | | | 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 | 2.3131 | 2.1252 | 4.4383 | 0.3502 | 1.9797 | 2.3299 | | 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 | 0.1731 | 2.1609 | 2.2346 | 7.5000e-003 | 0.1935 | 0.0535 | 0.2470 | 0.0529 | 0.0493 | 0.1021 | | 743.9514 | 743.9514 | 4.0800e-003 | | 744.0370 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0528 | 0.0535 | 0.6592 | 1.4800e-003 | 0.1255 | 7.7000e-004 | 0.1263 | 0.0333 | 7.1000e-004 | 0.0340 | | 116.5033 | 116.5033 | 5.5200e-003 | | 116.6193 |
| Total | 0.2259 | 2.2144 | 2.8938 | 8.9800e-003 | 0.3190 | 0.0543 | 0.3733 | 0.0862 | 0.0500 | 0.1361 | | 860.4547 | 860.4547 | 9.6000e-003 | | 860.6562 |

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 | | | | | 0.9021 | 0.0000 | 0.9021 | 0.1366 | 0.0000 | 0.1366 | | | 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 | 0.9021 | 2.1252 | 3.0273 | 0.1366 | 1.9797 | 2.1163 | 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 | 0.1731 | 2.1609 | 2.2346 | 7.5000e-003 | 0.1935 | 0.0535 | 0.2470 | 0.0529 | 0.0493 | 0.1021 | | 743.9514 | 743.9514 | 4.0800e-003 | | 744.0370 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0528 | 0.0535 | 0.6592 | 1.4800e-003 | 0.1255 | 7.7000e-004 | 0.1263 | 0.0333 | 7.1000e-004 | 0.0340 | | 116.5033 | 116.5033 | 5.5200e-003 | | 116.6193 |
| Total | 0.2259 | 2.2144 | 2.8938 | 8.9800e-003 | 0.3190 | 0.0543 | 0.3733 | 0.0862 | 0.0500 | 0.1361 | | 860.4547 | 860.4547 | 9.6000e-003 | | 860.6562 |

3.2 Demolition - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.3131 | 0.0000 | 2.3131 | 0.3502 | 0.0000 | 0.3502 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5606 | 36.8310 | 31.7250 | 0.0399 | | 1.8090 | 1.8090 | | 1.6856 | 1.6856 | | 3,983.3282 | 3,983.3282 | 1.1015 | | 4,006.4585 |
| Total | 3.5606 | 36.8310 | 31.7250 | 0.0399 | 2.3131 | 1.8090 | 4.1220 | 0.3502 | 1.6856 | 2.0358 | | 3,983.3282 | 3,983.3282 | 1.1015 | | 4,006.4585 |

3.2 Demolition - 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 | 0.1663 | 1.9577 | 2.1821 | 7.4900e-003 | 2.8413 | 0.0529 | 2.8942 | 0.7028 | 0.0486 | 0.7514 | | 731.0939 | 731.0939 | 4.0500e-003 | | 731.1789 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0477 | 0.0486 | 0.5978 | 1.4800e-003 | 0.1255 | 7.6000e-004 | 0.1263 | 0.0333 | 7.0000e-004 | 0.0340 | | 112.0550 | 112.0550 | 5.1400e-003 | | 112.1629 |
| Total | 0.2139 | 2.0064 | 2.7799 | 8.9700e-003 | 2.9668 | 0.0536 | 3.0205 | 0.7361 | 0.0493 | 0.7854 | | 843.1490 | 843.1490 | 9.1900e-003 | | 843.3418 |

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 | | | | | 0.9021 | 0.0000 | 0.9021 | 0.1366 | 0.0000 | 0.1366 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5606 | 36.8310 | 31.7250 | 0.0399 | | 1.8090 | 1.8090 | | 1.6856 | 1.6856 | 0.0000 | 3,983.328 2 | 3,983.328 2 | 1.1015 | | 4,006.458 5 |
| Total | 3.5606 | 36.8310 | 31.7250 | 0.0399 | 0.9021 | 1.8090 | 2.7110 | 0.1366 | 1.6856 | 1.8222 | 0.0000 | 3,983.328 2 | 3,983.328 2 | 1.1015 | | 4,006.458 5 |

3.2 Demolition - 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 | 0.1663 | 1.9577 | 2.1821 | 7.4900e-003 | 2.8413 | 0.0529 | 2.8942 | 0.7028 | 0.0486 | 0.7514 | | 731.0939 | 731.0939 | 4.0500e-003 | | 731.1789 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0477 | 0.0486 | 0.5978 | 1.4800e-003 | 0.1255 | 7.6000e-004 | 0.1263 | 0.0333 | 7.0000e-004 | 0.0340 | | 112.0550 | 112.0550 | 5.1400e-003 | | 112.1629 |
| Total | 0.2139 | 2.0064 | 2.7799 | 8.9700e-003 | 2.9668 | 0.0536 | 3.0205 | 0.7361 | 0.0493 | 0.7854 | | 843.1490 | 843.1490 | 9.1900e-003 | | 843.3418 |

3.3 Grading - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.8674 | 0.0000 | 6.8674 | 3.4015 | 0.0000 | 3.4015 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.2895 | 59.5338 | 42.3068 | 0.0617 | | 2.7880 | 2.7880 | | 2.5650 | 2.5650 | | 6,212.8042 | 6,212.8042 | 1.9341 | | 6,253.4209 |
| Total | 5.2895 | 59.5338 | 42.3068 | 0.0617 | 6.8674 | 2.7880 | 9.6554 | 3.4015 | 2.5650 | 5.9665 | | 6,212.8042 | 6,212.8042 | 1.9341 | | 6,253.4209 |

3.3 Grading - 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 | 0.0635 | 0.0649 | 0.7970 | 1.9700e-003 | 0.1673 | 1.0200e-003 | 0.1684 | 0.0444 | 9.4000e-004 | 0.0453 | | 149.4067 | 149.4067 | 6.8500e-003 | | 149.5506 |
| Total | 0.0635 | 0.0649 | 0.7970 | 1.9700e-003 | 0.1673 | 1.0200e-003 | 0.1684 | 0.0444 | 9.4000e-004 | 0.0453 | | 149.4067 | 149.4067 | 6.8500e-003 | | 149.5506 |

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 | | | | | 2.6783 | 0.0000 | 2.6783 | 1.3266 | 0.0000 | 1.3266 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.2895 | 59.5338 | 42.3068 | 0.0617 | | 2.7880 | 2.7880 | | 2.5650 | 2.5650 | 0.0000 | 6,212.8041 | 6,212.8041 | 1.9341 | | 6,253.4209 |
| Total | 5.2895 | 59.5338 | 42.3068 | 0.0617 | 2.6783 | 2.7880 | 5.4663 | 1.3266 | 2.5650 | 3.8916 | 0.0000 | 6,212.8041 | 6,212.8041 | 1.9341 | | 6,253.4209 |

3.3 Grading - 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 | 0.0635 | 0.0649 | 0.7970 | 1.9700e-003 | 0.1673 | 1.0200e-003 | 0.1684 | 0.0444 | 9.4000e-004 | 0.0453 | | 149.4067 | 149.4067 | 6.8500e-003 | | 149.5506 |
| Total | 0.0635 | 0.0649 | 0.7970 | 1.9700e-003 | 0.1673 | 1.0200e-003 | 0.1684 | 0.0444 | 9.4000e-004 | 0.0453 | | 149.4067 | 149.4067 | 6.8500e-003 | | 149.5506 |

3.3 Grading - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.8674 | 0.0000 | 6.8674 | 3.4015 | 0.0000 | 3.4015 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.8912 | 54.1978 | 40.2888 | 0.0617 | | 2.5049 | 2.5049 | | 2.3045 | 2.3045 | | 6,111.3121 | 6,111.3121 | 1.9336 | | 6,151.9167 |
| Total | 4.8912 | 54.1978 | 40.2888 | 0.0617 | 6.8674 | 2.5049 | 9.3723 | 3.4015 | 2.3045 | 5.7060 | | 6,111.3121 | 6,111.3121 | 1.9336 | | 6,151.9167 |

3.3 Grading - 2019

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | 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 | 0.0584 | 0.0595 | 0.7381 | 1.9700e-003 | 0.1673 | 1.0300e-003 | 0.1684 | 0.0444 | 9.5000e-004 | 0.0453 | | 143.7805 | 143.7805 | 6.4700e-003 | | 143.9164 |
| Total | 0.0584 | 0.0595 | 0.7381 | 1.9700e-003 | 0.1673 | 1.0300e-003 | 0.1684 | 0.0444 | 9.5000e-004 | 0.0453 | | 143.7805 | 143.7805 | 6.4700e-003 | | 143.9164 |

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 | | | | | 2.6783 | 0.0000 | 2.6783 | 1.3266 | 0.0000 | 1.3266 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.8912 | 54.1978 | 40.2888 | 0.0617 | | 2.5049 | 2.5049 | | 2.3045 | 2.3045 | 0.0000 | 6,111.3121 | 6,111.3121 | 1.9336 | | 6,151.9167 |
| Total | 4.8912 | 54.1978 | 40.2888 | 0.0617 | 2.6783 | 2.5049 | 5.1832 | 1.3266 | 2.3045 | 3.6311 | 0.0000 | 6,111.3121 | 6,111.3121 | 1.9336 | | 6,151.9167 |

3.3 Grading - 2019

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|------|-----------------|
| Category | 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 | 0.0584 | 0.0595 | 0.7381 | 1.9700e-003 | 0.1673 | 1.0300e-003 | 0.1684 | 0.0444 | 9.5000e-004 | 0.0453 | | 143.7805 | 143.7805 | 6.4700e-003 | | | 143.9164 |
| Total | 0.0584 | 0.0595 | 0.7381 | 1.9700e-003 | 0.1673 | 1.0300e-003 | 0.1684 | 0.0444 | 9.5000e-004 | 0.0453 | | 143.7805 | 143.7805 | 6.4700e-003 | | | 143.9164 |

3.4 Building Construction - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 2.3516 | 20.9650 | 17.1204 | 0.0268 | | 1.2850 | 1.2850 | | 1.2083 | 1.2083 | | 2,580.7618 | 2,580.7618 | 0.6279 | | | 2,593.9479 |
| Total | 2.3516 | 20.9650 | 17.1204 | 0.0268 | | 1.2850 | 1.2850 | | 1.2083 | 1.2083 | | 2,580.7618 | 2,580.7618 | 0.6279 | | | 2,593.9479 |

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|------|--------------------|
| Category | 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 | 2.1572 | 15.0784 | 29.1390 | 0.0466 | 1.3706 | 0.3295 | 1.7001 | 0.3895 | 0.3031 | 0.6926 | | 4,434.7758 | 4,434.7758 | 0.0284 | | | 4,435.3719 |
| Worker | 3.4710 | 3.5357 | 43.8425 | 0.1170 | 9.9397 | 0.0611 | 10.0007 | 2.6364 | 0.0566 | 2.6930 | | 8,540.5615 | 8,540.5615 | 0.3843 | | | 8,548.6324 |
| Total | 5.6282 | 18.6141 | 72.9816 | 0.1636 | 11.3103 | 0.3906 | 11.7008 | 3.0259 | 0.3597 | 3.3856 | | 12,975.3373 | 12,975.3373 | 0.4127 | | | 12,984.0044 |

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 | 2.3516 | 20.9650 | 17.1204 | 0.0268 | | 1.2850 | 1.2850 | | 1.2083 | 1.2083 | 0.0000 | 2,580.7618 | 2,580.7618 | 0.6279 | | | 2,593.9479 |
| Total | 2.3516 | 20.9650 | 17.1204 | 0.0268 | | 1.2850 | 1.2850 | | 1.2083 | 1.2083 | 0.0000 | 2,580.7618 | 2,580.7618 | 0.6279 | | | 2,593.9479 |

3.4 Building Construction - 2019

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|------|--------------------|
| Category | 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 | 2.1572 | 15.0784 | 29.1390 | 0.0466 | 1.3706 | 0.3295 | 1.7001 | 0.3895 | 0.3031 | 0.6926 | | 4,434.7758 | 4,434.7758 | 0.0284 | | | 4,435.3719 |
| Worker | 3.4710 | 3.5357 | 43.8425 | 0.1170 | 9.9397 | 0.0611 | 10.0007 | 2.6364 | 0.0566 | 2.6930 | | 8,540.5615 | 8,540.5615 | 0.3843 | | | 8,548.6324 |
| Total | 5.6282 | 18.6141 | 72.9816 | 0.1636 | 11.3103 | 0.3906 | 11.7008 | 3.0259 | 0.3597 | 3.3856 | | 12,975.3373 | 12,975.3373 | 0.4127 | | | 12,984.0044 |

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 | 1.8667 | 12.8295 | 26.4677 | 0.0464 | 1.3704 | 0.2957 | 1.6662 | 0.3894 | 0.2721 | 0.6615 | | 4,332.1784 | 4,332.1784 | 0.0272 | | | 4,332.7494 |
| Worker | 3.2244 | 3.2788 | 40.7771 | 0.1170 | 9.9397 | 0.0617 | 10.0013 | 2.6364 | 0.0572 | 2.6936 | | 8,191.7066 | 8,191.7066 | 0.3644 | | | 8,199.3580 |
| Total | 5.0911 | 16.1083 | 67.2448 | 0.1635 | 11.3101 | 0.3574 | 11.6675 | 3.0259 | 0.3293 | 3.3551 | | 12,523.8850 | 12,523.8850 | 0.3916 | | | 12,532.1075 |

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 | 2.1113 | 19.0839 | 16.8084 | 0.0268 | | 1.1128 | 1.1128 | | 1.0465 | 1.0465 | 0.0000 | 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 | 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 | 1.8667 | 12.8295 | 26.4677 | 0.0464 | 1.3704 | 0.2957 | 1.6662 | 0.3894 | 0.2721 | 0.6615 | | 4,332.1784 | 4,332.1784 | 0.0272 | | | 4,332.7494 |
| Worker | 3.2244 | 3.2788 | 40.7771 | 0.1170 | 9.9397 | 0.0617 | 10.0013 | 2.6364 | 0.0572 | 2.6936 | | 8,191.7066 | 8,191.7066 | 0.3644 | | | 8,199.3580 |
| Total | 5.0911 | 16.1083 | 67.2448 | 0.1635 | 11.3101 | 0.3574 | 11.6675 | 3.0259 | 0.3293 | 3.3551 | | 12,523.8850 | 12,523.8850 | 0.3916 | | | 12,532.1075 |

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 | 1.7245 | 10.5572 | 24.9277 | 0.0464 | 1.3704 | 0.2548 | 1.6252 | 0.3894 | 0.2344 | 0.6238 | | 4,326.723 2 | 4,326.723 2 | 0.0275 | | | 4,327.300 4 |
| Worker | 3.0337 | 3.0717 | 38.7447 | 0.1173 | 9.9397 | 0.0632 | 10.0028 | 2.6364 | 0.0586 | 2.6950 | | 8,066.004 9 | 8,066.004 9 | 0.3527 | | | 8,073.411 8 |
| Total | 4.7582 | 13.6288 | 63.6724 | 0.1636 | 11.3101 | 0.3180 | 11.6280 | 3.0259 | 0.2930 | 3.3189 | | 12,392.72 81 | 12,392.72 81 | 0.3802 | | | 12,400.71 22 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.8931 | 17.3403 | 16.5376 | 0.0268 | | 0.9549 | 0.9549 | | 0.8979 | 0.8979 | 0.0000 | 2,542.781 7 | 2,542.781 7 | 0.6126 | | | 2,555.646 2 |
| Total | 1.8931 | 17.3403 | 16.5376 | 0.0268 | | 0.9549 | 0.9549 | | 0.8979 | 0.8979 | 0.0000 | 2,542.781 7 | 2,542.781 7 | 0.6126 | | | 2,555.646 2 |

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 | 1.7245 | 10.5572 | 24.9277 | 0.0464 | 1.3704 | 0.2548 | 1.6252 | 0.3894 | 0.2344 | 0.6238 | | 4,326.723 2 | 4,326.723 2 | 0.0275 | | | 4,327.300 4 |
| Worker | 3.0337 | 3.0717 | 38.7447 | 0.1173 | 9.9397 | 0.0632 | 10.0028 | 2.6364 | 0.0586 | 2.6950 | | 8,066.004 9 | 8,066.004 9 | 0.3527 | | | 8,073.411 8 |
| Total | 4.7582 | 13.6288 | 63.6724 | 0.1636 | 11.3101 | 0.3180 | 11.6280 | 3.0259 | 0.2930 | 3.3189 | | 12,392.72 81 | 12,392.72 81 | 0.3802 | | | 12,400.71 22 |

3.4 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.6992 | 15.5364 | 16.3276 | 0.0268 | | 0.8057 | 0.8057 | | 0.7581 | 0.7581 | | 2,543.749 7 | 2,543.749 7 | 0.6085 | | | 2,556.528 6 |
| Total | 1.6992 | 15.5364 | 16.3276 | 0.0268 | | 0.8057 | 0.8057 | | 0.7581 | 0.7581 | | 2,543.749 7 | 2,543.749 7 | 0.6085 | | | 2,556.528 6 |

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------------|-------------------------|---------------|-----|------|-------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 1.6539 | 9.4660 | 24.2001 | 0.0463 | 1.3704 | 0.2508 | 1.6212 | 0.3894 | 0.2308 | 0.6202 | | 4,322.095 1 | 4,322.095 1 | 0.0280 | | | 4,322.682 7 |
| Worker | 2.8564 | 2.8927 | 36.5449 | 0.1173 | 9.9397 | 0.0639 | 10.0036 | 2.6364 | 0.0593 | 2.6957 | | 7,938.959 5 | 7,938.959 5 | 0.3391 | | | 7,946.080 2 |
| Total | 4.5103 | 12.3587 | 60.7450 | 0.1636 | 11.3100 | 0.3147 | 11.6248 | 3.0259 | 0.2901 | 3.3159 | | 12,261.05 46 | 12,261.05 46 | 0.3671 | | | 12,268.76 29 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.6992 | 15.5364 | 16.3276 | 0.0268 | | 0.8057 | 0.8057 | | 0.7581 | 0.7581 | 0.0000 | 2,543.749 7 | 2,543.749 7 | 0.6085 | | | 2,556.528 6 |
| Total | 1.6992 | 15.5364 | 16.3276 | 0.0268 | | 0.8057 | 0.8057 | | 0.7581 | 0.7581 | 0.0000 | 2,543.749 7 | 2,543.749 7 | 0.6085 | | | 2,556.528 6 |

3.4 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------------|-------------------------|---------------|-----|------|-------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 1.6539 | 9.4660 | 24.2001 | 0.0463 | 1.3704 | 0.2508 | 1.6212 | 0.3894 | 0.2308 | 0.6202 | | 4,322.095 1 | 4,322.095 1 | 0.0280 | | | 4,322.682 7 |
| Worker | 2.8564 | 2.8927 | 36.5449 | 0.1173 | 9.9397 | 0.0639 | 10.0036 | 2.6364 | 0.0593 | 2.6957 | | 7,938.959 5 | 7,938.959 5 | 0.3391 | | | 7,946.080 2 |
| Total | 4.5103 | 12.3587 | 60.7450 | 0.1636 | 11.3100 | 0.3147 | 11.6248 | 3.0259 | 0.2901 | 3.3159 | | 12,261.05 46 | 12,261.05 46 | 0.3671 | | | 12,268.76 29 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.5661 | 14.3126 | 16.2093 | 0.0268 | | 0.6967 | 0.6967 | | 0.6557 | 0.6557 | | 2,544.626 2 | 2,544.626 2 | 0.6044 | | | 2,557.319 1 |
| Total | 1.5661 | 14.3126 | 16.2093 | 0.0268 | | 0.6967 | 0.6967 | | 0.6557 | 0.6557 | | 2,544.626 2 | 2,544.626 2 | 0.6044 | | | 2,557.319 1 |

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 1.5238 | 8.3256 | 23.0158 | 0.0462 | 1.3704 | 0.2408 | 1.6112 | 0.3894 | 0.2215 | 0.6110 | | 4,312.2350 | 4,312.2350 | 0.0263 | | | 4,312.7867 |
| Worker | 2.6980 | 2.7400 | 34.6237 | 0.1172 | 9.9397 | 0.0646 | 10.0043 | 2.6364 | 0.0600 | 2.6964 | | 7,827.0720 | 7,827.0720 | 0.3276 | | | 7,833.9509 |
| Total | 4.2218 | 11.0656 | 57.6395 | 0.1634 | 11.3100 | 0.3054 | 11.6154 | 3.0258 | 0.2815 | 3.3073 | | 12,139.3070 | 12,139.3070 | 0.3538 | | | 12,146.7376 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.5661 | 14.3126 | 16.2093 | 0.0268 | | 0.6967 | 0.6967 | | 0.6557 | 0.6557 | 0.0000 | 2,544.6262 | 2,544.6262 | 0.6044 | | | 2,557.3191 |
| Total | 1.5661 | 14.3126 | 16.2093 | 0.0268 | | 0.6967 | 0.6967 | | 0.6557 | 0.6557 | 0.0000 | 2,544.6262 | 2,544.6262 | 0.6044 | | | 2,557.3191 |

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 1.5238 | 8.3256 | 23.0158 | 0.0462 | 1.3704 | 0.2408 | 1.6112 | 0.3894 | 0.2215 | 0.6110 | | 4,312.2350 | 4,312.2350 | 0.0263 | | 4,312.7867 |
| Worker | 2.6980 | 2.7400 | 34.6237 | 0.1172 | 9.9397 | 0.0646 | 10.0043 | 2.6364 | 0.0600 | 2.6964 | | 7,827.0720 | 7,827.0720 | 0.3276 | | 7,833.9509 |
| Total | 4.2218 | 11.0656 | 57.6395 | 0.1634 | 11.3100 | 0.3054 | 11.6154 | 3.0258 | 0.2815 | 3.3073 | | 12,139.3070 | 12,139.3070 | 0.3538 | | 12,146.7376 |

3.4 Building Construction - 2024

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 | 1.4653 | 13.3774 | 16.1332 | 0.0268 | | 0.6106 | 0.6106 | | 0.5744 | 0.5744 | | 2,545.1154 | 2,545.1154 | 0.6009 | | 2,557.7349 |
| Total | 1.4653 | 13.3774 | 16.1332 | 0.0268 | | 0.6106 | 0.6106 | | 0.5744 | 0.5744 | | 2,545.1154 | 2,545.1154 | 0.6009 | | 2,557.7349 |

3.4 Building Construction - 2024

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 | 1.4761 | 8.2598 | 22.2158 | 0.0463 | 1.3703 | 0.2356 | 1.6059 | 0.3894 | 0.2168 | 0.6062 | | 4,327.0249 | 4,327.0249 | 0.0270 | | | 4,327.5910 |
| Worker | 2.5807 | 2.6320 | 33.7132 | 0.1189 | 9.9397 | 0.0674 | 10.0070 | 2.6364 | 0.0625 | 2.6989 | | 7,837.3297 | 7,837.3297 | 0.3288 | | | 7,844.2336 |
| Total | 4.0567 | 10.8918 | 55.9291 | 0.1652 | 11.3100 | 0.3030 | 11.6129 | 3.0258 | 0.2793 | 3.3051 | | 12,164.3545 | 12,164.3545 | 0.3557 | | | 12,171.8246 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.4653 | 13.3774 | 16.1332 | 0.0268 | | 0.6106 | 0.6106 | | 0.5744 | 0.5744 | 0.0000 | 2,545.1154 | 2,545.1154 | 0.6009 | | | 2,557.7349 |
| Total | 1.4653 | 13.3774 | 16.1332 | 0.0268 | | 0.6106 | 0.6106 | | 0.5744 | 0.5744 | 0.0000 | 2,545.1154 | 2,545.1154 | 0.6009 | | | 2,557.7349 |

3.4 Building Construction - 2024

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 | 1.4761 | 8.2598 | 22.2158 | 0.0463 | 1.3703 | 0.2356 | 1.6059 | 0.3894 | 0.2168 | 0.6062 | | 4,327.0249 | 4,327.0249 | 0.0270 | | | 4,327.5910 |
| Worker | 2.5807 | 2.6320 | 33.7132 | 0.1189 | 9.9397 | 0.0674 | 10.0070 | 2.6364 | 0.0625 | 2.6989 | | 7,837.3297 | 7,837.3297 | 0.3288 | | | 7,844.2336 |
| Total | 4.0567 | 10.8918 | 55.9291 | 0.1652 | 11.3100 | 0.3030 | 11.6129 | 3.0258 | 0.2793 | 3.3051 | | 12,164.3545 | 12,164.3545 | 0.3557 | | | 12,171.8246 |

3.4 Building Construction - 2025

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2025

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 | 1.4362 | 8.1873 | 21.8917 | 0.0463 | 1.3703 | 0.2365 | 1.6068 | 0.3894 | 0.2176 | 0.6070 | | 4,326.7157 | 4,326.7157 | 0.0270 | | | 4,327.2829 |
| Worker | 2.4707 | 2.5279 | 32.4710 | 0.1189 | 9.9397 | 0.0681 | 10.0078 | 2.6364 | 0.0632 | 2.6996 | | 7,753.2333 | 7,753.2333 | 0.3208 | | | 7,759.9708 |
| Total | 3.9068 | 10.7151 | 54.3628 | 0.1652 | 11.3100 | 0.3046 | 11.6146 | 3.0258 | 0.2808 | 3.3066 | | 12,079.9490 | 12,079.9490 | 0.3479 | | | 12,087.2537 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2025

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 | 1.4362 | 8.1873 | 21.8917 | 0.0463 | 1.3703 | 0.2365 | 1.6068 | 0.3894 | 0.2176 | 0.6070 | | 4,326.7157 | 4,326.7157 | 0.0270 | | | 4,327.2829 |
| Worker | 2.4707 | 2.5279 | 32.4710 | 0.1189 | 9.9397 | 0.0681 | 10.0078 | 2.6364 | 0.0632 | 2.6996 | | 7,753.2333 | 7,753.2333 | 0.3208 | | | 7,759.9708 |
| Total | 3.9068 | 10.7151 | 54.3628 | 0.1652 | 11.3100 | 0.3046 | 11.6146 | 3.0258 | 0.2808 | 3.3066 | | 12,079.9490 | 12,079.9490 | 0.3479 | | | 12,087.2537 |

3.4 Building Construction - 2026

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2026

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 | 1.3899 | 8.0642 | 21.3271 | 0.0463 | 1.3703 | 0.2338 | 1.6041 | 0.3894 | 0.2151 | 0.6045 | | 4,326.2906 | 4,326.2906 | 0.0268 | | | 4,326.8537 |
| Worker | 2.3781 | 2.4437 | 31.4763 | 0.1188 | 9.9397 | 0.0689 | 10.0086 | 2.6364 | 0.0640 | 2.7004 | | 7,682.7247 | 7,682.7247 | 0.3146 | | | 7,689.3301 |
| Total | 3.7680 | 10.5080 | 52.8034 | 0.1651 | 11.3100 | 0.3028 | 11.6127 | 3.0258 | 0.2791 | 3.3049 | | 12,009.0152 | 12,009.0152 | 0.3414 | | | 12,016.1838 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2026

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 | 1.3899 | 8.0642 | 21.3271 | 0.0463 | 1.3703 | 0.2338 | 1.6041 | 0.3894 | 0.2151 | 0.6045 | | 4,326.2906 | 4,326.2906 | 0.0268 | | | 4,326.8537 |
| Worker | 2.3781 | 2.4437 | 31.4763 | 0.1188 | 9.9397 | 0.0689 | 10.0086 | 2.6364 | 0.0640 | 2.7004 | | 7,682.7247 | 7,682.7247 | 0.3146 | | | 7,689.3301 |
| Total | 3.7680 | 10.5080 | 52.8034 | 0.1651 | 11.3100 | 0.3028 | 11.6127 | 3.0258 | 0.2791 | 3.3049 | | 12,009.0152 | 12,009.0152 | 0.3414 | | | 12,016.1838 |

3.4 Building Construction - 2027

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2027

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 | 1.3813 | 8.0094 | 21.1536 | 0.0463 | 1.3704 | 0.2342 | 1.6046 | 0.3894 | 0.2155 | 0.6049 | | 4,326.4578 | 4,326.4578 | 0.0268 | | | 4,327.0215 |
| Worker | 2.2977 | 2.3708 | 30.6269 | 0.1188 | 9.9397 | 0.0696 | 10.0093 | 2.6364 | 0.0646 | 2.7010 | | 7,622.7434 | 7,622.7434 | 0.3091 | | | 7,629.2334 |
| Total | 3.6790 | 10.3802 | 51.7806 | 0.1651 | 11.3101 | 0.3039 | 11.6139 | 3.0259 | 0.2801 | 3.3060 | | 11,949.2013 | 11,949.2013 | 0.3359 | | | 11,956.2549 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2027

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 | 1.3813 | 8.0094 | 21.1536 | 0.0463 | 1.3704 | 0.2342 | 1.6046 | 0.3894 | 0.2155 | 0.6049 | | 4,326.4578 | 4,326.4578 | 0.0268 | | | 4,327.0215 |
| Worker | 2.2977 | 2.3708 | 30.6269 | 0.1188 | 9.9397 | 0.0696 | 10.0093 | 2.6364 | 0.0646 | 2.7010 | | 7,622.7434 | 7,622.7434 | 0.3091 | | | 7,629.2334 |
| Total | 3.6790 | 10.3802 | 51.7806 | 0.1651 | 11.3101 | 0.3039 | 11.6139 | 3.0259 | 0.2801 | 3.3060 | | 11,949.2013 | 11,949.2013 | 0.3359 | | | 11,956.2549 |

3.4 Building Construction - 2028

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2028

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 | 1.3599 | 7.9595 | 21.0029 | 0.0463 | 1.3705 | 0.2339 | 1.6043 | 0.3895 | 0.2152 | 0.6046 | | 4,326.5026 | 4,326.5026 | 0.0268 | | | 4,327.0657 |
| Worker | 2.2252 | 2.3065 | 29.8962 | 0.1188 | 9.9397 | 0.0702 | 10.0099 | 2.6364 | 0.0652 | 2.7016 | | 7,572.1664 | 7,572.1664 | 0.3042 | | | 7,578.5545 |
| Total | 3.5851 | 10.2659 | 50.8991 | 0.1651 | 11.3101 | 0.3041 | 11.6142 | 3.0259 | 0.2803 | 3.3062 | | 11,898.6690 | 11,898.6690 | 0.3310 | | | 11,905.6202 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2028

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 | 1.3599 | 7.9595 | 21.0029 | 0.0463 | 1.3705 | 0.2339 | 1.6043 | 0.3895 | 0.2152 | 0.6046 | | 4,326.5026 | 4,326.5026 | 0.0268 | | | 4,327.0657 |
| Worker | 2.2252 | 2.3065 | 29.8962 | 0.1188 | 9.9397 | 0.0702 | 10.0099 | 2.6364 | 0.0652 | 2.7016 | | 7,572.1664 | 7,572.1664 | 0.3042 | | | 7,578.5545 |
| Total | 3.5851 | 10.2659 | 50.8991 | 0.1651 | 11.3101 | 0.3041 | 11.6142 | 3.0259 | 0.2803 | 3.3062 | | 11,898.6690 | 11,898.6690 | 0.3310 | | | 11,905.6202 |

3.4 Building Construction - 2029

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2029

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 | 1.3521 | 7.9221 | 20.8536 | 0.0463 | 1.3705 | 0.2339 | 1.6045 | 0.3895 | 0.2152 | 0.6047 | | 4,326.6502 | 4,326.6502 | 0.0268 | | | 4,327.2134 |
| Worker | 2.1537 | 2.2455 | 29.2010 | 0.1188 | 9.9397 | 0.0707 | 10.0104 | 2.6364 | 0.0656 | 2.7020 | | 7,529.6329 | 7,529.6329 | 0.2995 | | | 7,535.9230 |
| Total | 3.5058 | 10.1676 | 50.0546 | 0.1651 | 11.3102 | 0.3047 | 11.6148 | 3.0259 | 0.2808 | 3.3068 | | 11,856.2831 | 11,856.2831 | 0.3264 | | | 11,863.1363 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2029

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 | 1.3521 | 7.9221 | 20.8536 | 0.0463 | 1.3705 | 0.2339 | 1.6045 | 0.3895 | 0.2152 | 0.6047 | | 4,326.650 2 | 4,326.650 2 | 0.0268 | | | 4,327.213 4 |
| Worker | 2.1537 | 2.2455 | 29.2010 | 0.1188 | 9.9397 | 0.0707 | 10.0104 | 2.6364 | 0.0656 | 2.7020 | | 7,529.632 9 | 7,529.632 9 | 0.2995 | | | 7,535.923 0 |
| Total | 3.5058 | 10.1676 | 50.0546 | 0.1651 | 11.3102 | 0.3047 | 11.6148 | 3.0259 | 0.2808 | 3.3068 | | 11,856.28 31 | 11,856.28 31 | 0.3264 | | | 11,863.13 63 |

3.4 Building Construction - 2030

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 | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |

3.4 Building Construction - 2030

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 | 1.3437 | 7.8909 | 20.7751 | 0.0463 | 1.3706 | 0.2340 | 1.6046 | 0.3895 | 0.2152 | 0.6048 | | 4,326.7456 | 4,326.7456 | 0.0268 | | | 4,327.3089 |
| Worker | 2.0864 | 2.1900 | 28.5968 | 0.1188 | 9.9397 | 0.0711 | 10.0107 | 2.6364 | 0.0660 | 2.7024 | | 7,494.1304 | 7,494.1304 | 0.2952 | | | 7,500.3304 |
| Total | 3.4301 | 10.0809 | 49.3719 | 0.1651 | 11.3103 | 0.3051 | 11.6153 | 3.0260 | 0.2812 | 3.3072 | | 11,820.8761 | 11,820.8761 | 0.3221 | | | 11,827.6393 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |

3.4 Building Construction - 2030

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 | 1.3437 | 7.8909 | 20.7751 | 0.0463 | 1.3706 | 0.2340 | 1.6046 | 0.3895 | 0.2152 | 0.6048 | | 4,326.7456 | 4,326.7456 | 0.0268 | | | 4,327.3089 |
| Worker | 2.0864 | 2.1900 | 28.5968 | 0.1188 | 9.9397 | 0.0711 | 10.0107 | 2.6364 | 0.0660 | 2.7024 | | 7,494.1304 | 7,494.1304 | 0.2952 | | | 7,500.3304 |
| Total | 3.4301 | 10.0809 | 49.3719 | 0.1651 | 11.3103 | 0.3051 | 11.6153 | 3.0260 | 0.2812 | 3.3072 | | 11,820.8761 | 11,820.8761 | 0.3221 | | | 11,827.6393 |

3.4 Building Construction - 2031

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 | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |

3.4 Building Construction - 2031

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 | 1.3444 | 7.9161 | 20.6442 | 0.0466 | 1.3718 | 0.2248 | 1.5966 | 0.3900 | 0.2069 | 0.5969 | | 4,358.219 1 | 4,358.219 1 | 0.0277 | | | 4,358.800 5 |
| Worker | 2.0490 | 2.1647 | 28.8162 | 0.1216 | 9.9397 | 0.0748 | 10.0144 | 2.6364 | 0.0694 | 2.7058 | | 7,638.626 5 | 7,638.626 5 | 0.3078 | | | 7,645.090 4 |
| Total | 3.3934 | 10.0809 | 49.4604 | 0.1682 | 11.3114 | 0.2996 | 11.6110 | 3.0264 | 0.2762 | 3.3027 | | 11,996.84 56 | 11,996.84 56 | 0.3355 | | | 12,003.89 09 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |

3.4 Building Construction - 2031

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 | 1.3444 | 7.9161 | 20.6442 | 0.0466 | 1.3718 | 0.2248 | 1.5966 | 0.3900 | 0.2069 | 0.5969 | | 4,358.2191 | 4,358.2191 | 0.0277 | | 4,358.8005 |
| Worker | 2.0490 | 2.1647 | 28.8162 | 0.1216 | 9.9397 | 0.0748 | 10.0144 | 2.6364 | 0.0694 | 2.7058 | | 7,638.6265 | 7,638.6265 | 0.3078 | | 7,645.0904 |
| Total | 3.3934 | 10.0809 | 49.4604 | 0.1682 | 11.3114 | 0.2996 | 11.6110 | 3.0264 | 0.2762 | 3.3027 | | 11,996.8456 | 11,996.8456 | 0.3355 | | 12,003.8909 |

3.4 Building Construction - 2032

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 | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | 2,887.2617 |

3.4 Building Construction - 2032

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 | 1.3392 | 7.9100 | 20.5951 | 0.0467 | 1.3729 | 0.2255 | 1.5983 | 0.3905 | 0.2074 | 0.5979 | | 4,362.9539 | 4,362.9539 | 0.0277 | | | 4,363.5362 |
| Worker | 1.9949 | 2.1225 | 28.3715 | 0.1216 | 9.9397 | 0.0750 | 10.0146 | 2.6364 | 0.0696 | 2.7060 | | 7,613.9580 | 7,613.9580 | 0.3046 | | | 7,620.3555 |
| Total | 3.3341 | 10.0326 | 48.9666 | 0.1683 | 11.3125 | 0.3004 | 11.6129 | 3.0269 | 0.2770 | 3.3039 | | 11,976.9120 | 11,976.9120 | 0.3324 | | | 11,983.8917 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |

3.4 Building Construction - 2032

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 | 1.3392 | 7.9100 | 20.5951 | 0.0467 | 1.3729 | 0.2255 | 1.5983 | 0.3905 | 0.2074 | 0.5979 | | 4,362.9539 | 4,362.9539 | 0.0277 | | | 4,363.5362 |
| Worker | 1.9949 | 2.1225 | 28.3715 | 0.1216 | 9.9397 | 0.0750 | 10.0146 | 2.6364 | 0.0696 | 2.7060 | | 7,613.9580 | 7,613.9580 | 0.3046 | | | 7,620.3555 |
| Total | 3.3341 | 10.0326 | 48.9666 | 0.1683 | 11.3125 | 0.3004 | 11.6129 | 3.0269 | 0.2770 | 3.3039 | | 11,976.9120 | 11,976.9120 | 0.3324 | | | 11,983.8917 |

3.4 Building Construction - 2033

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 | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |

3.4 Building Construction - 2033

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 | 1.3297 | 7.8976 | 20.5538 | 0.0467 | 1.3739 | 0.2260 | 1.5999 | 0.3909 | 0.2079 | 0.5988 | | 4,367.1726 | 4,367.1726 | 0.0278 | | | 4,367.7557 |
| Worker | 1.9481 | 2.0863 | 27.9943 | 0.1216 | 9.9397 | 0.0751 | 10.0148 | 2.6364 | 0.0697 | 2.7061 | | 7,593.5864 | 7,593.5864 | 0.3019 | | | 7,599.9259 |
| Total | 3.2778 | 9.9838 | 48.5481 | 0.1683 | 11.3135 | 0.3011 | 11.6146 | 3.0273 | 0.2776 | 3.3049 | | 11,960.7590 | 11,960.7590 | 0.3297 | | | 11,967.6816 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |

3.4 Building Construction - 2033

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 | 1.3297 | 7.8976 | 20.5538 | 0.0467 | 1.3739 | 0.2260 | 1.5999 | 0.3909 | 0.2079 | 0.5988 | | 4,367.1726 | 4,367.1726 | 0.0278 | | | 4,367.7557 |
| Worker | 1.9481 | 2.0863 | 27.9943 | 0.1216 | 9.9397 | 0.0751 | 10.0148 | 2.6364 | 0.0697 | 2.7061 | | 7,593.5864 | 7,593.5864 | 0.3019 | | | 7,599.9259 |
| Total | 3.2778 | 9.9838 | 48.5481 | 0.1683 | 11.3135 | 0.3011 | 11.6146 | 3.0273 | 0.2776 | 3.3049 | | 11,960.7590 | 11,960.7590 | 0.3297 | | | 11,967.6816 |

3.5 Paving - 2033

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 | 1.3549 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |
| Paving | 0.0281 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.3830 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |

3.5 Paving - 2033

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 | 0.0246 | 0.0263 | 0.3535 | 1.5400e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 95.8786 | 95.8786 | 3.8100e-003 | | | 95.9587 |
| Total | 0.0246 | 0.0263 | 0.3535 | 1.5400e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 95.8786 | 95.8786 | 3.8100e-003 | | | 95.9587 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3549 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | 0.0000 | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |
| Paving | 0.0281 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.3830 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | 0.0000 | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |

3.5 Paving - 2033

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 | 0.0246 | 0.0263 | 0.3535 | 1.5400e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 95.8786 | 95.8786 | 3.8100e-003 | | | 95.9587 |
| Total | 0.0246 | 0.0263 | 0.3535 | 1.5400e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 95.8786 | 95.8786 | 3.8100e-003 | | | 95.9587 |

3.5 Paving - 2034

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 | 1.3549 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |
| Paving | 0.0281 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.3830 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |

3.5 Paving - 2034

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Worker | 0.0241 | 0.0260 | 0.3489 | 1.5400e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 95.6646 | 95.6646 | 3.7800e-003 | | | 95.7440 |
| Total | 0.0241 | 0.0260 | 0.3489 | 1.5400e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 95.6646 | 95.6646 | 3.7800e-003 | | | 95.7440 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3549 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | 0.0000 | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |
| Paving | 0.0281 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.3830 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | 0.0000 | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |

3.5 Paving - 2034

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Worker | 0.0241 | 0.0260 | 0.3489 | 1.5400e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 95.6646 | 95.6646 | 3.7800e-003 | | | 95.7440 |
| Total | 0.0241 | 0.0260 | 0.3489 | 1.5400e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 95.6646 | 95.6646 | 3.7800e-003 | | | 95.7440 |

3.6 Architectural Coating - 2034

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 | 39.6636 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 0.1308 | 0.8563 | 1.7977 | 2.9700e-003 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | | 281.4481 | 281.4481 | 0.0114 | | | 281.6873 |
| Total | 39.7944 | 0.8563 | 1.7977 | 2.9700e-003 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | | 281.4481 | 281.4481 | 0.0114 | | | 281.6873 |

3.6 Architectural Coating - 2034

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 | 0.3816 | 0.4119 | 5.5363 | 0.0244 | 1.9913 | 0.0151 | 2.0063 | 0.5282 | 0.0140 | 0.5422 | | 1,517.8785 | 1,517.8785 | 0.0600 | | | 1,519.1374 |
| Total | 0.3816 | 0.4119 | 5.5363 | 0.0244 | 1.9913 | 0.0151 | 2.0063 | 0.5282 | 0.0140 | 0.5422 | | 1,517.8785 | 1,517.8785 | 0.0600 | | | 1,519.1374 |

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 | 39.6636 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 | |
| Off-Road | 0.1308 | 0.8563 | 1.7977 | 2.9700e-003 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | 0.0000 | 281.4481 | 281.4481 | 0.0114 | | | 281.6873 |
| Total | 39.7944 | 0.8563 | 1.7977 | 2.9700e-003 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | 0.0000 | 281.4481 | 281.4481 | 0.0114 | | | 281.6873 |

3.6 Architectural Coating - 2034

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 | 0.3816 | 0.4119 | 5.5363 | 0.0244 | 1.9913 | 0.0151 | 2.0063 | 0.5282 | 0.0140 | 0.5422 | | 1,517.8785 | 1,517.8785 | 0.0600 | | | 1,519.1374 |
| Total | 0.3816 | 0.4119 | 5.5363 | 0.0244 | 1.9913 | 0.0151 | 2.0063 | 0.5282 | 0.0140 | 0.5422 | | 1,517.8785 | 1,517.8785 | 0.0600 | | | 1,519.1374 |

3.6 Architectural Coating - 2035

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 | 39.6636 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 0.1179 | 0.7577 | 1.7943 | 2.9700e-003 | | 9.9000e-003 | 9.9000e-003 | | 9.9000e-003 | 9.9000e-003 | | 281.4481 | 281.4481 | 0.0104 | | | 281.6665 |
| Total | 39.7815 | 0.7577 | 1.7943 | 2.9700e-003 | | 9.9000e-003 | 9.9000e-003 | | 9.9000e-003 | 9.9000e-003 | | 281.4481 | 281.4481 | 0.0104 | | | 281.6665 |

3.6 Architectural Coating - 2035

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 | 0.3741 | 0.4072 | 5.4739 | 0.0244 | 1.9913 | 0.0151 | 2.0064 | 0.5282 | 0.0140 | 0.5422 | | 1,515.0926 | 1,515.0926 | 0.0595 | | | 1,516.3417 |
| Total | 0.3741 | 0.4072 | 5.4739 | 0.0244 | 1.9913 | 0.0151 | 2.0064 | 0.5282 | 0.0140 | 0.5422 | | 1,515.0926 | 1,515.0926 | 0.0595 | | | 1,516.3417 |

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 | 39.6636 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 0.1179 | 0.7577 | 1.7943 | 2.9700e-003 | | 9.9000e-003 | 9.9000e-003 | | 9.9000e-003 | 9.9000e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0104 | | | 281.6665 |
| Total | 39.7815 | 0.7577 | 1.7943 | 2.9700e-003 | | 9.9000e-003 | 9.9000e-003 | | 9.9000e-003 | 9.9000e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0104 | | | 281.6665 |

3.6 Architectural Coating - 2035

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 | 0.3741 | 0.4072 | 5.4739 | 0.0244 | 1.9913 | 0.0151 | 2.0064 | 0.5282 | 0.0140 | 0.5422 | | 1,515.0926 | 1,515.0926 | 0.0595 | | | 1,516.3417 |
| Total | 0.3741 | 0.4072 | 5.4739 | 0.0244 | 1.9913 | 0.0151 | 2.0064 | 0.5282 | 0.0140 | 0.5422 | | 1,515.0926 | 1,515.0926 | 0.0595 | | | 1,516.3417 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 69.6936 | 94.0481 | 555.1443 | 1.1914 | 71.0677 | 2.1870 | 73.2546 | 18.9651 | 2.0180 | 20.9831 | | 85,216.8239 | 85,216.8239 | 2.4266 | | 85,267.7825 |
| Unmitigated | 74.2009 | 123.9998 | 689.8705 | 1.9382 | 120.4148 | 3.4008 | 123.8156 | 32.1339 | 3.1367 | 35.2706 | | 138,598.5838 | 138,598.5838 | 3.7988 | | 138,678.3583 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|--------------------------|-------------------------|------------------|------------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 7,097.10 | 7,097.10 | 7097.10 | 15,875,652 | 9,369,659 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Regional Shopping Center | 30,848.00 | 30,848.00 | 30848.00 | 40,855,689 | 24,112,638 |
| Total | 37,945.10 | 37,945.10 | 37,945.10 | 56,731,341 | 33,482,296 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 11.00 | 3.50 | 4.50 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 12.50 | 4.20 | 5.40 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Regional Shopping Center | 12.50 | 4.20 | 5.40 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.465965 | 0.065297 | 0.183466 | 0.172527 | 0.024353 | 0.004615 | 0.008261 | 0.065438 | 0.000861 | 0.001949 | 0.002956 | 0.000367 | 0.003945 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.4396 | 3.7801 | 1.7702 | 0.0240 | | 0.3037 | 0.3037 | | 0.3037 | 0.3037 | | 4,795.7662 | 4,795.7662 | 0.0919 | 0.0879 | 4,824.9524 |
| NaturalGas Unmitigated | 0.5535 | 4.7600 | 2.2322 | 0.0302 | | 0.3824 | 0.3824 | | 0.3824 | 0.3824 | | 6,038.4548 | 6,038.4548 | 0.1157 | 0.1107 | 6,075.2038 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Regional Shopping Center | 5084.93 | 0.0548 | 0.4985 | 0.4188 | 2.9900e-003 | | 0.0379 | 0.0379 | | 0.0379 | 0.0379 | | 598.2272 | 598.2272 | 0.0115 | 0.0110 | 601.8680 |
| Apartments Low Rise | 46241.9 | 0.4987 | 4.2615 | 1.8134 | 0.0272 | | 0.3446 | 0.3446 | | 0.3446 | 0.3446 | | 5,440.2276 | 5,440.2276 | 0.1043 | 0.0997 | 5,473.3359 |
| 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 | | 0.5535 | 4.7600 | 2.2322 | 0.0302 | | 0.3824 | 0.3824 | | 0.3824 | 0.3824 | | 6,038.4548 | 6,038.4548 | 0.1157 | 0.1107 | 6,075.2038 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Regional Shopping Center | 3.97808 | 0.0429 | 0.3900 | 0.3276 | 2.3400e-003 | | 0.0296 | 0.0296 | | 0.0296 | 0.0296 | | 468.0097 | 468.0097 | 8.9700e-003 | 8.5800e-003 | 470.8579 |
| Apartments Low Rise | 36.7859 | 0.3967 | 3.3901 | 1.4426 | 0.0216 | | 0.2741 | 0.2741 | | 0.2741 | 0.2741 | | 4,327.7565 | 4,327.7565 | 0.0830 | 0.0793 | 4,354.0945 |
| 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 | | 0.4396 | 3.7801 | 1.7702 | 0.0240 | | 0.3037 | 0.3037 | | 0.3037 | 0.3037 | | 4,795.7662 | 4,795.7662 | 0.0919 | 0.0879 | 4,824.9524 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 53.6162 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |
| Unmitigated | 62.9285 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |

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 | 11.9296 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 45.8191 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2.1489 | 1.0000e-004 | 0.1172 | 0.0000 | | 1.4847 | 1.4847 | | 1.4691 | 1.4691 | 0.0000 | 23,442.3529 | 23,442.3529 | 0.4493 | 0.4298 | 23,585.0192 |
| Landscaping | 3.0309 | 1.1674 | 101.2014 | 5.3600e-003 | | 0.5630 | 0.5630 | | 0.5630 | 0.5630 | | 182.8950 | 182.8950 | 0.1744 | | 186.5572 |
| Total | 62.9285 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |

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 | 2.6173 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 45.8191 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2.1489 | 1.0000e-004 | 0.1172 | 0.0000 | | 1.4847 | 1.4847 | | 1.4691 | 1.4691 | 0.0000 | 23,442.3529 | 23,442.3529 | 0.4493 | 0.4298 | 23,585.0192 |
| Landscaping | 3.0309 | 1.1674 | 101.2014 | 5.3600e-003 | | 0.5630 | 0.5630 | | 0.5630 | 0.5630 | | 182.8950 | 182.8950 | 0.1744 | | 186.5572 |
| Total | 53.6162 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy
 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

**6115a The Village Build-Out Plan
Riverside-Salton Sea County, Winter**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------|----------|---------------|-------------|--------------------|------------|
| Other Asphalt Surfaces | 2.55 | Acre | 2.55 | 111,078.00 | 0 |
| Apartments Low Rise | 1,230.00 | Dwelling Unit | 30.02 | 1,230,000.00 | 3518 |
| Regional Shopping Center | 800.00 | 1000sqft | 18.37 | 800,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 15 | | | Operational Year | 2035 |
| Utility Company | Imperial Irrigation District | | | | |
| CO2 Intensity (lb/MWhr) | 1270.9 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Redevelopment= 30.69 acres & Vacant land= 20.25 acre (total site acreage= 50.94). Approximately 5% of the total site on-site roadways/parking.

Construction Phase - Spring 2017 to beginning 2035. Construction timing proportionately based on CalEEMod defaults (4.7% demo, 7.4% grading, 75% building const. (+ 2.7% here as site prep. not needed), 5.1% paving, & 5.1% ac).

Demolition - Demolition of 511,456 SF

Grading - Site is a total of 50.94 acres.

Architectural Coating - SCAQMD Rule 1113 limits architectural coating to 50 g/L VOC. CalEEMod Appendix A calculations res. int. 1,845,000 ext. 621,665 & non-res 1,200,000 int. 406,665 ext. Ext. includes 6% of paved areas.

Vehicle Trips - As per TIA, trip generation is 38.56 trips per TSF for retail & 5.77 trips per DU for residential (includes the 13% reduction from intenal trips).

Woodstoves - SCAQMD Rule 445 prohibits permanently installed wood burning devices in new developments.

Area Coating - SCAQMD Rule 1115 limits architectural coating to 50 g/L VOC. CalEEMod Appendix A, non-res. int. 1,200,000 ext. 406,665 & residential int. 1,845,000 ext. 621,665. Ext. includes 6% paved areas.

Construction Off-road Equipment Mitigation -

Area Mitigation - SCAQMD Rule 1115 limits all architectural coating to 50 g/L VOC.

Energy Mitigation - 2013 Title 24 standards for residential are 25% more efficient than 2008 standards. Energy Star appliances to be installed on-site as needed. install high efficiency lighting that is at least 10% better than Title 24 requires.

Water Mitigation - Per Green Building Standards. Water-efficient landscaping installed per City requirements.

Waste Mitigation - AB 341 requires diversion of at least 75% of its waste away from landfills by 2020.

Sequestration -

Mobile Land Use Mitigation - 26.47 du/acre. 87 jobs per job acre. diversity = mix of residential, OS and commercial uses. 0.22 miles from Calle Tampico. Adjacent to at least 2 Sunline bus stops route 70 on Avenida Bermudas and Calle Sinaloa. Sidewalks connecting on and off-site.

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|--------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 455,539.00 | 406,665.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 1,366,617.00 | 1,200,000.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 830,250.00 | 621,665.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 2,490,750.00 | 1,845,000.00 |
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |

| | | | |
|---------------------------|---|----------|----------|
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 50 |
| tblAreaCoating | Area_Nonresidential_Interior | 1366617 | 1200000 |
| tblAreaCoating | Area_Residential_Exterior | 830250 | 621665 |
| tblAreaCoating | Area_Residential_Interior | 2490750 | 1845000 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 250 | 50 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 250 | 50 |
| tblAreaMitigation | UseLowVOCPaintResidentialInteriorValue | 250 | 50 |
| tblConstructionPhase | NumDays | 75.00 | 238.00 |
| tblConstructionPhase | NumDays | 1,110.00 | 3,626.00 |
| tblConstructionPhase | NumDays | 70.00 | 219.00 |
| tblConstructionPhase | NumDays | 110.00 | 345.00 |
| tblConstructionPhase | NumDays | 75.00 | 238.00 |
| tblFireplaces | NumberGas | 984.00 | 1,107.00 |
| tblFireplaces | NumberWood | 123.00 | 0.00 |
| tblGrading | AcresOfGrading | 862.50 | 275.00 |
| tblLandUse | LotAcreage | 76.88 | 30.02 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblVehicleTrips | ST_TR | 7.16 | 5.77 |
| tblVehicleTrips | ST_TR | 49.97 | 38.56 |
| tblVehicleTrips | SU_TR | 6.07 | 5.77 |
| tblVehicleTrips | SU_TR | 25.24 | 38.56 |
| tblVehicleTrips | WD_TR | 6.59 | 5.77 |
| tblVehicleTrips | WD_TR | 42.94 | 38.56 |
| tblWoodstoves | NumberCatalytic | 61.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 61.50 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2017 | 4.2755 | 45.0612 | 37.2169 | 0.0488 | 2.6321 | 2.1796 | 4.8117 | 0.4364 | 2.0298 | 2.4661 | 0.0000 | 4,886.9473 | 4,886.9473 | 1.1170 | 0.0000 | 4,910.4043 |
| 2018 | 5.3361 | 59.6036 | 42.9677 | 0.0636 | 7.0348 | 2.7890 | 9.8238 | 3.4459 | 2.5659 | 6.0118 | 0.0000 | 6,351.7809 | 6,351.7809 | 1.9410 | 0.0000 | 6,392.5415 |
| 2019 | 7.2951 | 54.2617 | 91.8186 | 0.1817 | 11.3103 | 2.5060 | 12.9899 | 3.4459 | 2.3055 | 5.7514 | 0.0000 | 14,910.1098 | 14,910.1098 | 1.9400 | 0.0000 | 14,950.8503 |
| 2020 | 6.5629 | 36.0063 | 86.3983 | 0.1816 | 11.3101 | 1.4736 | 12.7836 | 3.0259 | 1.3788 | 4.4046 | 0.0000 | 14,445.0424 | 14,445.0424 | 1.0125 | 0.0000 | 14,466.3043 |
| 2021 | 6.0522 | 31.6569 | 82.7621 | 0.1817 | 11.3100 | 1.2757 | 12.5857 | 3.0259 | 1.1934 | 4.2193 | 0.0000 | 14,322.3247 | 14,322.3247 | 0.9943 | 0.0000 | 14,343.2055 |
| 2022 | 5.6514 | 28.5162 | 79.6637 | 0.1817 | 11.3100 | 1.1232 | 12.4332 | 3.0259 | 1.0507 | 4.0765 | 0.0000 | 14,199.9920 | 14,199.9920 | 0.9772 | 0.0000 | 14,220.5126 |
| 2023 | 5.2607 | 25.9092 | 76.2099 | 0.1815 | 11.3100 | 1.0041 | 12.3141 | 3.0258 | 0.9389 | 3.9648 | 0.0000 | 14,086.3152 | 14,086.3152 | 0.9598 | 0.0000 | 14,106.4715 |
| 2024 | 5.0199 | 24.7829 | 74.0927 | 0.1832 | 11.3100 | 0.9155 | 12.2254 | 3.0258 | 0.8554 | 3.8812 | 0.0000 | 14,110.6349 | 14,110.6349 | 0.9582 | 0.0000 | 14,130.7573 |
| 2025 | 4.7942 | 23.6229 | 72.5143 | 0.1832 | 11.3099 | 0.8316 | 12.1415 | 3.0258 | 0.7765 | 3.8023 | 0.0000 | 14,032.5158 | 14,032.5158 | 0.9469 | 0.0000 | 14,052.4014 |
| 2026 | 4.6730 | 23.3981 | 70.8064 | 0.1831 | 11.3100 | 0.8297 | 12.1397 | 3.0258 | 0.7748 | 3.8006 | 0.0000 | 13,966.3313 | 13,966.3313 | 0.9405 | 0.0000 | 13,986.0808 |
| 2027 | 4.6059 | 23.2592 | 69.8573 | 0.1831 | 11.3100 | 0.8308 | 12.1408 | 3.0259 | 0.7758 | 3.8016 | 0.0000 | 13,910.5216 | 13,910.5216 | 0.9350 | 0.0000 | 13,930.1562 |
| 2028 | 4.5322 | 23.1351 | 69.0390 | 0.1831 | 11.3101 | 0.8310 | 12.1412 | 3.0259 | 0.7760 | 3.8019 | 0.0000 | 13,863.3070 | 13,863.3070 | 0.9301 | 0.0000 | 13,882.8391 |
| 2029 | 4.4743 | 23.0284 | 68.2562 | 0.1831 | 11.3102 | 0.8316 | 12.1418 | 3.0259 | 0.7765 | 3.8024 | 0.0000 | 13,823.6292 | 13,823.6292 | 0.9254 | 0.0000 | 13,843.0634 |
| 2030 | 4.3624 | 18.4425 | 67.7248 | 0.1871 | 11.3103 | 0.4546 | 11.7648 | 3.0260 | 0.4306 | 3.4565 | 0.0000 | 14,129.3709 | 14,129.3709 | 0.4394 | 0.0000 | 14,138.5988 |
| 2031 | 4.3406 | 18.4415 | 67.6767 | 0.1900 | 11.3114 | 0.4491 | 11.7605 | 3.0264 | 0.4256 | 3.4520 | 0.0000 | 14,293.2551 | 14,293.2551 | 0.4529 | 0.0000 | 14,302.7651 |

| | ROG | NOx | CO | SO2 | 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 | | | | | |
| 2032 | 4.2987 | 18.3889 | 67.2360 | 0.1900 | 11.3125 | 0.4499 | 11.7625 | 3.0269 | 0.4263 | 3.4532 | 0.0000 | 14,274.9029 | 14,274.9029 | 0.4497 | 0.0000 | 14,284.3474 |
| 2033 | 4.2570 | 18.3361 | 66.8603 | 0.1900 | 11.3135 | 0.4506 | 11.7641 | 3.0273 | 0.4270 | 3.4543 | 0.0000 | 14,260.0340 | 14,260.0340 | 0.4470 | 0.0000 | 14,269.4212 |
| 2034 | 40.0896 | 7.0078 | 15.8022 | 0.0289 | 1.9913 | 0.3243 | 2.0266 | 0.5282 | 0.3243 | 0.5625 | 0.0000 | 2,688.8798 | 2,688.8798 | 0.1257 | 0.0000 | 2,691.5186 |
| 2035 | 40.0717 | 1.1926 | 6.2325 | 0.0256 | 1.9913 | 0.0250 | 2.0163 | 0.5282 | 0.0239 | 0.5521 | 0.0000 | 1,689.2753 | 1,689.2753 | 0.0699 | 0.0000 | 1,690.7428 |
| Total | 165.9536 | 504.0511 | 1,213.1356 | 2.9308 | 183.3076 | 19.5747 | 201.7670 | 50.7497 | 18.2555 | 68.7152 | 0.0000 | 228,245.1701 | 228,245.1701 | 16.5625 | 0.0000 | 228,592.9819 |

2.1 Overall Construction (Maximum Daily Emission)

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 | 4.2755 | 45.0612 | 37.2169 | 0.0488 | 1.2211 | 2.1796 | 3.4007 | 0.2227 | 2.0298 | 2.2525 | 0.0000 | 4,886.9473 | 4,886.9473 | 1.1170 | 0.0000 | 4,910.4043 |
| 2018 | 5.3361 | 59.6036 | 42.9677 | 0.0636 | 3.8689 | 2.7890 | 5.7316 | 1.3710 | 2.5659 | 3.9369 | 0.0000 | 6,351.7809 | 6,351.7809 | 1.9410 | 0.0000 | 6,392.5414 |
| 2019 | 7.2951 | 54.2617 | 91.8186 | 0.1817 | 11.3103 | 2.5060 | 12.9899 | 3.0259 | 2.3055 | 4.5976 | 0.0000 | 14,910.1098 | 14,910.1098 | 1.9400 | 0.0000 | 14,950.8503 |
| 2020 | 6.5629 | 36.0063 | 86.3983 | 0.1816 | 11.3101 | 1.4736 | 12.7836 | 3.0259 | 1.3788 | 4.4046 | 0.0000 | 14,445.0424 | 14,445.0424 | 1.0125 | 0.0000 | 14,466.3043 |
| 2021 | 6.0522 | 31.6569 | 82.7621 | 0.1817 | 11.3100 | 1.2757 | 12.5857 | 3.0259 | 1.1934 | 4.2193 | 0.0000 | 14,322.3247 | 14,322.3247 | 0.9943 | 0.0000 | 14,343.2055 |
| 2022 | 5.6514 | 28.5162 | 79.6637 | 0.1817 | 11.3100 | 1.1232 | 12.4332 | 3.0259 | 1.0507 | 4.0765 | 0.0000 | 14,199.9920 | 14,199.9920 | 0.9772 | 0.0000 | 14,220.5126 |
| 2023 | 5.2607 | 25.9092 | 76.2099 | 0.1815 | 11.3100 | 1.0041 | 12.3141 | 3.0258 | 0.9389 | 3.9648 | 0.0000 | 14,086.3152 | 14,086.3152 | 0.9598 | 0.0000 | 14,106.4715 |
| 2024 | 5.0199 | 24.7829 | 74.0927 | 0.1832 | 11.3100 | 0.9155 | 12.2254 | 3.0258 | 0.8554 | 3.8812 | 0.0000 | 14,110.6349 | 14,110.6349 | 0.9582 | 0.0000 | 14,130.7573 |

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 | 62.9285 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |
| Energy | 0.5535 | 4.7600 | 2.2322 | 0.0302 | | 0.3824 | 0.3824 | | 0.3824 | 0.3824 | | 6,038.4548 | 6,038.4548 | 0.1157 | 0.1107 | 6,075.2038 |
| Mobile | 61.4255 | 130.2700 | 759.3672 | 1.8362 | 120.4148 | 3.4214 | 123.8362 | 32.1339 | 3.1557 | 35.2896 | | 131,851.6480 | 131,851.6480 | 3.8214 | | 131,931.8963 |
| Total | 124.9075 | 136.1975 | 862.9179 | 1.8717 | 120.4148 | 5.8516 | 126.2664 | 32.1339 | 5.5702 | 37.7041 | 0.0000 | 161,515.3507 | 161,515.3507 | 4.5608 | 0.5405 | 161,778.6765 |

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 | 53.6162 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |
| Energy | 0.4396 | 3.7801 | 1.7702 | 0.0240 | | 0.3037 | 0.3037 | | 0.3037 | 0.3037 | | 4,795.7662 | 4,795.7662 | 0.0919 | 0.0879 | 4,824.9524 |
| Mobile | 57.2122 | 97.9480 | 651.3287 | 1.1299 | 71.0677 | 2.2076 | 73.2753 | 18.9651 | 2.0370 | 21.0021 | | 81,041.2087 | 81,041.2087 | 2.4492 | | 81,092.6410 |
| Total | 111.2680 | 102.8956 | 754.4174 | 1.1593 | 71.0677 | 4.5591 | 75.6267 | 18.9651 | 4.3728 | 23.3379 | 0.0000 | 109,462.2227 | 109,462.2227 | 3.1648 | 0.5177 | 109,689.1697 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|-------|-------|-------|-------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------|------|-------|
| Percent Reduction | 10.92 | 24.45 | 12.57 | 38.06 | 40.98 | 22.09 | 40.11 | 40.98 | 21.50 | 38.10 | 0.00 | 32.23 | 32.23 | 30.61 | 4.22 | 32.20 |

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 | 3/15/2017 | 1/15/2018 | 5 | 219 | |
| 2 | Grading | Grading | 1/16/2018 | 5/13/2019 | 5 | 345 | |
| 3 | Building Construction | Building Construction | 5/14/2019 | 4/5/2033 | 5 | 3626 | |
| 4 | Paving | Paving | 4/6/2033 | 3/3/2034 | 5 | 238 | |
| 5 | Architectural Coating | Architectural Coating | 3/4/2034 | 1/31/2035 | 5 | 238 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 1,845,000; Residential Outdoor: 621,665; Non-Residential Indoor: 1,200,000; Non-Residential Outdoor: 406,665
(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 |
| 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 | 2,326.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 1,188.00 | 281.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 238.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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 | | | | | 2.3131 | 0.0000 | 2.3131 | 0.3502 | 0.0000 | 0.3502 | | | 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 | 2.3131 | 2.1252 | 4.4383 | 0.3502 | 1.9797 | 2.3299 | | 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 | 0.1884 | 2.3065 | 2.7758 | 7.4900e-003 | 0.1935 | 0.0536 | 0.2471 | 0.0529 | 0.0493 | 0.1022 | | 742.1036 | 742.1036 | 4.1600e-003 | | 742.1908 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0576 | 0.5477 | 1.3700e-003 | 0.1255 | 7.7000e-004 | 0.1263 | 0.0333 | 7.1000e-004 | 0.0340 | | 108.3764 | 108.3764 | 5.5200e-003 | | 108.4924 |
| Total | 0.2273 | 2.3641 | 3.3235 | 8.8600e-003 | 0.3190 | 0.0544 | 0.3734 | 0.0862 | 0.0501 | 0.1362 | | 850.4800 | 850.4800 | 9.6800e-003 | | 850.6832 |

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 | | | | | 0.9021 | 0.0000 | 0.9021 | 0.1366 | 0.0000 | 0.1366 | | | 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 | 0.9021 | 2.1252 | 3.0273 | 0.1366 | 1.9797 | 2.1163 | 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 | 0.1884 | 2.3065 | 2.7758 | 7.4900e-003 | 0.1935 | 0.0536 | 0.2471 | 0.0529 | 0.0493 | 0.1022 | | 742.1036 | 742.1036 | 4.1600e-003 | | 742.1908 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0576 | 0.5477 | 1.3700e-003 | 0.1255 | 7.7000e-004 | 0.1263 | 0.0333 | 7.1000e-004 | 0.0340 | | 108.3764 | 108.3764 | 5.5200e-003 | | 108.4924 |
| Total | 0.2273 | 2.3641 | 3.3235 | 8.8600e-003 | 0.3190 | 0.0544 | 0.3734 | 0.0862 | 0.0501 | 0.1362 | | 850.4800 | 850.4800 | 9.6800e-003 | | 850.6832 |

3.2 Demolition - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.3131 | 0.0000 | 2.3131 | 0.3502 | 0.0000 | 0.3502 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5606 | 36.8310 | 31.7250 | 0.0399 | | 1.8090 | 1.8090 | | 1.6856 | 1.6856 | | 3,983.3282 | 3,983.3282 | 1.1015 | | 4,006.4585 |
| Total | 3.5606 | 36.8310 | 31.7250 | 0.0399 | 2.3131 | 1.8090 | 4.1220 | 0.3502 | 1.6856 | 2.0358 | | 3,983.3282 | 3,983.3282 | 1.1015 | | 4,006.4585 |

3.2 Demolition - 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 | 0.1806 | 2.0892 | 2.7160 | 7.4800e-003 | 2.8413 | 0.0530 | 2.8943 | 0.7028 | 0.0487 | 0.7515 | | 729.2761 | 729.2761 | 4.1300e-003 | | 729.3628 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0349 | 0.0523 | 0.4957 | 1.3700e-003 | 0.1255 | 7.6000e-004 | 0.1263 | 0.0333 | 7.0000e-004 | 0.0340 | | 104.2325 | 104.2325 | 5.1400e-003 | | 104.3404 |
| Total | 0.2155 | 2.1415 | 3.2117 | 8.8500e-003 | 2.9668 | 0.0537 | 3.0205 | 0.7361 | 0.0494 | 0.7855 | | 833.5086 | 833.5086 | 9.2700e-003 | | 833.7032 |

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 | | | | | 0.9021 | 0.0000 | 0.9021 | 0.1366 | 0.0000 | 0.1366 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5606 | 36.8310 | 31.7250 | 0.0399 | | 1.8090 | 1.8090 | | 1.6856 | 1.6856 | 0.0000 | 3,983.328 2 | 3,983.328 2 | 1.1015 | | 4,006.458 5 |
| Total | 3.5606 | 36.8310 | 31.7250 | 0.0399 | 0.9021 | 1.8090 | 2.7110 | 0.1366 | 1.6856 | 1.8222 | 0.0000 | 3,983.328 2 | 3,983.328 2 | 1.1015 | | 4,006.458 5 |

3.2 Demolition - 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 | 0.1806 | 2.0892 | 2.7160 | 7.4800e-003 | 2.8413 | 0.0530 | 2.8943 | 0.7028 | 0.0487 | 0.7515 | | 729.2761 | 729.2761 | 4.1300e-003 | | 729.3628 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0349 | 0.0523 | 0.4957 | 1.3700e-003 | 0.1255 | 7.6000e-004 | 0.1263 | 0.0333 | 7.0000e-004 | 0.0340 | | 104.2325 | 104.2325 | 5.1400e-003 | | 104.3404 |
| Total | 0.2155 | 2.1415 | 3.2117 | 8.8500e-003 | 2.9668 | 0.0537 | 3.0205 | 0.7361 | 0.0494 | 0.7855 | | 833.5086 | 833.5086 | 9.2700e-003 | | 833.7032 |

3.3 Grading - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.8674 | 0.0000 | 6.8674 | 3.4015 | 0.0000 | 3.4015 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.2895 | 59.5338 | 42.3068 | 0.0617 | | 2.7880 | 2.7880 | | 2.5650 | 2.5650 | | 6,212.8042 | 6,212.8042 | 1.9341 | | 6,253.4209 |
| Total | 5.2895 | 59.5338 | 42.3068 | 0.0617 | 6.8674 | 2.7880 | 9.6554 | 3.4015 | 2.5650 | 5.9665 | | 6,212.8042 | 6,212.8042 | 1.9341 | | 6,253.4209 |

3.3 Grading - 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 | 0.0466 | 0.0698 | 0.6609 | 1.8300e-003 | 0.1673 | 1.0200e-003 | 0.1684 | 0.0444 | 9.4000e-004 | 0.0453 | | 138.9767 | 138.9767 | 6.8500e-003 | | 139.1206 |
| Total | 0.0466 | 0.0698 | 0.6609 | 1.8300e-003 | 0.1673 | 1.0200e-003 | 0.1684 | 0.0444 | 9.4000e-004 | 0.0453 | | 138.9767 | 138.9767 | 6.8500e-003 | | 139.1206 |

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 | | | | | 2.6783 | 0.0000 | 2.6783 | 1.3266 | 0.0000 | 1.3266 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.2895 | 59.5338 | 42.3068 | 0.0617 | | 2.7880 | 2.7880 | | 2.5650 | 2.5650 | 0.0000 | 6,212.8041 | 6,212.8041 | 1.9341 | | 6,253.4209 |
| Total | 5.2895 | 59.5338 | 42.3068 | 0.0617 | 2.6783 | 2.7880 | 5.4663 | 1.3266 | 2.5650 | 3.8916 | 0.0000 | 6,212.8041 | 6,212.8041 | 1.9341 | | 6,253.4209 |

3.3 Grading - 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 | 0.0466 | 0.0698 | 0.6609 | 1.8300e-003 | 0.1673 | 1.0200e-003 | 0.1684 | 0.0444 | 9.4000e-004 | 0.0453 | | 138.9767 | 138.9767 | 6.8500e-003 | | 139.1206 |
| Total | 0.0466 | 0.0698 | 0.6609 | 1.8300e-003 | 0.1673 | 1.0200e-003 | 0.1684 | 0.0444 | 9.4000e-004 | 0.0453 | | 138.9767 | 138.9767 | 6.8500e-003 | | 139.1206 |

3.3 Grading - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.8674 | 0.0000 | 6.8674 | 3.4015 | 0.0000 | 3.4015 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.8912 | 54.1978 | 40.2888 | 0.0617 | | 2.5049 | 2.5049 | | 2.3045 | 2.3045 | | 6,111.3121 | 6,111.3121 | 1.9336 | | 6,151.9167 |
| Total | 4.8912 | 54.1978 | 40.2888 | 0.0617 | 6.8674 | 2.5049 | 9.3723 | 3.4015 | 2.3045 | 5.7060 | | 6,111.3121 | 6,111.3121 | 1.9336 | | 6,151.9167 |

3.3 Grading - 2019

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | 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 | 0.0428 | 0.0640 | 0.6106 | 1.8300e-003 | 0.1673 | 1.0300e-003 | 0.1684 | 0.0444 | 9.5000e-004 | 0.0453 | | 133.7306 | 133.7306 | 6.4700e-003 | | 133.8665 |
| Total | 0.0428 | 0.0640 | 0.6106 | 1.8300e-003 | 0.1673 | 1.0300e-003 | 0.1684 | 0.0444 | 9.5000e-004 | 0.0453 | | 133.7306 | 133.7306 | 6.4700e-003 | | 133.8665 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.6783 | 0.0000 | 2.6783 | 1.3266 | 0.0000 | 1.3266 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.8912 | 54.1978 | 40.2888 | 0.0617 | | 2.5049 | 2.5049 | | 2.3045 | 2.3045 | 0.0000 | 6,111.3121 | 6,111.3121 | 1.9336 | | 6,151.9167 |
| Total | 4.8912 | 54.1978 | 40.2888 | 0.0617 | 2.6783 | 2.5049 | 5.1832 | 1.3266 | 2.3045 | 3.6311 | 0.0000 | 6,111.3121 | 6,111.3121 | 1.9336 | | 6,151.9167 |

3.3 Grading - 2019

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|------|-----------------|
| Category | 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 | 0.0428 | 0.0640 | 0.6106 | 1.8300e-003 | 0.1673 | 1.0300e-003 | 0.1684 | 0.0444 | 9.5000e-004 | 0.0453 | | 133.7306 | 133.7306 | 6.4700e-003 | | | 133.8665 |
| Total | 0.0428 | 0.0640 | 0.6106 | 1.8300e-003 | 0.1673 | 1.0300e-003 | 0.1684 | 0.0444 | 9.5000e-004 | 0.0453 | | 133.7306 | 133.7306 | 6.4700e-003 | | | 133.8665 |

3.4 Building Construction - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 2.3516 | 20.9650 | 17.1204 | 0.0268 | | 1.2850 | 1.2850 | | 1.2083 | 1.2083 | | 2,580.7618 | 2,580.7618 | 0.6279 | | | 2,593.9479 |
| Total | 2.3516 | 20.9650 | 17.1204 | 0.0268 | | 1.2850 | 1.2850 | | 1.2083 | 1.2083 | | 2,580.7618 | 2,580.7618 | 0.6279 | | | 2,593.9479 |

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|------|--------------------|
| Category | 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 | 2.3992 | 15.7826 | 38.4294 | 0.0462 | 1.3706 | 0.3335 | 1.7041 | 0.3895 | 0.3068 | 0.6963 | | 4,385.7508 | 4,385.7508 | 0.0299 | | | 4,386.3776 |
| Worker | 2.5443 | 3.7985 | 36.2689 | 0.1087 | 9.9397 | 0.0611 | 10.0007 | 2.6364 | 0.0566 | 2.6930 | | 7,943.5972 | 7,943.5972 | 0.3843 | | | 7,951.6681 |
| Total | 4.9435 | 19.5810 | 74.6982 | 0.1549 | 11.3103 | 0.3946 | 11.7048 | 3.0259 | 0.3634 | 3.3893 | | 12,329.3480 | 12,329.3480 | 0.4142 | | | 12,338.0458 |

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 | 2.3516 | 20.9650 | 17.1204 | 0.0268 | | 1.2850 | 1.2850 | | 1.2083 | 1.2083 | 0.0000 | 2,580.7618 | 2,580.7618 | 0.6279 | | | 2,593.9479 |
| Total | 2.3516 | 20.9650 | 17.1204 | 0.0268 | | 1.2850 | 1.2850 | | 1.2083 | 1.2083 | 0.0000 | 2,580.7618 | 2,580.7618 | 0.6279 | | | 2,593.9479 |

3.4 Building Construction - 2019

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|------|--------------------|
| Category | 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 | 2.3992 | 15.7826 | 38.4294 | 0.0462 | 1.3706 | 0.3335 | 1.7041 | 0.3895 | 0.3068 | 0.6963 | | 4,385.7508 | 4,385.7508 | 0.0299 | | | 4,386.3776 |
| Worker | 2.5443 | 3.7985 | 36.2689 | 0.1087 | 9.9397 | 0.0611 | 10.0007 | 2.6364 | 0.0566 | 2.6930 | | 7,943.5972 | 7,943.5972 | 0.3843 | | | 7,951.6681 |
| Total | 4.9435 | 19.5810 | 74.6982 | 0.1549 | 11.3103 | 0.3946 | 11.7048 | 3.0259 | 0.3634 | 3.3893 | | 12,329.3480 | 12,329.3480 | 0.4142 | | | 12,338.0458 |

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 | 2.0807 | 13.4026 | 35.9048 | 0.0461 | 1.3704 | 0.2991 | 1.6695 | 0.3894 | 0.2751 | 0.6646 | | 4,284.076 4 | 4,284.076 4 | 0.0287 | | | 4,284.678 7 |
| Worker | 2.3710 | 3.5198 | 33.6851 | 0.1087 | 9.9397 | 0.0617 | 10.0013 | 2.6364 | 0.0572 | 2.6936 | | 7,618.486 1 | 7,618.486 1 | 0.3644 | | | 7,626.137 5 |
| Total | 4.4517 | 16.9223 | 69.5899 | 0.1548 | 11.3101 | 0.3607 | 11.6708 | 3.0259 | 0.3323 | 3.3582 | | 11,902.56 25 | 11,902.56 25 | 0.3930 | | | 11,910.81 62 |

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 | 2.1113 | 19.0839 | 16.8084 | 0.0268 | | 1.1128 | 1.1128 | | 1.0465 | 1.0465 | 0.0000 | 2,542.479 9 | 2,542.479 9 | 0.6194 | | | 2,555.488 0 |
| Total | 2.1113 | 19.0839 | 16.8084 | 0.0268 | | 1.1128 | 1.1128 | | 1.0465 | 1.0465 | 0.0000 | 2,542.479 9 | 2,542.479 9 | 0.6194 | | | 2,555.488 0 |

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 | 2.0807 | 13.4026 | 35.9048 | 0.0461 | 1.3704 | 0.2991 | 1.6695 | 0.3894 | 0.2751 | 0.6646 | | 4,284.076 4 | 4,284.076 4 | 0.0287 | | | 4,284.678 7 |
| Worker | 2.3710 | 3.5198 | 33.6851 | 0.1087 | 9.9397 | 0.0617 | 10.0013 | 2.6364 | 0.0572 | 2.6936 | | 7,618.486 1 | 7,618.486 1 | 0.3644 | | | 7,626.137 5 |
| Total | 4.4517 | 16.9223 | 69.5899 | 0.1548 | 11.3101 | 0.3607 | 11.6708 | 3.0259 | 0.3323 | 3.3582 | | 11,902.56 25 | 11,902.56 25 | 0.3930 | | | 11,910.81 62 |

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 | | 2,542.781 7 | 2,542.781 7 | 0.6126 | | | 2,555.646 2 |
| Total | 1.8931 | 17.3403 | 16.5376 | 0.0268 | | 0.9549 | 0.9549 | | 0.8979 | 0.8979 | | 2,542.781 7 | 2,542.781 7 | 0.6126 | | | 2,555.646 2 |

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 | 1.9198 | 11.0212 | 34.2896 | 0.0460 | 1.3704 | 0.2576 | 1.6280 | 0.3894 | 0.2370 | 0.6264 | | 4,278.598 2 | 4,278.598 2 | 0.0290 | | | 4,279.207 8 |
| Worker | 2.2392 | 3.2955 | 31.9348 | 0.1089 | 9.9397 | 0.0632 | 10.0028 | 2.6364 | 0.0586 | 2.6950 | | 7,500.944 7 | 7,500.944 7 | 0.3527 | | | 7,508.351 6 |
| Total | 4.1591 | 14.3167 | 66.2244 | 0.1549 | 11.3101 | 0.3208 | 11.6308 | 3.0259 | 0.2956 | 3.3214 | | 11,779.54 29 | 11,779.54 29 | 0.3817 | | | 11,787.55 94 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.8931 | 17.3403 | 16.5376 | 0.0268 | | 0.9549 | 0.9549 | | 0.8979 | 0.8979 | 0.0000 | 2,542.781 7 | 2,542.781 7 | 0.6126 | | | 2,555.646 2 |
| Total | 1.8931 | 17.3403 | 16.5376 | 0.0268 | | 0.9549 | 0.9549 | | 0.8979 | 0.8979 | 0.0000 | 2,542.781 7 | 2,542.781 7 | 0.6126 | | | 2,555.646 2 |

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 | 1.9198 | 11.0212 | 34.2896 | 0.0460 | 1.3704 | 0.2576 | 1.6280 | 0.3894 | 0.2370 | 0.6264 | | 4,278.598 2 | 4,278.598 2 | 0.0290 | | | 4,279.207 8 |
| Worker | 2.2392 | 3.2955 | 31.9348 | 0.1089 | 9.9397 | 0.0632 | 10.0028 | 2.6364 | 0.0586 | 2.6950 | | 7,500.944 7 | 7,500.944 7 | 0.3527 | | | 7,508.351 6 |
| Total | 4.1591 | 14.3167 | 66.2244 | 0.1549 | 11.3101 | 0.3208 | 11.6308 | 3.0259 | 0.2956 | 3.3214 | | 11,779.54 29 | 11,779.54 29 | 0.3817 | | | 11,787.55 94 |

3.4 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.6992 | 15.5364 | 16.3276 | 0.0268 | | 0.8057 | 0.8057 | | 0.7581 | 0.7581 | | 2,543.749 7 | 2,543.749 7 | 0.6085 | | | 2,556.528 6 |
| Total | 1.6992 | 15.5364 | 16.3276 | 0.0268 | | 0.8057 | 0.8057 | | 0.7581 | 0.7581 | | 2,543.749 7 | 2,543.749 7 | 0.6085 | | | 2,556.528 6 |

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------------|-------------------------|---------------|-----|------|-------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 1.8354 | 9.8783 | 33.2533 | 0.0459 | 1.3704 | 0.2535 | 1.6239 | 0.3894 | 0.2332 | 0.6227 | | 4,273.997 2 | 4,273.997 2 | 0.0296 | | | 4,274.618 2 |
| Worker | 2.1169 | 3.1016 | 30.0829 | 0.1089 | 9.9397 | 0.0639 | 10.0036 | 2.6364 | 0.0593 | 2.6957 | | 7,382.245 1 | 7,382.245 1 | 0.3391 | | | 7,389.365 8 |
| Total | 3.9523 | 12.9798 | 63.3361 | 0.1548 | 11.3100 | 0.3174 | 11.6275 | 3.0259 | 0.2925 | 3.3184 | | 11,656.24 23 | 11,656.24 23 | 0.3687 | | | 11,663.98 39 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.6992 | 15.5364 | 16.3276 | 0.0268 | | 0.8057 | 0.8057 | | 0.7581 | 0.7581 | 0.0000 | 2,543.749 7 | 2,543.749 7 | 0.6085 | | | 2,556.528 6 |
| Total | 1.6992 | 15.5364 | 16.3276 | 0.0268 | | 0.8057 | 0.8057 | | 0.7581 | 0.7581 | 0.0000 | 2,543.749 7 | 2,543.749 7 | 0.6085 | | | 2,556.528 6 |

3.4 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------------|-------------------------|---------------|-----|------|-------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 1.8354 | 9.8783 | 33.2533 | 0.0459 | 1.3704 | 0.2535 | 1.6239 | 0.3894 | 0.2332 | 0.6227 | | 4,273.997 2 | 4,273.997 2 | 0.0296 | | | 4,274.618 2 |
| Worker | 2.1169 | 3.1016 | 30.0829 | 0.1089 | 9.9397 | 0.0639 | 10.0036 | 2.6364 | 0.0593 | 2.6957 | | 7,382.245 1 | 7,382.245 1 | 0.3391 | | | 7,389.365 8 |
| Total | 3.9523 | 12.9798 | 63.3361 | 0.1548 | 11.3100 | 0.3174 | 11.6275 | 3.0259 | 0.2925 | 3.3184 | | 11,656.24 23 | 11,656.24 23 | 0.3687 | | | 11,663.98 39 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.5661 | 14.3126 | 16.2093 | 0.0268 | | 0.6967 | 0.6967 | | 0.6557 | 0.6557 | | 2,544.626 2 | 2,544.626 2 | 0.6044 | | | 2,557.319 1 |
| Total | 1.5661 | 14.3126 | 16.2093 | 0.0268 | | 0.6967 | 0.6967 | | 0.6557 | 0.6557 | | 2,544.626 2 | 2,544.626 2 | 0.6044 | | | 2,557.319 1 |

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 1.6869 | 8.6607 | 31.5300 | 0.0458 | 1.3704 | 0.2427 | 1.6131 | 0.3894 | 0.2233 | 0.6127 | | 4,264.0349 | 4,264.0349 | 0.0278 | | | 4,264.6194 |
| Worker | 2.0077 | 2.9359 | 28.4706 | 0.1089 | 9.9397 | 0.0646 | 10.0043 | 2.6364 | 0.0600 | 2.6964 | | 7,277.6541 | 7,277.6541 | 0.3276 | | | 7,284.5330 |
| Total | 3.6946 | 11.5966 | 60.0006 | 0.1547 | 11.3100 | 0.3074 | 11.6174 | 3.0258 | 0.2833 | 3.3091 | | 11,541.6890 | 11,541.6890 | 0.3554 | | | 11,549.1524 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.5661 | 14.3126 | 16.2093 | 0.0268 | | 0.6967 | 0.6967 | | 0.6557 | 0.6557 | 0.0000 | 2,544.6262 | 2,544.6262 | 0.6044 | | | 2,557.3191 |
| Total | 1.5661 | 14.3126 | 16.2093 | 0.0268 | | 0.6967 | 0.6967 | | 0.6557 | 0.6557 | 0.0000 | 2,544.6262 | 2,544.6262 | 0.6044 | | | 2,557.3191 |

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 1.6869 | 8.6607 | 31.5300 | 0.0458 | 1.3704 | 0.2427 | 1.6131 | 0.3894 | 0.2233 | 0.6127 | | 4,264.0349 | 4,264.0349 | 0.0278 | | | 4,264.6194 |
| Worker | 2.0077 | 2.9359 | 28.4706 | 0.1089 | 9.9397 | 0.0646 | 10.0043 | 2.6364 | 0.0600 | 2.6964 | | 7,277.6541 | 7,277.6541 | 0.3276 | | | 7,284.5330 |
| Total | 3.6946 | 11.5966 | 60.0006 | 0.1547 | 11.3100 | 0.3074 | 11.6174 | 3.0258 | 0.2833 | 3.3091 | | 11,541.6890 | 11,541.6890 | 0.3554 | | | 11,549.1524 |

3.4 Building Construction - 2024

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 | 1.4653 | 13.3774 | 16.1332 | 0.0268 | | 0.6106 | 0.6106 | | 0.5744 | 0.5744 | | 2,545.1154 | 2,545.1154 | 0.6009 | | | 2,557.7349 |
| Total | 1.4653 | 13.3774 | 16.1332 | 0.0268 | | 0.6106 | 0.6106 | | 0.5744 | 0.5744 | | 2,545.1154 | 2,545.1154 | 0.6009 | | | 2,557.7349 |

3.4 Building Construction - 2024

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 | 1.6246 | 8.5870 | 30.3060 | 0.0459 | 1.3703 | 0.2376 | 1.6079 | 0.3894 | 0.2186 | 0.6080 | | 4,278.8218 | 4,278.8218 | 0.0285 | | | 4,279.4207 |
| Worker | 1.9300 | 2.8185 | 27.6535 | 0.1104 | 9.9397 | 0.0674 | 10.0070 | 2.6364 | 0.0625 | 2.6989 | | 7,286.6977 | 7,286.6977 | 0.3288 | | | 7,293.6017 |
| Total | 3.5546 | 11.4055 | 57.9595 | 0.1563 | 11.3100 | 0.3049 | 11.6149 | 3.0258 | 0.2810 | 3.3069 | | 11,565.5195 | 11,565.5195 | 0.3573 | | | 11,573.0224 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.4653 | 13.3774 | 16.1332 | 0.0268 | | 0.6106 | 0.6106 | | 0.5744 | 0.5744 | 0.0000 | 2,545.1154 | 2,545.1154 | 0.6009 | | | 2,557.7349 |
| Total | 1.4653 | 13.3774 | 16.1332 | 0.0268 | | 0.6106 | 0.6106 | | 0.5744 | 0.5744 | 0.0000 | 2,545.1154 | 2,545.1154 | 0.6009 | | | 2,557.7349 |

3.4 Building Construction - 2024

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 | 1.6246 | 8.5870 | 30.3060 | 0.0459 | 1.3703 | 0.2376 | 1.6079 | 0.3894 | 0.2186 | 0.6080 | | 4,278.8218 | 4,278.8218 | 0.0285 | | | 4,279.4207 |
| Worker | 1.9300 | 2.8185 | 27.6535 | 0.1104 | 9.9397 | 0.0674 | 10.0070 | 2.6364 | 0.0625 | 2.6989 | | 7,286.6977 | 7,286.6977 | 0.3288 | | | 7,293.6017 |
| Total | 3.5546 | 11.4055 | 57.9595 | 0.1563 | 11.3100 | 0.3049 | 11.6149 | 3.0258 | 0.2810 | 3.3069 | | 11,565.5195 | 11,565.5195 | 0.3573 | | | 11,573.0224 |

3.4 Building Construction - 2025

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2025

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 | 1.5791 | 8.5073 | 29.8622 | 0.0459 | 1.3703 | 0.2384 | 1.6087 | 0.3894 | 0.2193 | 0.6087 | | 4,278.5105 | 4,278.5105 | 0.0286 | | | 4,279.1105 |
| Worker | 1.8536 | 2.7059 | 26.6003 | 0.1104 | 9.9397 | 0.0681 | 10.0078 | 2.6364 | 0.0632 | 2.6996 | | 7,208.1148 | 7,208.1148 | 0.3208 | | | 7,214.8524 |
| Total | 3.4327 | 11.2132 | 56.4625 | 0.1563 | 11.3100 | 0.3065 | 11.6165 | 3.0258 | 0.2826 | 3.3084 | | 11,486.6253 | 11,486.6253 | 0.3494 | | | 11,493.9629 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2025

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 | 1.5791 | 8.5073 | 29.8622 | 0.0459 | 1.3703 | 0.2384 | 1.6087 | 0.3894 | 0.2193 | 0.6087 | | 4,278.5105 | 4,278.5105 | 0.0286 | | | 4,279.1105 |
| Worker | 1.8536 | 2.7059 | 26.6003 | 0.1104 | 9.9397 | 0.0681 | 10.0078 | 2.6364 | 0.0632 | 2.6996 | | 7,208.1148 | 7,208.1148 | 0.3208 | | | 7,214.8524 |
| Total | 3.4327 | 11.2132 | 56.4625 | 0.1563 | 11.3100 | 0.3065 | 11.6165 | 3.0258 | 0.2826 | 3.3084 | | 11,486.6253 | 11,486.6253 | 0.3494 | | | 11,493.9629 |

3.4 Building Construction - 2026

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2026

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 | 1.5218 | 8.3735 | 29.0005 | 0.0459 | 1.3703 | 0.2357 | 1.6061 | 0.3894 | 0.2169 | 0.6063 | | 4,278.0830 | 4,278.0830 | 0.0284 | | | 4,278.6789 |
| Worker | 1.7897 | 2.6150 | 25.7541 | 0.1104 | 9.9397 | 0.0689 | 10.0086 | 2.6364 | 0.0640 | 2.7004 | | 7,142.3578 | 7,142.3578 | 0.3146 | | | 7,148.9633 |
| Total | 3.3116 | 10.9884 | 54.7546 | 0.1563 | 11.3100 | 0.3047 | 11.6146 | 3.0258 | 0.2808 | 3.3067 | | 11,420.4408 | 11,420.4408 | 0.3429 | | | 11,427.6422 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2026

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 | 1.5218 | 8.3735 | 29.0005 | 0.0459 | 1.3703 | 0.2357 | 1.6061 | 0.3894 | 0.2169 | 0.6063 | | 4,278.0830 | 4,278.0830 | 0.0284 | | | 4,278.6789 |
| Worker | 1.7897 | 2.6150 | 25.7541 | 0.1104 | 9.9397 | 0.0689 | 10.0086 | 2.6364 | 0.0640 | 2.7004 | | 7,142.3578 | 7,142.3578 | 0.3146 | | | 7,148.9633 |
| Total | 3.3116 | 10.9884 | 54.7546 | 0.1563 | 11.3100 | 0.3047 | 11.6146 | 3.0258 | 0.2808 | 3.3067 | | 11,420.4408 | 11,420.4408 | 0.3429 | | | 11,427.6422 |

3.4 Building Construction - 2027

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.8905 | 2,545.8905 | 0.5975 | | | 2,558.4386 |

3.4 Building Construction - 2027

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 | 1.5109 | 8.3134 | 28.7739 | 0.0459 | 1.3704 | 0.2362 | 1.6066 | 0.3894 | 0.2173 | 0.6067 | | 4,278.248 2 | 4,278.248 2 | 0.0284 | | | 4,278.844 7 |
| Worker | 1.7336 | 2.5361 | 25.0316 | 0.1104 | 9.9397 | 0.0696 | 10.0093 | 2.6364 | 0.0646 | 2.7010 | | 7,086.382 9 | 7,086.382 9 | 0.3091 | | | 7,092.872 9 |
| Total | 3.2445 | 10.8495 | 53.8056 | 0.1563 | 11.3101 | 0.3058 | 11.6158 | 3.0259 | 0.2819 | 3.3077 | | 11,364.63 11 | 11,364.63 11 | 0.3375 | | | 11,371.71 76 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |

3.4 Building Construction - 2027

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 | 1.5109 | 8.3134 | 28.7739 | 0.0459 | 1.3704 | 0.2362 | 1.6066 | 0.3894 | 0.2173 | 0.6067 | | 4,278.248 2 | 4,278.248 2 | 0.0284 | | | 4,278.844 7 |
| Worker | 1.7336 | 2.5361 | 25.0316 | 0.1104 | 9.9397 | 0.0696 | 10.0093 | 2.6364 | 0.0646 | 2.7010 | | 7,086.382 9 | 7,086.382 9 | 0.3091 | | | 7,092.872 9 |
| Total | 3.2445 | 10.8495 | 53.8056 | 0.1563 | 11.3101 | 0.3058 | 11.6158 | 3.0259 | 0.2819 | 3.3077 | | 11,364.63 11 | 11,364.63 11 | 0.3375 | | | 11,371.71 76 |

3.4 Building Construction - 2028

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |

3.4 Building Construction - 2028

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 | 1.4873 | 8.2588 | 28.5776 | 0.0459 | 1.3705 | 0.2358 | 1.6063 | 0.3895 | 0.2169 | 0.6064 | | 4,278.291 2 | 4,278.291 2 | 0.0284 | | | 4,278.887 1 |
| Worker | 1.6835 | 2.4666 | 24.4096 | 0.1104 | 9.9397 | 0.0702 | 10.0099 | 2.6364 | 0.0652 | 2.7016 | | 7,039.125 3 | 7,039.125 3 | 0.3042 | | | 7,045.513 4 |
| Total | 3.1708 | 10.7255 | 52.9873 | 0.1563 | 11.3101 | 0.3060 | 11.6161 | 3.0259 | 0.2821 | 3.3080 | | 11,317.41 64 | 11,317.41 64 | 0.3326 | | | 11,324.40 05 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |

3.4 Building Construction - 2028

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 | 1.4873 | 8.2588 | 28.5776 | 0.0459 | 1.3705 | 0.2358 | 1.6063 | 0.3895 | 0.2169 | 0.6064 | | 4,278.291 2 | 4,278.291 2 | 0.0284 | | | 4,278.887 1 |
| Worker | 1.6835 | 2.4666 | 24.4096 | 0.1104 | 9.9397 | 0.0702 | 10.0099 | 2.6364 | 0.0652 | 2.7016 | | 7,039.125 3 | 7,039.125 3 | 0.3042 | | | 7,045.513 4 |
| Total | 3.1708 | 10.7255 | 52.9873 | 0.1563 | 11.3101 | 0.3060 | 11.6161 | 3.0259 | 0.2821 | 3.3080 | | 11,317.41 64 | 11,317.41 64 | 0.3326 | | | 11,324.40 05 |

3.4 Building Construction - 2029

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 | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |

3.4 Building Construction - 2029

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 | 1.4778 | 8.2179 | 28.3850 | 0.0459 | 1.3705 | 0.2359 | 1.6064 | 0.3895 | 0.2170 | 0.6065 | | 4,278.437 4 | 4,278.437 4 | 0.0284 | | | 4,279.033 4 |
| Worker | 1.6350 | 2.4008 | 23.8194 | 0.1104 | 9.9397 | 0.0707 | 10.0104 | 2.6364 | 0.0656 | 2.7020 | | 6,999.301 3 | 6,999.301 3 | 0.2995 | | | 7,005.591 4 |
| Total | 3.1129 | 10.6187 | 52.2045 | 0.1563 | 11.3102 | 0.3066 | 11.6168 | 3.0259 | 0.2826 | 3.3085 | | 11,277.73 87 | 11,277.73 87 | 0.3279 | | | 11,284.62 48 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |
| Total | 1.3615 | 12.4097 | 16.0518 | 0.0269 | | 0.5250 | 0.5250 | | 0.4939 | 0.4939 | 0.0000 | 2,545.890 5 | 2,545.890 5 | 0.5975 | | | 2,558.438 6 |

3.4 Building Construction - 2029

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 | 1.4778 | 8.2179 | 28.3850 | 0.0459 | 1.3705 | 0.2359 | 1.6064 | 0.3895 | 0.2170 | 0.6065 | | 4,278.4374 | 4,278.4374 | 0.0284 | | | 4,279.0334 |
| Worker | 1.6350 | 2.4008 | 23.8194 | 0.1104 | 9.9397 | 0.0707 | 10.0104 | 2.6364 | 0.0656 | 2.7020 | | 6,999.3013 | 6,999.3013 | 0.2995 | | | 7,005.5914 |
| Total | 3.1129 | 10.6187 | 52.2045 | 0.1563 | 11.3102 | 0.3066 | 11.6168 | 3.0259 | 0.2826 | 3.3085 | | 11,277.7387 | 11,277.7387 | 0.3279 | | | 11,284.6248 |

3.4 Building Construction - 2030

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 | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |

3.4 Building Construction - 2030

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 | 1.4682 | 8.1839 | 28.2880 | 0.0459 | 1.3706 | 0.2359 | 1.6065 | 0.3895 | 0.2170 | 0.6065 | | 4,278.5317 | 4,278.5317 | 0.0284 | | | 4,279.1279 |
| Worker | 1.5902 | 2.3408 | 23.3055 | 0.1104 | 9.9397 | 0.0711 | 10.0107 | 2.6364 | 0.0660 | 2.7024 | | 6,966.0093 | 6,966.0093 | 0.2952 | | | 6,972.2093 |
| Total | 3.0583 | 10.5246 | 51.5935 | 0.1563 | 11.3103 | 0.3070 | 11.6172 | 3.0260 | 0.2830 | 3.3089 | | 11,244.5410 | 11,244.5410 | 0.3236 | | | 11,251.3371 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |

3.4 Building Construction - 2030

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 | 1.4682 | 8.1839 | 28.2880 | 0.0459 | 1.3706 | 0.2359 | 1.6065 | 0.3895 | 0.2170 | 0.6065 | | 4,278.5317 | 4,278.5317 | 0.0284 | | | 4,279.1279 |
| Worker | 1.5902 | 2.3408 | 23.3055 | 0.1104 | 9.9397 | 0.0711 | 10.0107 | 2.6364 | 0.0660 | 2.7024 | | 6,966.0093 | 6,966.0093 | 0.2952 | | | 6,972.2093 |
| Total | 3.0583 | 10.5246 | 51.5935 | 0.1563 | 11.3103 | 0.3070 | 11.6172 | 3.0260 | 0.2830 | 3.3089 | | 11,244.5410 | 11,244.5410 | 0.3236 | | | 11,251.3371 |

3.4 Building Construction - 2031

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 | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |

3.4 Building Construction - 2031

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 | 1.4672 | 8.2102 | 28.1234 | 0.0462 | 1.3718 | 0.2268 | 1.5985 | 0.3900 | 0.2086 | 0.5986 | | 4,310.004 2 | 4,310.004 2 | 0.0293 | | | 4,310.618 5 |
| Worker | 1.5692 | 2.3134 | 23.4220 | 0.1129 | 9.9397 | 0.0748 | 10.0144 | 2.6364 | 0.0694 | 2.7058 | | 7,098.421 0 | 7,098.421 0 | 0.3078 | | | 7,104.884 9 |
| Total | 3.0365 | 10.5236 | 51.5454 | 0.1591 | 11.3114 | 0.3015 | 11.6129 | 3.0264 | 0.2780 | 3.3044 | | 11,408.42 51 | 11,408.42 51 | 0.3371 | | | 11,415.50 34 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |

3.4 Building Construction - 2031

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 | 1.4672 | 8.2102 | 28.1234 | 0.0462 | 1.3718 | 0.2268 | 1.5985 | 0.3900 | 0.2086 | 0.5986 | | 4,310.004 2 | 4,310.004 2 | 0.0293 | | | 4,310.618 5 |
| Worker | 1.5692 | 2.3134 | 23.4220 | 0.1129 | 9.9397 | 0.0748 | 10.0144 | 2.6364 | 0.0694 | 2.7058 | | 7,098.421 0 | 7,098.421 0 | 0.3078 | | | 7,104.884 9 |
| Total | 3.0365 | 10.5236 | 51.5454 | 0.1591 | 11.3114 | 0.3015 | 11.6129 | 3.0264 | 0.2780 | 3.3044 | | 11,408.42 51 | 11,408.42 51 | 0.3371 | | | 11,415.50 34 |

3.4 Building Construction - 2032

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 | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |

3.4 Building Construction - 2032

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 | 1.4610 | 8.2032 | 28.0615 | 0.0462 | 1.3729 | 0.2274 | 1.6002 | 0.3905 | 0.2092 | 0.5997 | | 4,314.738 2 | 4,314.738 2 | 0.0293 | | | 4,315.353 4 |
| Worker | 1.5336 | 2.2678 | 23.0432 | 0.1129 | 9.9397 | 0.0750 | 10.0146 | 2.6364 | 0.0696 | 2.7060 | | 7,075.334 8 | 7,075.334 8 | 0.3046 | | | 7,081.732 2 |
| Total | 2.9946 | 10.4710 | 51.1047 | 0.1592 | 11.3125 | 0.3023 | 11.6148 | 3.0269 | 0.2787 | 3.3056 | | 11,390.07 30 | 11,390.07 30 | 0.3339 | | | 11,397.08 56 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |

3.4 Building Construction - 2032

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 | 1.4610 | 8.2032 | 28.0615 | 0.0462 | 1.3729 | 0.2274 | 1.6002 | 0.3905 | 0.2092 | 0.5997 | | 4,314.738 2 | 4,314.738 2 | 0.0293 | | | 4,315.353 4 |
| Worker | 1.5336 | 2.2678 | 23.0432 | 0.1129 | 9.9397 | 0.0750 | 10.0146 | 2.6364 | 0.0696 | 2.7060 | | 7,075.334 8 | 7,075.334 8 | 0.3046 | | | 7,081.732 2 |
| Total | 2.9946 | 10.4710 | 51.1047 | 0.1592 | 11.3125 | 0.3023 | 11.6148 | 3.0269 | 0.2787 | 3.3056 | | 11,390.07 30 | 11,390.07 30 | 0.3339 | | | 11,397.08 56 |

3.4 Building Construction - 2033

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 | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | | 2,884.830 0 | 2,884.830 0 | 0.1158 | | | 2,887.261 7 |

3.4 Building Construction - 2033

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 | 1.4505 | 8.1895 | 28.0073 | 0.0463 | 1.3739 | 0.2279 | 1.6018 | 0.3909 | 0.2097 | 0.6006 | | 4,318.9560 | 4,318.9560 | 0.0293 | | | 4,319.5720 |
| Worker | 1.5024 | 2.2287 | 22.7217 | 0.1129 | 9.9397 | 0.0751 | 10.0148 | 2.6364 | 0.0697 | 2.7061 | | 7,056.2480 | 7,056.2480 | 0.3019 | | | 7,062.5875 |
| Total | 2.9529 | 10.4182 | 50.7289 | 0.1592 | 11.3135 | 0.3030 | 11.6165 | 3.0273 | 0.2794 | 3.3067 | | 11,375.2040 | 11,375.2040 | 0.3312 | | | 11,382.1595 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |
| Total | 1.3041 | 7.9179 | 16.1313 | 0.0308 | | 0.1476 | 0.1476 | | 0.1476 | 0.1476 | 0.0000 | 2,884.8300 | 2,884.8300 | 0.1158 | | | 2,887.2617 |

3.4 Building Construction - 2033

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 | 1.4505 | 8.1895 | 28.0073 | 0.0463 | 1.3739 | 0.2279 | 1.6018 | 0.3909 | 0.2097 | 0.6006 | | 4,318.9560 | 4,318.9560 | 0.0293 | | | 4,319.5720 |
| Worker | 1.5024 | 2.2287 | 22.7217 | 0.1129 | 9.9397 | 0.0751 | 10.0148 | 2.6364 | 0.0697 | 2.7061 | | 7,056.2480 | 7,056.2480 | 0.3019 | | | 7,062.5875 |
| Total | 2.9529 | 10.4182 | 50.7289 | 0.1592 | 11.3135 | 0.3030 | 11.6165 | 3.0273 | 0.2794 | 3.3067 | | 11,375.2040 | 11,375.2040 | 0.3312 | | | 11,382.1595 |

3.5 Paving - 2033

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 | 1.3549 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |
| Paving | 0.0281 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.3830 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |

3.5 Paving - 2033

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 | 0.0190 | 0.0281 | 0.2869 | 1.4300e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 89.0940 | 89.0940 | 3.8100e-003 | | | 89.1741 |
| Total | 0.0190 | 0.0281 | 0.2869 | 1.4300e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 89.0940 | 89.0940 | 3.8100e-003 | | | 89.1741 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3549 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | 0.0000 | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |
| Paving | 0.0281 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.3830 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | 0.0000 | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |

3.5 Paving - 2033

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 | 0.0190 | 0.0281 | 0.2869 | 1.4300e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 89.0940 | 89.0940 | 3.8100e-003 | | 89.1741 |
| Total | 0.0190 | 0.0281 | 0.2869 | 1.4300e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 89.0940 | 89.0940 | 3.8100e-003 | | 89.1741 |

3.5 Paving - 2034

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 | 1.3549 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | | 2,599.9866 | 2,599.9866 | 0.1219 | | 2,602.5460 |
| Paving | 0.0281 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.3830 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | | 2,599.9866 | 2,599.9866 | 0.1219 | | 2,602.5460 |

3.5 Paving - 2034

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 | 0.0186 | 0.0277 | 0.2830 | 1.4300e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 88.8932 | 88.8932 | 3.7800e-003 | | | 88.9726 |
| Total | 0.0186 | 0.0277 | 0.2830 | 1.4300e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 88.8932 | 88.8932 | 3.7800e-003 | | | 88.9726 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.3549 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | 0.0000 | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |
| Paving | 0.0281 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.3830 | 6.9800 | 15.5192 | 0.0275 | | 0.3234 | 0.3234 | | 0.3234 | 0.3234 | 0.0000 | 2,599.9866 | 2,599.9866 | 0.1219 | | | 2,602.5460 |

3.5 Paving - 2034

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 | 0.0186 | 0.0277 | 0.2830 | 1.4300e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 88.8932 | 88.8932 | 3.7800e-003 | | | 88.9726 |
| Total | 0.0186 | 0.0277 | 0.2830 | 1.4300e-003 | 0.1255 | 9.5000e-004 | 0.1265 | 0.0333 | 8.8000e-004 | 0.0342 | | 88.8932 | 88.8932 | 3.7800e-003 | | | 88.9726 |

3.6 Architectural Coating - 2034

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 | 39.6636 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 0.1308 | 0.8563 | 1.7977 | 2.9700e-003 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | | 281.4481 | 281.4481 | 0.0114 | | | 281.6873 |
| Total | 39.7944 | 0.8563 | 1.7977 | 2.9700e-003 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | | 281.4481 | 281.4481 | 0.0114 | | | 281.6873 |

3.6 Architectural Coating - 2034

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 | 0.2952 | 0.4400 | 4.4910 | 0.0226 | 1.9913 | 0.0151 | 2.0063 | 0.5282 | 0.0140 | 0.5422 | | 1,410.439 4 | 1,410.439 4 | 0.0600 | | | 1,411.698 4 |
| Total | 0.2952 | 0.4400 | 4.4910 | 0.0226 | 1.9913 | 0.0151 | 2.0063 | 0.5282 | 0.0140 | 0.5422 | | 1,410.439 4 | 1,410.439 4 | 0.0600 | | | 1,411.698 4 |

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 | 39.6636 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 0.1308 | 0.8563 | 1.7977 | 2.9700e-003 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | 0.0000 | 281.4481 | 281.4481 | 0.0114 | | | 281.6873 |
| Total | 39.7944 | 0.8563 | 1.7977 | 2.9700e-003 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | 0.0000 | 281.4481 | 281.4481 | 0.0114 | | | 281.6873 |

3.6 Architectural Coating - 2034

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 | 0.2952 | 0.4400 | 4.4910 | 0.0226 | 1.9913 | 0.0151 | 2.0063 | 0.5282 | 0.0140 | 0.5422 | | 1,410.439 4 | 1,410.439 4 | 0.0600 | | | 1,411.698 4 |
| Total | 0.2952 | 0.4400 | 4.4910 | 0.0226 | 1.9913 | 0.0151 | 2.0063 | 0.5282 | 0.0140 | 0.5422 | | 1,410.439 4 | 1,410.439 4 | 0.0600 | | | 1,411.698 4 |

3.6 Architectural Coating - 2035

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 | 39.6636 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 0.1179 | 0.7577 | 1.7943 | 2.9700e-003 | | 9.9000e-003 | 9.9000e-003 | | 9.9000e-003 | 9.9000e-003 | | 281.4481 | 281.4481 | 0.0104 | | | 281.6665 |
| Total | 39.7815 | 0.7577 | 1.7943 | 2.9700e-003 | | 9.9000e-003 | 9.9000e-003 | | 9.9000e-003 | 9.9000e-003 | | 281.4481 | 281.4481 | 0.0104 | | | 281.6665 |

3.6 Architectural Coating - 2035

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 | 0.2902 | 0.4349 | 4.4382 | 0.0226 | 1.9913 | 0.0151 | 2.0064 | 0.5282 | 0.0140 | 0.5422 | | 1,407.827 2 | 1,407.827 2 | 0.0595 | | | 1,409.076 3 |
| Total | 0.2902 | 0.4349 | 4.4382 | 0.0226 | 1.9913 | 0.0151 | 2.0064 | 0.5282 | 0.0140 | 0.5422 | | 1,407.827 2 | 1,407.827 2 | 0.0595 | | | 1,409.076 3 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------|----------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|---------------|-----|------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Archit. Coating | 39.6636 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 0.1179 | 0.7577 | 1.7943 | 2.9700e-003 | | 9.9000e-003 | 9.9000e-003 | | 9.9000e-003 | 9.9000e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0104 | | | 281.6665 |
| Total | 39.7815 | 0.7577 | 1.7943 | 2.9700e-003 | | 9.9000e-003 | 9.9000e-003 | | 9.9000e-003 | 9.9000e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0104 | | | 281.6665 |

3.6 Architectural Coating - 2035

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 | 0.2902 | 0.4349 | 4.4382 | 0.0226 | 1.9913 | 0.0151 | 2.0064 | 0.5282 | 0.0140 | 0.5422 | | 1,407.827 2 | 1,407.827 2 | 0.0595 | | | 1,409.076 3 |
| Total | 0.2902 | 0.4349 | 4.4382 | 0.0226 | 1.9913 | 0.0151 | 2.0064 | 0.5282 | 0.0140 | 0.5422 | | 1,407.827 2 | 1,407.827 2 | 0.0595 | | | 1,409.076 3 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 57.2122 | 97.9480 | 651.3287 | 1.1299 | 71.0677 | 2.2076 | 73.2753 | 18.9651 | 2.0370 | 21.0021 | | 81,041.2087 | 81,041.2087 | 2.4492 | | 81,092.6410 |
| Unmitigated | 61.4255 | 130.2700 | 759.3672 | 1.8362 | 120.4148 | 3.4214 | 123.8362 | 32.1339 | 3.1557 | 35.2896 | | 131,851.6480 | 131,851.6480 | 3.8214 | | 131,931.8963 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|--------------------------|-------------------------|------------------|------------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 7,097.10 | 7,097.10 | 7097.10 | 15,875,652 | 9,369,659 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Regional Shopping Center | 30,848.00 | 30,848.00 | 30848.00 | 40,855,689 | 24,112,638 |
| Total | 37,945.10 | 37,945.10 | 37,945.10 | 56,731,341 | 33,482,296 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 11.00 | 3.50 | 4.50 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 12.50 | 4.20 | 5.40 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Regional Shopping Center | 12.50 | 4.20 | 5.40 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.465965 | 0.065297 | 0.183466 | 0.172527 | 0.024353 | 0.004615 | 0.008261 | 0.065438 | 0.000861 | 0.001949 | 0.002956 | 0.000367 | 0.003945 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.4396 | 3.7801 | 1.7702 | 0.0240 | | 0.3037 | 0.3037 | | 0.3037 | 0.3037 | | 4,795.7662 | 4,795.7662 | 0.0919 | 0.0879 | 4,824.9524 |
| NaturalGas Unmitigated | 0.5535 | 4.7600 | 2.2322 | 0.0302 | | 0.3824 | 0.3824 | | 0.3824 | 0.3824 | | 6,038.4548 | 6,038.4548 | 0.1157 | 0.1107 | 6,075.2038 |

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 | 0.0000 |
| Regional Shopping Center | 5084.93 | 0.0548 | 0.4985 | 0.4188 | 2.9900e-003 | | 0.0379 | 0.0379 | | 0.0379 | 0.0379 | | 598.2272 | 598.2272 | 0.0115 | 0.0110 | 601.8680 | |
| Apartments Low Rise | 46241.9 | 0.4987 | 4.2615 | 1.8134 | 0.0272 | | 0.3446 | 0.3446 | | 0.3446 | 0.3446 | | 5,440.2276 | 5,440.2276 | 0.1043 | 0.0997 | 5,473.3359 | |
| Total | | 0.5535 | 4.7600 | 2.2322 | 0.0302 | | 0.3824 | 0.3824 | | 0.3824 | 0.3824 | | 6,038.4548 | 6,038.4548 | 0.1157 | 0.1107 | 6,075.2038 | |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Regional Shopping Center | 3.97808 | 0.0429 | 0.3900 | 0.3276 | 2.3400e-003 | | 0.0296 | 0.0296 | | 0.0296 | 0.0296 | | 468.0097 | 468.0097 | 8.9700e-003 | 8.5800e-003 | 470.8579 |
| Apartments Low Rise | 36.7859 | 0.3967 | 3.3901 | 1.4426 | 0.0216 | | 0.2741 | 0.2741 | | 0.2741 | 0.2741 | | 4,327.7565 | 4,327.7565 | 0.0830 | 0.0793 | 4,354.0945 |
| 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 | | 0.4396 | 3.7801 | 1.7702 | 0.0240 | | 0.3037 | 0.3037 | | 0.3037 | 0.3037 | | 4,795.7662 | 4,795.7662 | 0.0919 | 0.0879 | 4,824.9524 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 53.6162 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |
| Unmitigated | 62.9285 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |

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 | 11.9296 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Consumer Products | 45.8191 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Hearth | 2.1489 | 1.0000e-004 | 0.1172 | 0.0000 | | 1.4847 | 1.4847 | | 1.4691 | 1.4691 | 0.0000 | 23,442.3529 | 23,442.3529 | 0.4493 | 0.4298 | | 23,585.0192 |
| Landscaping | 3.0309 | 1.1674 | 101.2014 | 5.3600e-003 | | 0.5630 | 0.5630 | | 0.5630 | 0.5630 | | 182.8950 | 182.8950 | 0.1744 | | | 186.5572 |
| Total | 62.9285 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | | 23,771.5764 |

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 | 2.6173 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 45.8191 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2.1489 | 1.0000e-004 | 0.1172 | 0.0000 | | 1.4847 | 1.4847 | | 1.4691 | 1.4691 | 0.0000 | 23,442.3529 | 23,442.3529 | 0.4493 | 0.4298 | 23,585.0192 |
| Landscaping | 3.0309 | 1.1674 | 101.2014 | 5.3600e-003 | | 0.5630 | 0.5630 | | 0.5630 | 0.5630 | | 182.8950 | 182.8950 | 0.1744 | | 186.5572 |
| Total | 53.6162 | 1.1675 | 101.3186 | 5.3600e-003 | | 2.0477 | 2.0477 | | 2.0321 | 2.0321 | 0.0000 | 23,625.2479 | 23,625.2479 | 0.6237 | 0.4298 | 23,771.5764 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy
 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

APPENDIX C

CalEEMod Model Annual Emissions Printouts

**6115a The Village Build-Out Plan
Riverside-Salton Sea County, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------|----------|---------------|-------------|--------------------|------------|
| Other Asphalt Surfaces | 2.55 | Acre | 2.55 | 111,078.00 | 0 |
| Apartments Low Rise | 1,230.00 | Dwelling Unit | 30.02 | 1,230,000.00 | 3518 |
| Regional Shopping Center | 800.00 | 1000sqft | 18.37 | 800,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 15 | | | Operational Year | 2035 |
| Utility Company | Imperial Irrigation District | | | | |
| CO2 Intensity (lb/MWhr) | 1270.9 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Redevelopment= 30.69 acres & Vacant land= 20.25 acre (total site acreage= 50.94). Approximately 5% of the total site on-site roadways/parking.

Construction Phase - Spring 2017 to beginning 2035. Construction timing proportionately based on CalEEMod defaults (4.7% demo, 7.4% grading, 75% building const. (+ 2.7% here as site prep. not needed), 5.1% paving, & 5.1% ac).

Demolition - Demolition of 511,456 SF

Grading - Site is a total of 50.94 acres.

Architectural Coating - SCAQMD Rule 1113 limits architectural coating to 50 g/L VOC. CalEEMod Appendix A calculations res. int. 1,845,000 ext. 621,665 & non-res 1,200,000 int. 406,665 ext. Ext. includes 6% of paved areas.

Vehicle Trips - As per TIA, trip generation is 38.56 trips per TSF for retail & 5.77 trips per DU for residential (includes the 13% reduction from intenal trips).

Woodstoves - SCAQMD Rule 445 prohibits permanently installed wood burning devices in new developments.

Area Coating - SCAQMD Rule 1115 limits architectural coating to 50 g/L VOC. CalEEMod Appendix A, non-res. int. 1,200,000 ext. 406,665 & residential int. 1,845,000 ext. 621,665. Ext. includes 6% paved areas.

Construction Off-road Equipment Mitigation -

Area Mitigation - SCAQMD Rule 1115 limits all architectural coating to 50 g/L VOC.

Energy Mitigation - 2013 Title 24 standards for residential are 25% more efficient than 2008 standards. Energy Star appliances to be installed on-site as needed. install high efficiency lighting that is at least 10% better than Title 24 requires.

Water Mitigation - Per Green Building Standards. Water-efficient landscaping installed per City requirements.

Waste Mitigation - AB 341 requires diversion of at least 75% of its waste away from landfills by 2020.

Sequestration -

Mobile Land Use Mitigation - 26.47 du/acre. 87 jobs per job acre. diversity = mix of residential, OS and commercial uses. 0.22 miles from Calle Tampico. Adjacent to at least 2 Sunline bus stops route 70 on Avenida Bermudas and Calle Sinaloa. Sidewalks connecting on and off-site.

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|--------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 455,539.00 | 406,665.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 1,366,617.00 | 1,200,000.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 830,250.00 | 621,665.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 2,490,750.00 | 1,845,000.00 |
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |

| | | | |
|---------------------------|---|----------|----------|
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 50 |
| tblAreaCoating | Area_Nonresidential_Interior | 1366617 | 1200000 |
| tblAreaCoating | Area_Residential_Exterior | 830250 | 621665 |
| tblAreaCoating | Area_Residential_Interior | 2490750 | 1845000 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 250 | 50 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 250 | 50 |
| tblAreaMitigation | UseLowVOCPaintResidentialInteriorValue | 250 | 50 |
| tblConstructionPhase | NumDays | 75.00 | 238.00 |
| tblConstructionPhase | NumDays | 1,110.00 | 3,626.00 |
| tblConstructionPhase | NumDays | 70.00 | 219.00 |
| tblConstructionPhase | NumDays | 110.00 | 345.00 |
| tblConstructionPhase | NumDays | 75.00 | 238.00 |
| tblFireplaces | NumberGas | 984.00 | 1,107.00 |
| tblFireplaces | NumberWood | 123.00 | 0.00 |
| tblGrading | AcresOfGrading | 862.50 | 275.00 |
| tblLandUse | LotAcreage | 76.88 | 30.02 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblVehicleTrips | ST_TR | 7.16 | 5.77 |
| tblVehicleTrips | ST_TR | 49.97 | 38.56 |
| tblVehicleTrips | SU_TR | 6.07 | 5.77 |
| tblVehicleTrips | SU_TR | 25.24 | 38.56 |
| tblVehicleTrips | WD_TR | 6.59 | 5.77 |
| tblVehicleTrips | WD_TR | 42.94 | 38.56 |
| tblWoodstoves | NumberCatalytic | 61.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 61.50 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2017 | 0.4437 | 4.6828 | 3.8351 | 5.0800e-003 | 0.2732 | 0.2267 | 0.4999 | 0.0453 | 0.2111 | 0.2564 | 0.0000 | 461.7675 | 461.7675 | 0.1054 | 0.0000 | 463.9805 |
| 2018 | 0.6882 | 7.6643 | 5.5685 | 8.2300e-003 | 1.2339 | 0.3589 | 1.5928 | 0.5981 | 0.3303 | 0.9284 | 0.0000 | 745.2694 | 745.2694 | 0.2257 | 0.0000 | 750.0079 |
| 2019 | 0.8403 | 5.9188 | 9.2968 | 0.0187 | 2.1159 | 0.2583 | 2.3741 | 0.8362 | 0.2398 | 1.0760 | 0.0000 | 1,429.2280 | 1,429.2280 | 0.1620 | 0.0000 | 1,432.6300 |
| 2020 | 0.8622 | 4.6839 | 10.8754 | 0.0247 | 1.4574 | 0.1928 | 1.6502 | 0.3904 | 0.1804 | 0.5708 | 0.0000 | 1,772.9750 | 1,772.9750 | 0.1202 | 0.0000 | 1,775.4996 |
| 2021 | 0.7930 | 4.1016 | 10.3643 | 0.0246 | 1.4518 | 0.1663 | 1.6181 | 0.3890 | 0.1556 | 0.5445 | 0.0000 | 1,750.9364 | 1,750.9364 | 0.1176 | 0.0000 | 1,753.4062 |
| 2022 | 0.7376 | 3.6798 | 9.9347 | 0.0245 | 1.4463 | 0.1458 | 1.5921 | 0.3875 | 0.1364 | 0.5239 | 0.0000 | 1,729.0331 | 1,729.0331 | 0.1151 | 0.0000 | 1,731.4509 |
| 2023 | 0.6872 | 3.3441 | 9.5204 | 0.0245 | 1.4463 | 0.1304 | 1.5766 | 0.3875 | 0.1219 | 0.5094 | 0.0000 | 1,714.9642 | 1,714.9642 | 0.1131 | 0.0000 | 1,717.3391 |
| 2024 | 0.6613 | 3.2236 | 9.3542 | 0.0249 | 1.4574 | 0.1198 | 1.5772 | 0.3904 | 0.1119 | 0.5024 | 0.0000 | 1,731.1916 | 1,731.1916 | 0.1138 | 0.0000 | 1,733.5807 |
| 2025 | 0.6289 | 3.0610 | 9.1145 | 0.0248 | 1.4518 | 0.1084 | 1.5602 | 0.3890 | 0.1012 | 0.4901 | 0.0000 | 1,714.8277 | 1,714.8277 | 0.1120 | 0.0000 | 1,717.1796 |
| 2026 | 0.6133 | 3.0328 | 8.9115 | 0.0248 | 1.4518 | 0.1081 | 1.5600 | 0.3890 | 0.1010 | 0.4899 | 0.0000 | 1,706.5545 | 1,706.5545 | 0.1112 | 0.0000 | 1,708.8903 |
| 2027 | 0.6040 | 3.0154 | 8.7865 | 0.0248 | 1.4518 | 0.1083 | 1.5601 | 0.3890 | 0.1011 | 0.4901 | 0.0000 | 1,699.5782 | 1,699.5782 | 0.1106 | 0.0000 | 1,701.9004 |
| 2028 | 0.5917 | 2.9883 | 8.6454 | 0.0247 | 1.4463 | 0.1079 | 1.5542 | 0.3875 | 0.1008 | 0.4882 | 0.0000 | 1,687.1935 | 1,687.1935 | 0.1096 | 0.0000 | 1,689.4948 |
| 2029 | 0.5858 | 2.9865 | 8.5753 | 0.0248 | 1.4519 | 0.1084 | 1.5602 | 0.3890 | 0.1012 | 0.4902 | 0.0000 | 1,688.7357 | 1,688.7357 | 0.1095 | 0.0000 | 1,691.0343 |
| 2030 | 0.5706 | 2.3885 | 8.5031 | 0.0253 | 1.4519 | 0.0592 | 1.5110 | 0.3890 | 0.0561 | 0.4450 | 0.0000 | 1,724.7281 | 1,724.7281 | 0.0519 | 0.0000 | 1,725.8183 |
| 2031 | 0.5675 | 2.3886 | 8.5087 | 0.0257 | 1.4520 | 0.0585 | 1.5105 | 0.3890 | 0.0554 | 0.4444 | 0.0000 | 1,745.1320 | 1,745.1320 | 0.0535 | 0.0000 | 1,746.2556 |

| | ROG | NOx | CO | SO2 | 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 | | | | | |
| 2032 | 0.5637 | 2.3912 | 8.4815 | 0.0258 | 1.4577 | 0.0588 | 1.5165 | 0.3906 | 0.0557 | 0.4463 | 0.0000 | 1,749.4913 | 1,749.4913 | 0.0533 | 0.0000 | 1,750.6114 |
| 2033 | 0.2781 | 1.2860 | 3.6843 | 9.3900e-003 | 0.3847 | 0.0464 | 0.4311 | 0.1031 | 0.0456 | 0.1486 | 0.0000 | 682.7792 | 682.7792 | 0.0246 | 0.0000 | 683.2950 |
| 2034 | 4.3432 | 0.2954 | 1.0866 | 3.5500e-003 | 0.2133 | 0.0111 | 0.2244 | 0.0566 | 0.0110 | 0.0676 | 0.0000 | 228.1274 | 228.1274 | 9.5200e-003 | 0.0000 | 228.3274 |
| 2035 | 0.4610 | 0.0136 | 0.0774 | 3.1000e-004 | 0.0225 | 2.9000e-004 | 0.0228 | 5.9800e-003 | 2.7000e-004 | 6.2600e-003 | 0.0000 | 18.4928 | 18.4928 | 7.3000e-004 | 0.0000 | 18.5081 |
| Total | 15.5212 | 61.1460 | 143.1241 | 0.3689 | 23.1178 | 2.3740 | 25.4918 | 6.7019 | 2.2165 | 8.9184 | 0.0000 | 25,981.0056 | 25,981.0056 | 1.8193 | 0.0000 | 26,019.2101 |

2.1 Overall Construction

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 | 0.4437 | 4.6828 | 3.8351 | 5.0800e-003 | 0.1265 | 0.2267 | 0.3532 | 0.0230 | 0.2111 | 0.2341 | 0.0000 | 461.7671 | 461.7671 | 0.1054 | 0.0000 | 463.9801 |
| 2018 | 0.6882 | 7.6643 | 5.5685 | 8.2300e-003 | 0.5036 | 0.3589 | 0.8624 | 0.2390 | 0.3303 | 0.5693 | 0.0000 | 745.2685 | 745.2685 | 0.2256 | 0.0000 | 750.0071 |
| 2019 | 0.8403 | 5.9188 | 9.2968 | 0.0187 | 1.3932 | 0.2583 | 1.6515 | 0.4783 | 0.2398 | 0.7181 | 0.0000 | 1,429.2274 | 1,429.2274 | 0.1620 | 0.0000 | 1,432.6294 |
| 2020 | 0.8622 | 4.6839 | 10.8754 | 0.0247 | 1.4574 | 0.1928 | 1.6502 | 0.3904 | 0.1804 | 0.5708 | 0.0000 | 1,772.9746 | 1,772.9746 | 0.1202 | 0.0000 | 1,775.4992 |
| 2021 | 0.7930 | 4.1016 | 10.3643 | 0.0246 | 1.4518 | 0.1663 | 1.6181 | 0.3890 | 0.1556 | 0.5445 | 0.0000 | 1,750.9361 | 1,750.9361 | 0.1176 | 0.0000 | 1,753.4059 |
| 2022 | 0.7376 | 3.6798 | 9.9347 | 0.0245 | 1.4463 | 0.1458 | 1.5921 | 0.3875 | 0.1364 | 0.5239 | 0.0000 | 1,729.0327 | 1,729.0327 | 0.1151 | 0.0000 | 1,731.4505 |
| 2023 | 0.6872 | 3.3441 | 9.5204 | 0.0245 | 1.4463 | 0.1304 | 1.5766 | 0.3875 | 0.1219 | 0.5094 | 0.0000 | 1,714.9638 | 1,714.9638 | 0.1131 | 0.0000 | 1,717.3387 |
| 2024 | 0.6613 | 3.2236 | 9.3542 | 0.0249 | 1.4574 | 0.1198 | 1.5772 | 0.3904 | 0.1119 | 0.5024 | 0.0000 | 1,731.1912 | 1,731.1912 | 0.1138 | 0.0000 | 1,733.5803 |

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 | 10.9000 | 0.1051 | 9.1129 | 4.8000e-004 | | 0.1115 | 0.1115 | | 0.1109 | 0.1109 | 0.0000 | 886.8611 | 886.8611 | 0.0310 | 0.0160 | 892.4665 |
| Energy | 0.1010 | 0.8687 | 0.4074 | 5.5100e-003 | | 0.0698 | 0.0698 | | 0.0698 | 0.0698 | 0.0000 | 11,113.1709 | 11,113.1709 | 0.2499 | 0.0661 | 11,138.9027 |
| Mobile | 11.5163 | 23.2511 | 126.3462 | 0.3480 | 21.5559 | 0.6198 | 22.1757 | 5.7601 | 0.5717 | 6.3317 | 0.0000 | 22,592.7479 | 22,592.7479 | 0.6280 | 0.0000 | 22,605.9364 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 285.3647 | 0.0000 | 285.3647 | 16.8646 | 0.0000 | 639.5207 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 44.2244 | 1,602.5365 | 1,646.7609 | 4.5788 | 0.1148 | 1,778.5102 |
| Total | 22.5174 | 24.2249 | 135.8665 | 0.3540 | 21.5559 | 0.8011 | 22.3570 | 5.7601 | 0.7523 | 6.5124 | 329.5891 | 36,195.3164 | 36,524.9055 | 22.3523 | 0.1969 | 37,055.3365 |

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 | 9.2005 | 0.1051 | 9.1129 | 4.8000e-004 | | 0.1115 | 0.1115 | | 0.1109 | 0.1109 | 0.0000 | 886.8611 | 886.8611 | 0.0310 | 0.0160 | 892.4665 |
| Energy | 0.0802 | 0.6899 | 0.3231 | 4.3800e-003 | | 0.0554 | 0.0554 | | 0.0554 | 0.0554 | 0.0000 | 9,612.3959 | 9,612.3959 | 0.2164 | 0.0562 | 9,634.3597 |
| Mobile | 10.7239 | 17.5003 | 104.1506 | 0.2139 | 12.7221 | 0.3991 | 13.1212 | 3.3996 | 0.3683 | 3.7678 | 0.0000 | 13,884.1572 | 13,884.1572 | 0.4017 | 0.0000 | 13,892.5936 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 142.6824 | 0.0000 | 142.6824 | 8.4323 | 0.0000 | 319.7603 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 35.3795 | 1,364.2132 | 1,399.5927 | 3.6649 | 0.0922 | 1,505.1518 |
| Total | 20.0047 | 18.2953 | 113.5866 | 0.2187 | 12.7221 | 0.5661 | 13.2882 | 3.3996 | 0.5346 | 3.9342 | 178.0619 | 25,747.6274 | 25,925.6893 | 12.7464 | 0.1644 | 26,244.3320 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Percent Reduction | 11.16 | 24.48 | 16.40 | 38.20 | 40.98 | 29.34 | 40.56 | 40.98 | 28.94 | 39.59 | 45.97 | 28.86 | 29.02 | 42.98 | 16.49 | 29.18 |

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 | 3/15/2017 | 1/15/2018 | 5 | 219 | |
| 2 | Grading | Grading | 1/16/2018 | 5/13/2019 | 5 | 345 | |
| 3 | Building Construction | Building Construction | 5/14/2019 | 4/5/2033 | 5 | 3626 | |
| 4 | Paving | Paving | 4/6/2033 | 3/3/2034 | 5 | 238 | |
| 5 | Architectural Coating | Architectural Coating | 3/4/2034 | 1/31/2035 | 5 | 238 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

**Residential Indoor: 1,845,000; Residential Outdoor: 621,665; Non-Residential Indoor: 1,200,000; Non-Residential Outdoor: 406,665
(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 |
| 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 | 2,326.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 1,188.00 | 281.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 238.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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 | | | | | 0.2406 | 0.0000 | 0.2406 | 0.0364 | 0.0000 | 0.0364 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.4210 | 4.4405 | 3.5249 | 4.1500e-003 | | 0.2210 | 0.2210 | | 0.2059 | 0.2059 | 0.0000 | 380.8295 | 380.8295 | 0.1045 | 0.0000 | 383.0234 |
| Total | 0.4210 | 4.4405 | 3.5249 | 4.1500e-003 | 0.2406 | 0.2210 | 0.4616 | 0.0364 | 0.2059 | 0.2423 | 0.0000 | 380.8295 | 380.8295 | 0.1045 | 0.0000 | 383.0234 |

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 | 0.0183 | 0.2365 | 0.2484 | 7.8000e-004 | 0.0198 | 5.5700e-003 | 0.0254 | 5.4200e-003 | 5.1300e-003 | 0.0106 | 0.0000 | 70.1165 | 70.1165 | 3.9000e-004 | 0.0000 | 70.1247 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3600e-003 | 5.7600e-003 | 0.0617 | 1.5000e-004 | 0.0128 | 8.0000e-005 | 0.0129 | 3.4100e-003 | 7.0000e-005 | 3.4800e-003 | 0.0000 | 10.8216 | 10.8216 | 5.2000e-004 | 0.0000 | 10.8325 |
| Total | 0.0226 | 0.2423 | 0.3102 | 9.3000e-004 | 0.0327 | 5.6500e-003 | 0.0383 | 8.8300e-003 | 5.2000e-003 | 0.0140 | 0.0000 | 80.9381 | 80.9381 | 9.1000e-004 | 0.0000 | 80.9572 |

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 | | | | | 0.0938 | 0.0000 | 0.0938 | 0.0142 | 0.0000 | 0.0142 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.4210 | 4.4405 | 3.5249 | 4.1500e-003 | | 0.2210 | 0.2210 | | 0.2059 | 0.2059 | 0.0000 | 380.8290 | 380.8290 | 0.1045 | 0.0000 | 383.0229 |
| Total | 0.4210 | 4.4405 | 3.5249 | 4.1500e-003 | 0.0938 | 0.2210 | 0.3148 | 0.0142 | 0.2059 | 0.2201 | 0.0000 | 380.8290 | 380.8290 | 0.1045 | 0.0000 | 383.0229 |

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 | 0.0183 | 0.2365 | 0.2484 | 7.8000e-004 | 0.0198 | 5.5700e-003 | 0.0254 | 5.4200e-003 | 5.1300e-003 | 0.0106 | 0.0000 | 70.1165 | 70.1165 | 3.9000e-004 | 0.0000 | 70.1247 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3600e-003 | 5.7600e-003 | 0.0617 | 1.5000e-004 | 0.0128 | 8.0000e-005 | 0.0129 | 3.4100e-003 | 7.0000e-005 | 3.4800e-003 | 0.0000 | 10.8216 | 10.8216 | 5.2000e-004 | 0.0000 | 10.8325 |
| Total | 0.0226 | 0.2423 | 0.3102 | 9.3000e-004 | 0.0327 | 5.6500e-003 | 0.0383 | 8.8300e-003 | 5.2000e-003 | 0.0140 | 0.0000 | 80.9381 | 80.9381 | 9.1000e-004 | 0.0000 | 80.9572 |

3.2 Demolition - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0127 | 0.0000 | 0.0127 | 1.9300e-003 | 0.0000 | 1.9300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0196 | 0.2026 | 0.1745 | 2.2000e-004 | | 9.9500e-003 | 9.9500e-003 | | 9.2700e-003 | 9.2700e-003 | 0.0000 | 19.8749 | 19.8749 | 5.5000e-003 | 0.0000 | 19.9903 |
| Total | 0.0196 | 0.2026 | 0.1745 | 2.2000e-004 | 0.0127 | 9.9500e-003 | 0.0227 | 1.9300e-003 | 9.2700e-003 | 0.0112 | 0.0000 | 19.8749 | 19.8749 | 5.5000e-003 | 0.0000 | 19.9903 |

3.2 Demolition - 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 | 9.3000e-004 | 0.0113 | 0.0129 | 4.0000e-005 | 0.0153 | 2.9000e-004 | 0.0156 | 3.7900e-003 | 2.7000e-004 | 4.0600e-003 | 0.0000 | 3.6440 | 3.6440 | 2.0000e-005 | 0.0000 | 3.6444 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.1000e-004 | 2.8000e-004 | 2.9600e-003 | 1.0000e-005 | 6.8000e-004 | 0.0000 | 6.8000e-004 | 1.8000e-004 | 0.0000 | 1.8000e-004 | 0.0000 | 0.5504 | 0.5504 | 3.0000e-005 | 0.0000 | 0.5510 |
| Total | 1.1400e-003 | 0.0116 | 0.0158 | 5.0000e-005 | 0.0160 | 2.9000e-004 | 0.0163 | 3.9700e-003 | 2.7000e-004 | 4.2400e-003 | 0.0000 | 4.1944 | 4.1944 | 5.0000e-005 | 0.0000 | 4.1954 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 4.9600e-003 | 0.0000 | 4.9600e-003 | 7.5000e-004 | 0.0000 | 7.5000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0196 | 0.2026 | 0.1745 | 2.2000e-004 | | 9.9500e-003 | 9.9500e-003 | | 9.2700e-003 | 9.2700e-003 | 0.0000 | 19.8749 | 19.8749 | 5.5000e-003 | 0.0000 | 19.9903 |
| Total | 0.0196 | 0.2026 | 0.1745 | 2.2000e-004 | 4.9600e-003 | 9.9500e-003 | 0.0149 | 7.5000e-004 | 9.2700e-003 | 0.0100 | 0.0000 | 19.8749 | 19.8749 | 5.5000e-003 | 0.0000 | 19.9903 |

3.2 Demolition - 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 | 9.3000e-004 | 0.0113 | 0.0129 | 4.0000e-005 | 0.0153 | 2.9000e-004 | 0.0156 | 3.7900e-003 | 2.7000e-004 | 4.0600e-003 | 0.0000 | 3.6440 | 3.6440 | 2.0000e-005 | 0.0000 | 3.6444 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.1000e-004 | 2.8000e-004 | 2.9600e-003 | 1.0000e-005 | 6.8000e-004 | 0.0000 | 6.8000e-004 | 1.8000e-004 | 0.0000 | 1.8000e-004 | 0.0000 | 0.5504 | 0.5504 | 3.0000e-005 | 0.0000 | 0.5510 |
| Total | 1.1400e-003 | 0.0116 | 0.0158 | 5.0000e-005 | 0.0160 | 2.9000e-004 | 0.0163 | 3.9700e-003 | 2.7000e-004 | 4.2400e-003 | 0.0000 | 4.1944 | 4.1944 | 5.0000e-005 | 0.0000 | 4.1954 |

3.3 Grading - 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 | | | | | |
| Fugitive Dust | | | | | 1.1846 | 0.0000 | 1.1846 | 0.5868 | 0.0000 | 0.5868 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.6612 | 7.4417 | 5.2884 | 7.7100e-003 | | 0.3485 | 0.3485 | | 0.3206 | 0.3206 | 0.0000 | 704.5201 | 704.5201 | 0.2193 | 0.0000 | 709.1260 |
| Total | 0.6612 | 7.4417 | 5.2884 | 7.7100e-003 | 1.1846 | 0.3485 | 1.5331 | 0.5868 | 0.3206 | 0.9074 | 0.0000 | 704.5201 | 704.5201 | 0.2193 | 0.0000 | 709.1260 |

3.3 Grading - 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 | 6.3000e-003 | 8.3800e-003 | 0.0898 | 2.4000e-004 | 0.0206 | 1.3000e-004 | 0.0207 | 5.4600e-003 | 1.2000e-004 | 5.5800e-003 | 0.0000 | 16.6799 | 16.6799 | 7.8000e-004 | 0.0000 | 16.6962 |
| Total | 6.3000e-003 | 8.3800e-003 | 0.0898 | 2.4000e-004 | 0.0206 | 1.3000e-004 | 0.0207 | 5.4600e-003 | 1.2000e-004 | 5.5800e-003 | 0.0000 | 16.6799 | 16.6799 | 7.8000e-004 | 0.0000 | 16.6962 |

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 | | | | | 0.4620 | 0.0000 | 0.4620 | 0.2288 | 0.0000 | 0.2288 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.6612 | 7.4417 | 5.2883 | 7.7100e-003 | | 0.3485 | 0.3485 | | 0.3206 | 0.3206 | 0.0000 | 704.5193 | 704.5193 | 0.2193 | 0.0000 | 709.1252 |
| Total | 0.6612 | 7.4417 | 5.2883 | 7.7100e-003 | 0.4620 | 0.3485 | 0.8105 | 0.2288 | 0.3206 | 0.5495 | 0.0000 | 704.5193 | 704.5193 | 0.2193 | 0.0000 | 709.1252 |

3.3 Grading - 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 | 6.3000e-003 | 8.3800e-003 | 0.0898 | 2.4000e-004 | 0.0206 | 1.3000e-004 | 0.0207 | 5.4600e-003 | 1.2000e-004 | 5.5800e-003 | 0.0000 | 16.6799 | 16.6799 | 7.8000e-004 | 0.0000 | 16.6962 |
| Total | 6.3000e-003 | 8.3800e-003 | 0.0898 | 2.4000e-004 | 0.0206 | 1.3000e-004 | 0.0207 | 5.4600e-003 | 1.2000e-004 | 5.5800e-003 | 0.0000 | 16.6799 | 16.6799 | 7.8000e-004 | 0.0000 | 16.6962 |

3.3 Grading - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.1846 | 0.0000 | 1.1846 | 0.5868 | 0.0000 | 0.5868 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.2323 | 2.5744 | 1.9137 | 2.9300e-003 | | 0.1190 | 0.1190 | | 0.1095 | 0.1095 | 0.0000 | 263.3442 | 263.3442 | 0.0833 | 0.0000 | 265.0939 |
| Total | 0.2323 | 2.5744 | 1.9137 | 2.9300e-003 | 1.1846 | 0.1190 | 1.3036 | 0.5868 | 0.1095 | 0.6962 | 0.0000 | 263.3442 | 263.3442 | 0.0833 | 0.0000 | 265.0939 |

3.3 Grading - 2019

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.2000e-003 | 2.9200e-003 | 0.0316 | 9.0000e-005 | 7.8200e-003 | 5.0000e-005 | 7.8600e-003 | 2.0800e-003 | 5.0000e-005 | 2.1200e-003 | 0.0000 | 6.0995 | 6.0995 | 2.8000e-004 | 0.0000 | 6.1054 |
| Total | 2.2000e-003 | 2.9200e-003 | 0.0316 | 9.0000e-005 | 7.8200e-003 | 5.0000e-005 | 7.8600e-003 | 2.0800e-003 | 5.0000e-005 | 2.1200e-003 | 0.0000 | 6.0995 | 6.0995 | 2.8000e-004 | 0.0000 | 6.1054 |

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 | | | | | 0.4620 | 0.0000 | 0.4620 | 0.2288 | 0.0000 | 0.2288 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.2323 | 2.5744 | 1.9137 | 2.9300e-003 | | 0.1190 | 0.1190 | | 0.1095 | 0.1095 | 0.0000 | 263.3439 | 263.3439 | 0.0833 | 0.0000 | 265.0936 |
| Total | 0.2323 | 2.5744 | 1.9137 | 2.9300e-003 | 0.4620 | 0.1190 | 0.5810 | 0.2288 | 0.1095 | 0.3383 | 0.0000 | 263.3439 | 263.3439 | 0.0833 | 0.0000 | 265.0936 |

3.3 Grading - 2019

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.2000e-003 | 2.9200e-003 | 0.0316 | 9.0000e-005 | 7.8200e-003 | 5.0000e-005 | 7.8600e-003 | 2.0800e-003 | 5.0000e-005 | 2.1200e-003 | 0.0000 | 6.0995 | 6.0995 | 2.8000e-004 | 0.0000 | 6.1054 |
| Total | 2.2000e-003 | 2.9200e-003 | 0.0316 | 9.0000e-005 | 7.8200e-003 | 5.0000e-005 | 7.8600e-003 | 2.0800e-003 | 5.0000e-005 | 2.1200e-003 | 0.0000 | 6.0995 | 6.0995 | 2.8000e-004 | 0.0000 | 6.1054 |

3.4 Building Construction - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1952 | 1.7401 | 1.4210 | 2.2200e-003 | | 0.1067 | 0.1067 | | 0.1003 | 0.1003 | 0.0000 | 194.3219 | 194.3219 | 0.0473 | 0.0000 | 195.3148 |
| Total | 0.1952 | 1.7401 | 1.4210 | 2.2200e-003 | | 0.1067 | 0.1067 | | 0.1003 | 0.1003 | 0.0000 | 194.3219 | 194.3219 | 0.0473 | 0.0000 | 195.3148 |

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.1821 | 1.2980 | 2.6487 | 3.8500e-003 | 0.1122 | 0.0275 | 0.1397 | 0.0319 | 0.0253 | 0.0572 | 0.0000 | 332.3720 | 332.3720 | 2.1800e-003 | 0.0000 | 332.4178 |
| Worker | 0.2285 | 0.3033 | 3.2818 | 9.5600e-003 | 0.8112 | 5.0700e-003 | 0.8163 | 0.2155 | 4.7000e-003 | 0.2202 | 0.0000 | 633.0904 | 633.0904 | 0.0289 | 0.0000 | 633.6981 |
| Total | 0.4106 | 1.6013 | 5.9305 | 0.0134 | 0.9234 | 0.0326 | 0.9560 | 0.2474 | 0.0300 | 0.2774 | 0.0000 | 965.4623 | 965.4623 | 0.0311 | 0.0000 | 966.1159 |

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 | 0.1952 | 1.7401 | 1.4210 | 2.2200e-003 | | 0.1067 | 0.1067 | | 0.1003 | 0.1003 | 0.0000 | 194.3217 | 194.3217 | 0.0473 | 0.0000 | 195.3145 |
| Total | 0.1952 | 1.7401 | 1.4210 | 2.2200e-003 | | 0.1067 | 0.1067 | | 0.1003 | 0.1003 | 0.0000 | 194.3217 | 194.3217 | 0.0473 | 0.0000 | 195.3145 |

3.4 Building Construction - 2019

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.1821 | 1.2980 | 2.6487 | 3.8500e-003 | 0.1122 | 0.0275 | 0.1397 | 0.0319 | 0.0253 | 0.0572 | 0.0000 | 332.3720 | 332.3720 | 2.1800e-003 | 0.0000 | 332.4178 |
| Worker | 0.2285 | 0.3033 | 3.2818 | 9.5600e-003 | 0.8112 | 5.0700e-003 | 0.8163 | 0.2155 | 4.7000e-003 | 0.2202 | 0.0000 | 633.0904 | 633.0904 | 0.0289 | 0.0000 | 633.6981 |
| Total | 0.4106 | 1.6013 | 5.9305 | 0.0134 | 0.9234 | 0.0326 | 0.9560 | 0.2474 | 0.0300 | 0.2774 | 0.0000 | 965.4623 | 965.4623 | 0.0311 | 0.0000 | 966.1159 |

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 | 0.2766 | 2.5000 | 2.2019 | 3.5100e-003 | | 0.1458 | 0.1458 | | 0.1371 | 0.1371 | 0.0000 | 302.1514 | 302.1514 | 0.0736 | 0.0000 | 303.6973 |
| Total | 0.2766 | 2.5000 | 2.2019 | 3.5100e-003 | | 0.1458 | 0.1458 | | 0.1371 | 0.1371 | 0.0000 | 302.1514 | 302.1514 | 0.0736 | 0.0000 | 303.6973 |

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 | 0.2498 | 1.7400 | 3.8538 | 6.0600e-003 | 0.1770 | 0.0389 | 0.2159 | 0.0504 | 0.0358 | 0.0862 | 0.0000 | 512.4404 | 512.4404 | 3.3100e-003 | 0.0000 | 512.5098 |
| Worker | 0.3359 | 0.4439 | 4.8197 | 0.0151 | 1.2804 | 8.0800e-003 | 1.2885 | 0.3401 | 7.4900e-003 | 0.3475 | 0.0000 | 958.3832 | 958.3832 | 0.0433 | 0.0000 | 959.2925 |
| Total | 0.5856 | 2.1839 | 8.6735 | 0.0211 | 1.4574 | 0.0470 | 1.5044 | 0.3905 | 0.0433 | 0.4338 | 0.0000 | 1,470.8236 | 1,470.8236 | 0.0466 | 0.0000 | 1,471.8023 |

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 | 0.2766 | 2.5000 | 2.2019 | 3.5100e-003 | | 0.1458 | 0.1458 | | 0.1371 | 0.1371 | 0.0000 | 302.1510 | 302.1510 | 0.0736 | 0.0000 | 303.6969 |
| Total | 0.2766 | 2.5000 | 2.2019 | 3.5100e-003 | | 0.1458 | 0.1458 | | 0.1371 | 0.1371 | 0.0000 | 302.1510 | 302.1510 | 0.0736 | 0.0000 | 303.6969 |

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 | 0.2498 | 1.7400 | 3.8538 | 6.0600e-003 | 0.1770 | 0.0389 | 0.2159 | 0.0504 | 0.0358 | 0.0862 | 0.0000 | 512.4404 | 512.4404 | 3.3100e-003 | 0.0000 | 512.5098 |
| Worker | 0.3359 | 0.4439 | 4.8197 | 0.0151 | 1.2804 | 8.0800e-003 | 1.2885 | 0.3401 | 7.4900e-003 | 0.3475 | 0.0000 | 958.3832 | 958.3832 | 0.0433 | 0.0000 | 959.2925 |
| Total | 0.5856 | 2.1839 | 8.6735 | 0.0211 | 1.4574 | 0.0470 | 1.5044 | 0.3905 | 0.0433 | 0.4338 | 0.0000 | 1,470.8236 | 1,470.8236 | 0.0466 | 0.0000 | 1,471.8023 |

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 | 0.2471 | 2.2629 | 2.1582 | 3.5000e-003 | | 0.1246 | 0.1246 | | 0.1172 | 0.1172 | 0.0000 | 301.0339 | 301.0339 | 0.0725 | 0.0000 | 302.5568 |
| Total | 0.2471 | 2.2629 | 2.1582 | 3.5000e-003 | | 0.1246 | 0.1246 | | 0.1172 | 0.1172 | 0.0000 | 301.0339 | 301.0339 | 0.0725 | 0.0000 | 302.5568 |

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 | 0.2303 | 1.4245 | 3.6432 | 6.0300e-003 | 0.1763 | 0.0334 | 0.2097 | 0.0502 | 0.0307 | 0.0809 | 0.0000 | 509.8375 | 509.8375 | 3.3300e-003 | 0.0000 | 509.9075 |
| Worker | 0.3157 | 0.4142 | 4.5630 | 0.0151 | 1.2755 | 8.2500e-003 | 1.2838 | 0.3388 | 7.6500e-003 | 0.3464 | 0.0000 | 940.0651 | 940.0651 | 0.0418 | 0.0000 | 940.9420 |
| Total | 0.5459 | 1.8387 | 8.2061 | 0.0211 | 1.4518 | 0.0417 | 1.4935 | 0.3890 | 0.0384 | 0.4273 | 0.0000 | 1,449.9026 | 1,449.9026 | 0.0451 | 0.0000 | 1,450.8494 |

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 | 0.2471 | 2.2629 | 2.1582 | 3.5000e-003 | | 0.1246 | 0.1246 | | 0.1172 | 0.1172 | 0.0000 | 301.0335 | 301.0335 | 0.0725 | 0.0000 | 302.5565 |
| Total | 0.2471 | 2.2629 | 2.1582 | 3.5000e-003 | | 0.1246 | 0.1246 | | 0.1172 | 0.1172 | 0.0000 | 301.0335 | 301.0335 | 0.0725 | 0.0000 | 302.5565 |

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 | 0.2303 | 1.4245 | 3.6432 | 6.0300e-003 | 0.1763 | 0.0334 | 0.2097 | 0.0502 | 0.0307 | 0.0809 | 0.0000 | 509.8375 | 509.8375 | 3.3300e-003 | 0.0000 | 509.9075 |
| Worker | 0.3157 | 0.4142 | 4.5630 | 0.0151 | 1.2755 | 8.2500e-003 | 1.2838 | 0.3388 | 7.6500e-003 | 0.3464 | 0.0000 | 940.0651 | 940.0651 | 0.0418 | 0.0000 | 940.9420 |
| Total | 0.5459 | 1.8387 | 8.2061 | 0.0211 | 1.4518 | 0.0417 | 1.4935 | 0.3890 | 0.0384 | 0.4273 | 0.0000 | 1,449.9026 | 1,449.9026 | 0.0451 | 0.0000 | 1,450.8494 |

3.4 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2209 | 2.0197 | 2.1226 | 3.4900e-003 | | 0.1047 | 0.1047 | | 0.0986 | 0.0986 | 0.0000 | 299.9946 | 299.9946 | 0.0718 | 0.0000 | 301.5017 |
| Total | 0.2209 | 2.0197 | 2.1226 | 3.4900e-003 | | 0.1047 | 0.1047 | | 0.0986 | 0.0986 | 0.0000 | 299.9946 | 299.9946 | 0.0718 | 0.0000 | 301.5017 |

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2199 | 1.2715 | 3.5229 | 5.9900e-003 | 0.1757 | 0.0328 | 0.2084 | 0.0500 | 0.0301 | 0.0801 | 0.0000 | 507.3396 | 507.3396 | 3.3800e-003 | 0.0000 | 507.4106 |
| Worker | 0.2968 | 0.3885 | 4.2892 | 0.0150 | 1.2706 | 8.3100e-003 | 1.2789 | 0.3375 | 7.7100e-003 | 0.3452 | 0.0000 | 921.6988 | 921.6988 | 0.0400 | 0.0000 | 922.5386 |
| Total | 0.5167 | 1.6601 | 7.8121 | 0.0210 | 1.4463 | 0.0411 | 1.4873 | 0.3875 | 0.0378 | 0.4253 | 0.0000 | 1,429.0385 | 1,429.0385 | 0.0434 | 0.0000 | 1,429.9492 |

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 | 0.2209 | 2.0197 | 2.1226 | 3.4900e-003 | | 0.1047 | 0.1047 | | 0.0986 | 0.0986 | 0.0000 | 299.9943 | 299.9943 | 0.0718 | 0.0000 | 301.5013 |
| Total | 0.2209 | 2.0197 | 2.1226 | 3.4900e-003 | | 0.1047 | 0.1047 | | 0.0986 | 0.0986 | 0.0000 | 299.9943 | 299.9943 | 0.0718 | 0.0000 | 301.5013 |

3.4 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2199 | 1.2715 | 3.5229 | 5.9900e-003 | 0.1757 | 0.0328 | 0.2084 | 0.0500 | 0.0301 | 0.0801 | 0.0000 | 507.3396 | 507.3396 | 3.3800e-003 | 0.0000 | 507.4106 |
| Worker | 0.2968 | 0.3885 | 4.2892 | 0.0150 | 1.2706 | 8.3100e-003 | 1.2789 | 0.3375 | 7.7100e-003 | 0.3452 | 0.0000 | 921.6988 | 921.6988 | 0.0400 | 0.0000 | 922.5386 |
| Total | 0.5167 | 1.6601 | 7.8121 | 0.0210 | 1.4463 | 0.0411 | 1.4873 | 0.3875 | 0.0378 | 0.4253 | 0.0000 | 1,429.0385 | 1,429.0385 | 0.0434 | 0.0000 | 1,429.9492 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2036 | 1.8606 | 2.1072 | 3.4900e-003 | | 0.0906 | 0.0906 | | 0.0852 | 0.0852 | 0.0000 | 300.0980 | 300.0980 | 0.0713 | 0.0000 | 301.5949 |
| Total | 0.2036 | 1.8606 | 2.1072 | 3.4900e-003 | | 0.0906 | 0.0906 | | 0.0852 | 0.0852 | 0.0000 | 300.0980 | 300.0980 | 0.0713 | 0.0000 | 301.5949 |

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2025 | 1.1155 | 3.3472 | 5.9800e-003 | 0.1756 | 0.0314 | 0.2071 | 0.0500 | 0.0289 | 0.0789 | 0.0000 | 506.1717 | 506.1717 | 3.1800e-003 | 0.0000 | 506.2384 |
| Worker | 0.2811 | 0.3680 | 4.0660 | 0.0150 | 1.2706 | 8.4000e-003 | 1.2790 | 0.3375 | 7.7900e-003 | 0.3452 | 0.0000 | 908.6945 | 908.6945 | 0.0386 | 0.0000 | 909.5057 |
| Total | 0.4836 | 1.4835 | 7.4132 | 0.0210 | 1.4463 | 0.0398 | 1.4861 | 0.3875 | 0.0367 | 0.4242 | 0.0000 | 1,414.8662 | 1,414.8662 | 0.0418 | 0.0000 | 1,415.7442 |

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 | 0.2036 | 1.8606 | 2.1072 | 3.4900e-003 | | 0.0906 | 0.0906 | | 0.0852 | 0.0852 | 0.0000 | 300.0976 | 300.0976 | 0.0713 | 0.0000 | 301.5946 |
| Total | 0.2036 | 1.8606 | 2.1072 | 3.4900e-003 | | 0.0906 | 0.0906 | | 0.0852 | 0.0852 | 0.0000 | 300.0976 | 300.0976 | 0.0713 | 0.0000 | 301.5946 |

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2025 | 1.1155 | 3.3472 | 5.9800e-003 | 0.1756 | 0.0314 | 0.2071 | 0.0500 | 0.0289 | 0.0789 | 0.0000 | 506.1717 | 506.1717 | 3.1800e-003 | 0.0000 | 506.2384 |
| Worker | 0.2811 | 0.3680 | 4.0660 | 0.0150 | 1.2706 | 8.4000e-003 | 1.2790 | 0.3375 | 7.7900e-003 | 0.3452 | 0.0000 | 908.6945 | 908.6945 | 0.0386 | 0.0000 | 909.5057 |
| Total | 0.4836 | 1.4835 | 7.4132 | 0.0210 | 1.4463 | 0.0398 | 1.4861 | 0.3875 | 0.0367 | 0.4242 | 0.0000 | 1,414.8662 | 1,414.8662 | 0.0418 | 0.0000 | 1,415.7442 |

3.4 Building Construction - 2024

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 | 0.1920 | 1.7524 | 2.1135 | 3.5200e-003 | | 0.0800 | 0.0800 | | 0.0752 | 0.0752 | 0.0000 | 302.4646 | 302.4646 | 0.0714 | 0.0000 | 303.9643 |
| Total | 0.1920 | 1.7524 | 2.1135 | 3.5200e-003 | | 0.0800 | 0.0800 | | 0.0752 | 0.0752 | 0.0000 | 302.4646 | 302.4646 | 0.0714 | 0.0000 | 303.9643 |

3.4 Building Construction - 2024

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 | 0.1974 | 1.1150 | 3.2511 | 6.0400e-003 | 0.1770 | 0.0310 | 0.2080 | 0.0504 | 0.0285 | 0.0789 | 0.0000 | 511.8229 | 511.8229 | 3.2800e-003 | 0.0000 | 511.8918 |
| Worker | 0.2719 | 0.3562 | 3.9897 | 0.0153 | 1.2804 | 8.8200e-003 | 1.2892 | 0.3401 | 8.1800e-003 | 0.3482 | 0.0000 | 916.9042 | 916.9042 | 0.0391 | 0.0000 | 917.7246 |
| Total | 0.4694 | 1.4712 | 7.2408 | 0.0214 | 1.4574 | 0.0398 | 1.4972 | 0.3904 | 0.0367 | 0.4271 | 0.0000 | 1,428.7270 | 1,428.7270 | 0.0424 | 0.0000 | 1,429.6164 |

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 | 0.1920 | 1.7524 | 2.1135 | 3.5200e-003 | | 0.0800 | 0.0800 | | 0.0752 | 0.0752 | 0.0000 | 302.4642 | 302.4642 | 0.0714 | 0.0000 | 303.9639 |
| Total | 0.1920 | 1.7524 | 2.1135 | 3.5200e-003 | | 0.0800 | 0.0800 | | 0.0752 | 0.0752 | 0.0000 | 302.4642 | 302.4642 | 0.0714 | 0.0000 | 303.9639 |

3.4 Building Construction - 2024

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 | 0.1974 | 1.1150 | 3.2511 | 6.0400e-003 | 0.1770 | 0.0310 | 0.2080 | 0.0504 | 0.0285 | 0.0789 | 0.0000 | 511.8229 | 511.8229 | 3.2800e-003 | 0.0000 | 511.8918 |
| Worker | 0.2719 | 0.3562 | 3.9897 | 0.0153 | 1.2804 | 8.8200e-003 | 1.2892 | 0.3401 | 8.1800e-003 | 0.3482 | 0.0000 | 916.9042 | 916.9042 | 0.0391 | 0.0000 | 917.7246 |
| Total | 0.4694 | 1.4712 | 7.2408 | 0.0214 | 1.4574 | 0.0398 | 1.4972 | 0.3904 | 0.0367 | 0.4271 | 0.0000 | 1,428.7270 | 1,428.7270 | 0.0424 | 0.0000 | 1,429.6164 |

3.4 Building Construction - 2025

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |

3.4 Building Construction - 2025

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 | 0.1914 | 1.1008 | 3.1916 | 6.0200e-003 | 0.1763 | 0.0310 | 0.2073 | 0.0502 | 0.0285 | 0.0787 | 0.0000 | 509.8326 | 509.8326 | 3.2800e-003 | 0.0000 | 509.9014 |
| Worker | 0.2599 | 0.3407 | 3.8282 | 0.0153 | 1.2755 | 8.8900e-003 | 1.2844 | 0.3388 | 8.2500e-003 | 0.3470 | 0.0000 | 903.5932 | 903.5932 | 0.0380 | 0.0000 | 904.3908 |
| Total | 0.4512 | 1.4416 | 7.0198 | 0.0213 | 1.4518 | 0.0399 | 1.4917 | 0.3890 | 0.0367 | 0.4257 | 0.0000 | 1,413.4258 | 1,413.4258 | 0.0413 | 0.0000 | 1,414.2922 |

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |

3.4 Building Construction - 2025

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 | 0.1914 | 1.1008 | 3.1916 | 6.0200e-003 | 0.1763 | 0.0310 | 0.2073 | 0.0502 | 0.0285 | 0.0787 | 0.0000 | 509.8326 | 509.8326 | 3.2800e-003 | 0.0000 | 509.9014 |
| Worker | 0.2599 | 0.3407 | 3.8282 | 0.0153 | 1.2755 | 8.8900e-003 | 1.2844 | 0.3388 | 8.2500e-003 | 0.3470 | 0.0000 | 903.5932 | 903.5932 | 0.0380 | 0.0000 | 904.3908 |
| Total | 0.4512 | 1.4416 | 7.0198 | 0.0213 | 1.4518 | 0.0399 | 1.4917 | 0.3890 | 0.0367 | 0.4257 | 0.0000 | 1,413.4258 | 1,413.4258 | 0.0413 | 0.0000 | 1,414.2922 |

3.4 Building Construction - 2026

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |

3.4 Building Construction - 2026

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 | 0.1850 | 1.0839 | 3.1060 | 6.0200e-003 | 0.1763 | 0.0306 | 0.2069 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.7822 | 509.7822 | 3.2500e-003 | 0.0000 | 509.8505 |
| Worker | 0.2507 | 0.3294 | 3.7108 | 0.0153 | 1.2755 | 9.0000e-003 | 1.2845 | 0.3388 | 8.3500e-003 | 0.3471 | 0.0000 | 895.3704 | 895.3704 | 0.0372 | 0.0000 | 896.1524 |
| Total | 0.4356 | 1.4133 | 6.8168 | 0.0213 | 1.4518 | 0.0396 | 1.4914 | 0.3890 | 0.0365 | 0.4255 | 0.0000 | 1,405.1526 | 1,405.1526 | 0.0405 | 0.0000 | 1,406.0029 |

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |

3.4 Building Construction - 2026

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 | 0.1850 | 1.0839 | 3.1060 | 6.0200e-003 | 0.1763 | 0.0306 | 0.2069 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.7822 | 509.7822 | 3.2500e-003 | 0.0000 | 509.8505 |
| Worker | 0.2507 | 0.3294 | 3.7108 | 0.0153 | 1.2755 | 9.0000e-003 | 1.2845 | 0.3388 | 8.3500e-003 | 0.3471 | 0.0000 | 895.3704 | 895.3704 | 0.0372 | 0.0000 | 896.1524 |
| Total | 0.4356 | 1.4133 | 6.8168 | 0.0213 | 1.4518 | 0.0396 | 1.4914 | 0.3890 | 0.0365 | 0.4255 | 0.0000 | 1,405.1526 | 1,405.1526 | 0.0405 | 0.0000 | 1,406.0029 |

3.4 Building Construction - 2027

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |

3.4 Building Construction - 2027

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 | 0.1837 | 1.0764 | 3.0812 | 6.0200e-003 | 0.1763 | 0.0307 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8019 | 509.8019 | 3.2600e-003 | 0.0000 | 509.8702 |
| Worker | 0.2426 | 0.3196 | 3.6105 | 0.0153 | 1.2755 | 9.0900e-003 | 1.2846 | 0.3388 | 8.4300e-003 | 0.3472 | 0.0000 | 888.3744 | 888.3744 | 0.0366 | 0.0000 | 889.1427 |
| Total | 0.4263 | 1.3959 | 6.6918 | 0.0213 | 1.4518 | 0.0398 | 1.4916 | 0.3890 | 0.0367 | 0.4256 | 0.0000 | 1,398.1763 | 1,398.1763 | 0.0399 | 0.0000 | 1,399.0130 |

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |

3.4 Building Construction - 2027

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 | 0.1837 | 1.0764 | 3.0812 | 6.0200e-003 | 0.1763 | 0.0307 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8019 | 509.8019 | 3.2600e-003 | 0.0000 | 509.8702 |
| Worker | 0.2426 | 0.3196 | 3.6105 | 0.0153 | 1.2755 | 9.0900e-003 | 1.2846 | 0.3388 | 8.4300e-003 | 0.3472 | 0.0000 | 888.3744 | 888.3744 | 0.0366 | 0.0000 | 889.1427 |
| Total | 0.4263 | 1.3959 | 6.6918 | 0.0213 | 1.4518 | 0.0398 | 1.4916 | 0.3890 | 0.0367 | 0.4256 | 0.0000 | 1,398.1763 | 1,398.1763 | 0.0399 | 0.0000 | 1,399.0130 |

3.4 Building Construction - 2028

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 | 0.1770 | 1.6133 | 2.0867 | 3.4900e-003 | | 0.0683 | 0.0683 | | 0.0642 | 0.0642 | 0.0000 | 300.2471 | 300.2471 | 0.0705 | 0.0000 | 301.7269 |
| Total | 0.1770 | 1.6133 | 2.0867 | 3.4900e-003 | | 0.0683 | 0.0683 | | 0.0642 | 0.0642 | 0.0000 | 300.2471 | 300.2471 | 0.0705 | 0.0000 | 301.7269 |

3.4 Building Construction - 2028

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 | 0.1802 | 1.0654 | 3.0481 | 5.9900e-003 | 0.1757 | 0.0305 | 0.2062 | 0.0500 | 0.0281 | 0.0781 | 0.0000 | 507.8538 | 507.8538 | 3.2400e-003 | 0.0000 | 507.9218 |
| Worker | 0.2344 | 0.3097 | 3.5106 | 0.0152 | 1.2706 | 9.1300e-003 | 1.2798 | 0.3375 | 8.4700e-003 | 0.3459 | 0.0000 | 879.0926 | 879.0926 | 0.0359 | 0.0000 | 879.8460 |
| Total | 0.4147 | 1.3751 | 6.5586 | 0.0212 | 1.4463 | 0.0396 | 1.4859 | 0.3875 | 0.0365 | 0.4240 | 0.0000 | 1,386.9464 | 1,386.9464 | 0.0391 | 0.0000 | 1,387.7678 |

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 | 0.1770 | 1.6133 | 2.0867 | 3.4900e-003 | | 0.0683 | 0.0683 | | 0.0642 | 0.0642 | 0.0000 | 300.2467 | 300.2467 | 0.0705 | 0.0000 | 301.7266 |
| Total | 0.1770 | 1.6133 | 2.0867 | 3.4900e-003 | | 0.0683 | 0.0683 | | 0.0642 | 0.0642 | 0.0000 | 300.2467 | 300.2467 | 0.0705 | 0.0000 | 301.7266 |

3.4 Building Construction - 2028

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 | 0.1802 | 1.0654 | 3.0481 | 5.9900e-003 | 0.1757 | 0.0305 | 0.2062 | 0.0500 | 0.0281 | 0.0781 | 0.0000 | 507.8538 | 507.8538 | 3.2400e-003 | 0.0000 | 507.9218 |
| Worker | 0.2344 | 0.3097 | 3.5106 | 0.0152 | 1.2706 | 9.1300e-003 | 1.2798 | 0.3375 | 8.4700e-003 | 0.3459 | 0.0000 | 879.0926 | 879.0926 | 0.0359 | 0.0000 | 879.8460 |
| Total | 0.4147 | 1.3751 | 6.5586 | 0.0212 | 1.4463 | 0.0396 | 1.4859 | 0.3875 | 0.0365 | 0.4240 | 0.0000 | 1,386.9464 | 1,386.9464 | 0.0391 | 0.0000 | 1,387.7678 |

3.4 Building Construction - 2029

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |

3.4 Building Construction - 2029

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 | 0.1798 | 1.0643 | 3.0386 | 6.0200e-003 | 0.1764 | 0.0306 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8245 | 509.8245 | 3.2500e-003 | 0.0000 | 509.8928 |
| Worker | 0.2283 | 0.3027 | 3.4419 | 0.0153 | 1.2755 | 9.2300e-003 | 1.2847 | 0.3388 | 8.5600e-003 | 0.3473 | 0.0000 | 877.5094 | 877.5094 | 0.0355 | 0.0000 | 878.2540 |
| Total | 0.4081 | 1.3670 | 6.4805 | 0.0213 | 1.4519 | 0.0399 | 1.4917 | 0.3890 | 0.0367 | 0.4257 | 0.0000 | 1,387.3338 | 1,387.3338 | 0.0387 | 0.0000 | 1,388.1468 |

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |

3.4 Building Construction - 2029

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 | 0.1798 | 1.0643 | 3.0386 | 6.0200e-003 | 0.1764 | 0.0306 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8245 | 509.8245 | 3.2500e-003 | 0.0000 | 509.8928 |
| Worker | 0.2283 | 0.3027 | 3.4419 | 0.0153 | 1.2755 | 9.2300e-003 | 1.2847 | 0.3388 | 8.5600e-003 | 0.3473 | 0.0000 | 877.5094 | 877.5094 | 0.0355 | 0.0000 | 878.2540 |
| Total | 0.4081 | 1.3670 | 6.4805 | 0.0213 | 1.4519 | 0.0399 | 1.4917 | 0.3890 | 0.0367 | 0.4257 | 0.0000 | 1,387.3338 | 1,387.3338 | 0.0387 | 0.0000 | 1,388.1468 |

3.4 Building Construction - 2030

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 | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5281 | 341.5281 | 0.0137 | 0.0000 | 341.8160 |
| Total | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5281 | 341.5281 | 0.0137 | 0.0000 | 341.8160 |

3.4 Building Construction - 2030

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 | 0.1787 | 1.0601 | 3.0276 | 6.0200e-003 | 0.1764 | 0.0306 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8357 | 509.8357 | 3.2500e-003 | 0.0000 | 509.9041 |
| Worker | 0.2217 | 0.2952 | 3.3704 | 0.0153 | 1.2755 | 9.2800e-003 | 1.2848 | 0.3388 | 8.6100e-003 | 0.3474 | 0.0000 | 873.3643 | 873.3643 | 0.0350 | 0.0000 | 874.0983 |
| Total | 0.4004 | 1.3552 | 6.3980 | 0.0213 | 1.4519 | 0.0399 | 1.4918 | 0.3890 | 0.0368 | 0.4258 | 0.0000 | 1,383.2000 | 1,383.2000 | 0.0382 | 0.0000 | 1,384.0023 |

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 | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5277 | 341.5277 | 0.0137 | 0.0000 | 341.8156 |
| Total | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5277 | 341.5277 | 0.0137 | 0.0000 | 341.8156 |

3.4 Building Construction - 2030

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 | 0.1787 | 1.0601 | 3.0276 | 6.0200e-003 | 0.1764 | 0.0306 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8357 | 509.8357 | 3.2500e-003 | 0.0000 | 509.9041 |
| Worker | 0.2217 | 0.2952 | 3.3704 | 0.0153 | 1.2755 | 9.2800e-003 | 1.2848 | 0.3388 | 8.6100e-003 | 0.3474 | 0.0000 | 873.3643 | 873.3643 | 0.0350 | 0.0000 | 874.0983 |
| Total | 0.4004 | 1.3552 | 6.3980 | 0.0213 | 1.4519 | 0.0399 | 1.4918 | 0.3890 | 0.0368 | 0.4258 | 0.0000 | 1,383.2000 | 1,383.2000 | 0.0382 | 0.0000 | 1,384.0023 |

3.4 Building Construction - 2031

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 | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5281 | 341.5281 | 0.0137 | 0.0000 | 341.8160 |
| Total | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5281 | 341.5281 | 0.0137 | 0.0000 | 341.8160 |

3.4 Building Construction - 2031

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 | 0.1788 | 1.0636 | 3.0092 | 6.0600e-003 | 0.1765 | 0.0295 | 0.2060 | 0.0503 | 0.0271 | 0.0774 | 0.0000 | 513.5618 | 513.5618 | 3.3600e-003 | 0.0000 | 513.6322 |
| Worker | 0.2185 | 0.2918 | 3.3943 | 0.0156 | 1.2755 | 9.7600e-003 | 1.2853 | 0.3388 | 9.0500e-003 | 0.3478 | 0.0000 | 890.0421 | 890.0421 | 0.0364 | 0.0000 | 890.8074 |
| Total | 0.3973 | 1.3553 | 6.4036 | 0.0217 | 1.4520 | 0.0392 | 1.4912 | 0.3890 | 0.0361 | 0.4252 | 0.0000 | 1,403.6039 | 1,403.6039 | 0.0398 | 0.0000 | 1,404.4396 |

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 | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5277 | 341.5277 | 0.0137 | 0.0000 | 341.8156 |
| Total | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5277 | 341.5277 | 0.0137 | 0.0000 | 341.8156 |

3.4 Building Construction - 2031

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 | 0.1788 | 1.0636 | 3.0092 | 6.0600e-003 | 0.1765 | 0.0295 | 0.2060 | 0.0503 | 0.0271 | 0.0774 | 0.0000 | 513.5618 | 513.5618 | 3.3600e-003 | 0.0000 | 513.6322 |
| Worker | 0.2185 | 0.2918 | 3.3943 | 0.0156 | 1.2755 | 9.7600e-003 | 1.2853 | 0.3388 | 9.0500e-003 | 0.3478 | 0.0000 | 890.0421 | 890.0421 | 0.0364 | 0.0000 | 890.8074 |
| Total | 0.3973 | 1.3553 | 6.4036 | 0.0217 | 1.4520 | 0.0392 | 1.4912 | 0.3890 | 0.0361 | 0.4252 | 0.0000 | 1,403.6039 | 1,403.6039 | 0.0398 | 0.0000 | 1,404.4396 |

3.4 Building Construction - 2032

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 | 0.1708 | 1.0372 | 2.1132 | 4.0400e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 342.8367 | 342.8367 | 0.0138 | 0.0000 | 343.1257 |
| Total | 0.1708 | 1.0372 | 2.1132 | 4.0400e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 342.8367 | 342.8367 | 0.0138 | 0.0000 | 343.1257 |

3.4 Building Construction - 2032

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 | 0.1788 | 1.0668 | 3.0138 | 6.0900e-003 | 0.1773 | 0.0296 | 0.2070 | 0.0505 | 0.0273 | 0.0778 | 0.0000 | 516.0921 | 516.0921 | 3.3700e-003 | 0.0000 | 516.1629 |
| Worker | 0.2141 | 0.2872 | 3.3545 | 0.0157 | 1.2804 | 9.8200e-003 | 1.2902 | 0.3401 | 9.1100e-003 | 0.3492 | 0.0000 | 890.5626 | 890.5626 | 0.0362 | 0.0000 | 891.3229 |
| Total | 0.3929 | 1.3539 | 6.3683 | 0.0218 | 1.4577 | 0.0395 | 1.4972 | 0.3906 | 0.0364 | 0.4270 | 0.0000 | 1,406.6547 | 1,406.6547 | 0.0396 | 0.0000 | 1,407.4858 |

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 | 0.1708 | 1.0372 | 2.1132 | 4.0400e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 342.8363 | 342.8363 | 0.0138 | 0.0000 | 343.1252 |
| Total | 0.1708 | 1.0372 | 2.1132 | 4.0400e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 342.8363 | 342.8363 | 0.0138 | 0.0000 | 343.1252 |

3.4 Building Construction - 2032

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 | 0.1788 | 1.0668 | 3.0138 | 6.0900e-003 | 0.1773 | 0.0296 | 0.2070 | 0.0505 | 0.0273 | 0.0778 | 0.0000 | 516.0921 | 516.0921 | 3.3700e-003 | 0.0000 | 516.1629 |
| Worker | 0.2141 | 0.2872 | 3.3545 | 0.0157 | 1.2804 | 9.8200e-003 | 1.2902 | 0.3401 | 9.1100e-003 | 0.3492 | 0.0000 | 890.5626 | 890.5626 | 0.0362 | 0.0000 | 891.3229 |
| Total | 0.3929 | 1.3539 | 6.3683 | 0.0218 | 1.4577 | 0.0395 | 1.4972 | 0.3906 | 0.0364 | 0.4270 | 0.0000 | 1,406.6547 | 1,406.6547 | 0.0396 | 0.0000 | 1,407.4858 |

3.4 Building Construction - 2033

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 | 0.0437 | 0.2653 | 0.5404 | 1.0300e-003 | | 4.9400e-003 | 4.9400e-003 | | 4.9400e-003 | 4.9400e-003 | 0.0000 | 87.6720 | 87.6720 | 3.5200e-003 | 0.0000 | 87.7459 |
| Total | 0.0437 | 0.2653 | 0.5404 | 1.0300e-003 | | 4.9400e-003 | 4.9400e-003 | | 4.9400e-003 | 4.9400e-003 | 0.0000 | 87.6720 | 87.6720 | 3.5200e-003 | 0.0000 | 87.7459 |

3.4 Building Construction - 2033

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 | 0.0454 | 0.2724 | 0.7692 | 1.5600e-003 | 0.0454 | 7.6000e-003 | 0.0530 | 0.0129 | 6.9900e-003 | 0.0199 | 0.0000 | 132.1059 | 132.1059 | 8.6000e-004 | 0.0000 | 132.1241 |
| Worker | 0.0536 | 0.0722 | 0.8463 | 4.0100e-003 | 0.3274 | 2.5200e-003 | 0.3299 | 0.0870 | 2.3300e-003 | 0.0893 | 0.0000 | 227.1289 | 227.1289 | 9.1700e-003 | 0.0000 | 227.3216 |
| Total | 0.0990 | 0.3446 | 1.6155 | 5.5700e-003 | 0.3728 | 0.0101 | 0.3829 | 0.0999 | 9.3200e-003 | 0.1092 | 0.0000 | 359.2348 | 359.2348 | 0.0100 | 0.0000 | 359.4456 |

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 | 0.0437 | 0.2653 | 0.5404 | 1.0300e-003 | | 4.9400e-003 | 4.9400e-003 | | 4.9400e-003 | 4.9400e-003 | 0.0000 | 87.6719 | 87.6719 | 3.5200e-003 | 0.0000 | 87.7458 |
| Total | 0.0437 | 0.2653 | 0.5404 | 1.0300e-003 | | 4.9400e-003 | 4.9400e-003 | | 4.9400e-003 | 4.9400e-003 | 0.0000 | 87.6719 | 87.6719 | 3.5200e-003 | 0.0000 | 87.7458 |

3.4 Building Construction - 2033

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 | 0.0454 | 0.2724 | 0.7692 | 1.5600e-003 | 0.0454 | 7.6000e-003 | 0.0530 | 0.0129 | 6.9900e-003 | 0.0199 | 0.0000 | 132.1059 | 132.1059 | 8.6000e-004 | 0.0000 | 132.1241 |
| Worker | 0.0536 | 0.0722 | 0.8463 | 4.0100e-003 | 0.3274 | 2.5200e-003 | 0.3299 | 0.0870 | 2.3300e-003 | 0.0893 | 0.0000 | 227.1289 | 227.1289 | 9.1700e-003 | 0.0000 | 227.3216 |
| Total | 0.0990 | 0.3446 | 1.6155 | 5.5700e-003 | 0.3728 | 0.0101 | 0.3829 | 0.0999 | 9.3200e-003 | 0.1092 | 0.0000 | 359.2348 | 359.2348 | 0.0100 | 0.0000 | 359.4456 |

3.5 Paving - 2033

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 | 0.1308 | 0.6736 | 1.4976 | 2.6500e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | 0.0000 | 227.6115 | 227.6115 | 0.0107 | 0.0000 | 227.8355 |
| Paving | 2.7100e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.1335 | 0.6736 | 1.4976 | 2.6500e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | 0.0000 | 227.6115 | 227.6115 | 0.0107 | 0.0000 | 227.8355 |

3.5 Paving - 2033

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 | 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 | 0.0000 |
| Worker | 1.9500e-003 | 2.6300e-003 | 0.0308 | 1.5000e-004 | 0.0119 | 9.0000e-005 | 0.0120 | 3.1600e-003 | 8.0000e-005 | 3.2500e-003 | 0.0000 | 8.2609 | 8.2609 | 3.3000e-004 | 0.0000 | 8.2680 | 8.2680 |
| Total | 1.9500e-003 | 2.6300e-003 | 0.0308 | 1.5000e-004 | 0.0119 | 9.0000e-005 | 0.0120 | 3.1600e-003 | 8.0000e-005 | 3.2500e-003 | 0.0000 | 8.2609 | 8.2609 | 3.3000e-004 | 0.0000 | 8.2680 | 8.2680 |

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 | 0.1308 | 0.6736 | 1.4976 | 2.6500e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | 0.0000 | 227.6112 | 227.6112 | 0.0107 | 0.0000 | 227.8353 |
| Paving | 2.7100e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.1335 | 0.6736 | 1.4976 | 2.6500e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | 0.0000 | 227.6112 | 227.6112 | 0.0107 | 0.0000 | 227.8353 |

3.5 Paving - 2033

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 | 1.9500e-003 | 2.6300e-003 | 0.0308 | 1.5000e-004 | 0.0119 | 9.0000e-005 | 0.0120 | 3.1600e-003 | 8.0000e-005 | 3.2500e-003 | 0.0000 | 8.2609 | 8.2609 | 3.3000e-004 | 0.0000 | 8.2680 |
| Total | 1.9500e-003 | 2.6300e-003 | 0.0308 | 1.5000e-004 | 0.0119 | 9.0000e-005 | 0.0120 | 3.1600e-003 | 8.0000e-005 | 3.2500e-003 | 0.0000 | 8.2609 | 8.2609 | 3.3000e-004 | 0.0000 | 8.2680 |

3.5 Paving - 2034

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 | 0.0305 | 0.1571 | 0.3492 | 6.2000e-004 | | 7.2800e-003 | 7.2800e-003 | | 7.2800e-003 | 7.2800e-003 | 0.0000 | 53.0700 | 53.0700 | 2.4900e-003 | 0.0000 | 53.1223 |
| Paving | 6.3000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0311 | 0.1571 | 0.3492 | 6.2000e-004 | | 7.2800e-003 | 7.2800e-003 | | 7.2800e-003 | 7.2800e-003 | 0.0000 | 53.0700 | 53.0700 | 2.4900e-003 | 0.0000 | 53.1223 |

3.5 Paving - 2034

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 | 4.5000e-004 | 6.0000e-004 | 7.0800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 1.9218 | 1.9218 | 8.0000e-005 | 0.0000 | 1.9234 |
| Total | 4.5000e-004 | 6.0000e-004 | 7.0800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 1.9218 | 1.9218 | 8.0000e-005 | 0.0000 | 1.9234 |

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 | 0.0305 | 0.1571 | 0.3492 | 6.2000e-004 | | 7.2800e-003 | 7.2800e-003 | | 7.2800e-003 | 7.2800e-003 | 0.0000 | 53.0700 | 53.0700 | 2.4900e-003 | 0.0000 | 53.1222 |
| Paving | 6.3000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0311 | 0.1571 | 0.3492 | 6.2000e-004 | | 7.2800e-003 | 7.2800e-003 | | 7.2800e-003 | 7.2800e-003 | 0.0000 | 53.0700 | 53.0700 | 2.4900e-003 | 0.0000 | 53.1222 |

3.5 Paving - 2034

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 | 4.5000e-004 | 6.0000e-004 | 7.0800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 1.9218 | 1.9218 | 8.0000e-005 | 0.0000 | 1.9234 |
| Total | 4.5000e-004 | 6.0000e-004 | 7.0800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 1.9218 | 1.9218 | 8.0000e-005 | 0.0000 | 1.9234 |

3.6 Architectural Coating - 2034

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 | 4.2638 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0141 | 0.0921 | 0.1933 | 3.2000e-004 | | 2.1800e-003 | 2.1800e-003 | | 2.1800e-003 | 2.1800e-003 | 0.0000 | 27.4475 | 27.4475 | 1.1100e-003 | 0.0000 | 27.4708 |
| Total | 4.2779 | 0.0921 | 0.1933 | 3.2000e-004 | | 2.1800e-003 | 2.1800e-003 | | 2.1800e-003 | 2.1800e-003 | 0.0000 | 27.4475 | 27.4475 | 1.1100e-003 | 0.0000 | 27.4708 |

3.6 Architectural Coating - 2034

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 | 0.0337 | 0.0457 | 0.5371 | 2.5800e-003 | 0.2105 | 1.6200e-003 | 0.2121 | 0.0559 | 1.5000e-003 | 0.0574 | 0.0000 | 145.6881 | 145.6881 | 5.8500e-003 | 0.0000 | 145.8109 |
| Total | 0.0337 | 0.0457 | 0.5371 | 2.5800e-003 | 0.2105 | 1.6200e-003 | 0.2121 | 0.0559 | 1.5000e-003 | 0.0574 | 0.0000 | 145.6881 | 145.6881 | 5.8500e-003 | 0.0000 | 145.8109 |

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 | 4.2638 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0141 | 0.0921 | 0.1933 | 3.2000e-004 | | 2.1800e-003 | 2.1800e-003 | | 2.1800e-003 | 2.1800e-003 | 0.0000 | 27.4475 | 27.4475 | 1.1100e-003 | 0.0000 | 27.4708 |
| Total | 4.2779 | 0.0921 | 0.1933 | 3.2000e-004 | | 2.1800e-003 | 2.1800e-003 | | 2.1800e-003 | 2.1800e-003 | 0.0000 | 27.4475 | 27.4475 | 1.1100e-003 | 0.0000 | 27.4708 |

3.6 Architectural Coating - 2034

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 | 0.0337 | 0.0457 | 0.5371 | 2.5800e-003 | 0.2105 | 1.6200e-003 | 0.2121 | 0.0559 | 1.5000e-003 | 0.0574 | 0.0000 | 145.6881 | 145.6881 | 5.8500e-003 | 0.0000 | 145.8109 |
| Total | 0.0337 | 0.0457 | 0.5371 | 2.5800e-003 | 0.2105 | 1.6200e-003 | 0.2121 | 0.0559 | 1.5000e-003 | 0.0574 | 0.0000 | 145.6881 | 145.6881 | 5.8500e-003 | 0.0000 | 145.8109 |

3.6 Architectural Coating - 2035

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.4561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.3600e-003 | 8.7100e-003 | 0.0206 | 3.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 2.9362 | 2.9362 | 1.1000e-004 | 0.0000 | 2.9385 |
| Total | 0.4575 | 8.7100e-003 | 0.0206 | 3.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 2.9362 | 2.9362 | 1.1000e-004 | 0.0000 | 2.9385 |

3.6 Architectural Coating - 2035

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 | 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 | 0.0000 |
| Worker | 3.5400e-003 | 4.8400e-003 | 0.0568 | 2.8000e-004 | 0.0225 | 1.7000e-004 | 0.0227 | 5.9800e-003 | 1.6000e-004 | 6.1400e-003 | 0.0000 | 15.5566 | 15.5566 | 6.2000e-004 | 0.0000 | 15.5696 | 15.5696 |
| Total | 3.5400e-003 | 4.8400e-003 | 0.0568 | 2.8000e-004 | 0.0225 | 1.7000e-004 | 0.0227 | 5.9800e-003 | 1.6000e-004 | 6.1400e-003 | 0.0000 | 15.5566 | 15.5566 | 6.2000e-004 | 0.0000 | 15.5696 | 15.5696 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.4561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.3600e-003 | 8.7100e-003 | 0.0206 | 3.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 2.9362 | 2.9362 | 1.1000e-004 | 0.0000 | 2.9385 |
| Total | 0.4575 | 8.7100e-003 | 0.0206 | 3.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 2.9362 | 2.9362 | 1.1000e-004 | 0.0000 | 2.9385 |

3.6 Architectural Coating - 2035

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 | 3.5400e-003 | 4.8400e-003 | 0.0568 | 2.8000e-004 | 0.0225 | 1.7000e-004 | 0.0227 | 5.9800e-003 | 1.6000e-004 | 6.1400e-003 | 0.0000 | 15.5566 | 15.5566 | 6.2000e-004 | 0.0000 | 15.5696 |
| Total | 3.5400e-003 | 4.8400e-003 | 0.0568 | 2.8000e-004 | 0.0225 | 1.7000e-004 | 0.0227 | 5.9800e-003 | 1.6000e-004 | 6.1400e-003 | 0.0000 | 15.5566 | 15.5566 | 6.2000e-004 | 0.0000 | 15.5696 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 10.7239 | 17.5003 | 104.1506 | 0.2139 | 12.7221 | 0.3991 | 13.1212 | 3.3996 | 0.3683 | 3.7678 | 0.0000 | 13,884.1572 | 13,884.1572 | 0.4017 | 0.0000 | 13,892.5936 |
| Unmitigated | 11.5163 | 23.2511 | 126.3462 | 0.3480 | 21.5559 | 0.6198 | 22.1757 | 5.7601 | 0.5717 | 6.3317 | 0.0000 | 22,592.7479 | 22,592.7479 | 0.6280 | 0.0000 | 22,605.9364 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|--------------------------|-------------------------|------------------|------------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 7,097.10 | 7,097.10 | 7097.10 | 15,875,652 | 9,369,659 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Regional Shopping Center | 30,848.00 | 30,848.00 | 30848.00 | 40,855,689 | 24,112,638 |
| Total | 37,945.10 | 37,945.10 | 37,945.10 | 56,731,341 | 33,482,296 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 11.00 | 3.50 | 4.50 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 12.50 | 4.20 | 5.40 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Regional Shopping Center | 12.50 | 4.20 | 5.40 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.465965 | 0.065297 | 0.183466 | 0.172527 | 0.024353 | 0.004615 | 0.008261 | 0.065438 | 0.000861 | 0.001949 | 0.002956 | 0.000367 | 0.003945 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8,818.4031 | 8,818.4031 | 0.2012 | 0.0416 | 8,835.5347 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 10,113.4370 | 10,113.4370 | 0.2308 | 0.0478 | 10,133.0845 |
| NaturalGas Mitigated | 0.0802 | 0.6899 | 0.3231 | 4.3800e-003 | | 0.0554 | 0.0554 | | 0.0554 | 0.0554 | 0.0000 | 793.9929 | 793.9929 | 0.0152 | 0.0146 | 798.8250 |
| NaturalGas Unmitigated | 0.1010 | 0.8687 | 0.4074 | 5.5100e-003 | | 0.0698 | 0.0698 | | 0.0698 | 0.0698 | 0.0000 | 999.7339 | 999.7339 | 0.0192 | 0.0183 | 1,005.8181 |

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 | 0.0000 |
| Regional Shopping Center | 1.856e+006 | 0.0100 | 0.0910 | 0.0764 | 5.5000e-004 | | 6.9100e-003 | 6.9100e-003 | | 6.9100e-003 | 6.9100e-003 | 0.0000 | 99.0432 | 99.0432 | 1.9000e-003 | 1.8200e-003 | 99.6460 | |
| Apartments Low Rise | 1.68783e+007 | 0.0910 | 0.7777 | 0.3310 | 4.9600e-003 | | 0.0629 | 0.0629 | | 0.0629 | 0.0629 | 0.0000 | 900.6907 | 900.6907 | 0.0173 | 0.0165 | 906.1721 | |
| Total | | 0.1010 | 0.8687 | 0.4074 | 5.5100e-003 | | 0.0698 | 0.0698 | | 0.0698 | 0.0698 | 0.0000 | 999.7339 | 999.7339 | 0.0192 | 0.0183 | 1,005.8181 | |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Regional Shopping Center | 1.452e+006 | 7.8300e-003 | 0.0712 | 0.0598 | 4.3000e-004 | | 5.4100e-003 | 5.4100e-003 | | 5.4100e-003 | 5.4100e-003 | 0.0000 | 77.4843 | 77.4843 | 1.4900e-003 | 1.4200e-003 | 77.9558 |
| Apartments Low Rise | 1.34269e+007 | 0.0724 | 0.6187 | 0.2633 | 3.9500e-003 | | 0.0500 | 0.0500 | | 0.0500 | 0.0500 | 0.0000 | 716.5086 | 716.5086 | 0.0137 | 0.0131 | 720.8692 |
| 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 |
| Total | | 0.0802 | 0.6899 | 0.3231 | 4.3800e-003 | | 0.0554 | 0.0554 | | 0.0554 | 0.0554 | 0.0000 | 793.9929 | 793.9929 | 0.0152 | 0.0146 | 798.8250 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-----------------|--------------------|---------------|---------------|--------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Low Rise | 5.01572e+006 | 2,891.4140 | 0.0660 | 0.0137 | 2,897.0312 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 1.2528e+007 | 7,222.0230 | 0.1648 | 0.0341 | 7,236.0533 |
| Total | | 10,113.4370 | 0.2308 | 0.0478 | 10,133.0846 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Low Rise | 4.57323e+006 | 2,636.3330 | 0.0602 | 0.0125 | 2,641.4546 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 1.0724e+007 | 6,182.0701 | 0.1411 | 0.0292 | 6,194.0801 |
| Total | | 8,818.4031 | 0.2012 | 0.0416 | 8,835.5347 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 9.2005 | 0.1051 | 9.1129 | 4.8000e-004 | | 0.1115 | 0.1115 | | 0.1109 | 0.1109 | 0.0000 | 886.8611 | 886.8611 | 0.0310 | 0.0160 | 892.4665 |
| Unmitigated | 10.9000 | 0.1051 | 9.1129 | 4.8000e-004 | | 0.1115 | 0.1115 | | 0.1109 | 0.1109 | 0.0000 | 886.8611 | 886.8611 | 0.0310 | 0.0160 | 892.4665 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 2.1772 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 8.3620 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0881 | 0.0000 | 4.8100e-003 | 0.0000 | | 0.0609 | 0.0609 | | 0.0602 | 0.0602 | 0.0000 | 871.9283 | 871.9283 | 0.0167 | 0.0160 | 877.2348 |
| Landscaping | 0.2728 | 0.1051 | 9.1081 | 4.8000e-004 | | 0.0507 | 0.0507 | | 0.0507 | 0.0507 | 0.0000 | 14.9328 | 14.9328 | 0.0142 | 0.0000 | 15.2318 |
| Total | 10.9000 | 0.1051 | 9.1129 | 4.8000e-004 | | 0.1115 | 0.1115 | | 0.1109 | 0.1109 | 0.0000 | 886.8611 | 886.8611 | 0.0310 | 0.0160 | 892.4665 |

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 | 0.4777 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 8.3620 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0881 | 0.0000 | 4.8100e-003 | 0.0000 | | 0.0609 | 0.0609 | | 0.0602 | 0.0602 | 0.0000 | 871.9283 | 871.9283 | 0.0167 | 0.0160 | 877.2348 |
| Landscaping | 0.2728 | 0.1051 | 9.1081 | 4.8000e-004 | | 0.0507 | 0.0507 | | 0.0507 | 0.0507 | 0.0000 | 14.9328 | 14.9328 | 0.0142 | 0.0000 | 15.2318 |
| Total | 9.2005 | 0.1051 | 9.1129 | 4.8000e-004 | | 0.1115 | 0.1115 | | 0.1109 | 0.1109 | 0.0000 | 886.8611 | 886.8611 | 0.0310 | 0.0160 | 892.4665 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|--------|--------|------------|
| Category | MT/yr | | | |
| Mitigated | 1,399.5927 | 3.6649 | 0.0922 | 1,505.1518 |
| Unmitigated | 1,646.7609 | 4.5788 | 0.1148 | 1,778.5102 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------------|-------------------|---------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 80.1395 / 50.5227 | 950.5462 | 2.6325 | 0.0660 | 1,026.2961 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 59.258 / 36.3194 | 696.2147 | 1.9464 | 0.0488 | 752.2140 |
| Total | | 1,646.7609 | 4.5788 | 0.1148 | 1,778.5102 |

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------------|-------------------|---------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 64.1116 / 50.5227 | 808.4495 | 2.1071 | 0.0531 | 869.1427 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 47.4064 / 36.3194 | 591.1432 | 1.5579 | 0.0392 | 636.0091 |
| Total | | 1,399.5927 | 3.6649 | 0.0922 | 1,505.1518 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 142.6824 | 8.4323 | 0.0000 | 319.7603 |
| Unmitigated | 285.3647 | 16.8646 | 0.0000 | 639.5207 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Low Rise | 565.8 | 114.8523 | 6.7876 | 0.0000 | 257.3914 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 840 | 170.5124 | 10.0770 | 0.0000 | 382.1293 |
| Total | | 285.3647 | 16.8646 | 0.0000 | 639.5207 |

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|-----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Low Rise | 282.9 | 57.4261 | 3.3938 | 0.0000 | 128.6957 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 420 | 85.2562 | 5.0385 | 0.0000 | 191.0647 |
| Total | | 142.6823 | 8.4323 | 0.0000 | 319.7603 |

9.0 Operational Offroad

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

10.0 Vegetation

**6115a The Village Build-Out Plan
Riverside-Salton Sea County, Annual**

YEAR 2005 OPERATIONAL ANALYSIS ONLY. Please ignore construction emissions as they will be the same as opening year (2035)

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------|----------|---------------|-------------|--------------------|------------|
| Other Asphalt Surfaces | 2.55 | Acre | 2.55 | 111,078.00 | 0 |
| Apartments Low Rise | 1,230.00 | Dwelling Unit | 30.02 | 1,230,000.00 | 3518 |
| Regional Shopping Center | 800.00 | 1000sqft | 18.37 | 800,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 15 | | | Operational Year | 2005 |
| Utility Company | Imperial Irrigation District | | | | |
| CO2 Intensity (lb/MWhr) | 1270.9 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Redevelopment= 30.69 acres & Vacant land= 20.25 acre (total site acreage= 50.94). Approximately 5% of the total site on-site roadways/parking.

Construction Phase - Spring 2017 to beginning 2035. Construction timing 4.7% demo, 7.4% grading, 75% building const. (+ 2.7% here as site prep. not needed), 5.1% paving, & 5.1% ac based on CalEEMod defaults.

Demolition -

Grading - Site is a total of 50.94 acres.

Architectural Coating - SCAQMD Rule 1113 limits architectural coating to 50 g/L VOC. CalEEMod Appendix A calculations res. int. 1845000 ext. 621665 & non-res 1200000 int. 406665 ext. Ext. includes 6% of paved areas.

Vehicle Trips - As per TIA, trip generation is 38.56 trips per TSF for retail & 5.77 trips per DU for residential (includes the 13% reduction from internal trips).

Woodstoves - SCAQMD Rule 445 prohibits permanently installed wood burning devices in new developments.

Area Coating - SCAQMD Rule 1115 limits architectural coating to 50 g/L VOC. CalEEMod Appendix A, non-res. int. 1200000 ext. 406665 & residential int. 1845000 ext. 621665. Ext. includes 6% paved areas.

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|--------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 455,539.00 | 406,665.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 1,366,617.00 | 1,200,000.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 830,250.00 | 621,665.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 2,490,750.00 | 1,845,000.00 |
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 50 |
| tblAreaCoating | Area_Nonresidential_Interior | 1366617 | 1200000 |
| tblAreaCoating | Area_Residential_Exterior | 830250 | 621665 |

| | | | |
|---------------------------|---------------------------|----------|----------|
| tblAreaCoating | Area_Residential_Interior | 2490750 | 1845000 |
| tblConstructionPhase | NumDays | 75.00 | 238.00 |
| tblConstructionPhase | NumDays | 1,110.00 | 3,626.00 |
| tblConstructionPhase | NumDays | 70.00 | 219.00 |
| tblConstructionPhase | NumDays | 110.00 | 345.00 |
| tblConstructionPhase | NumDays | 75.00 | 238.00 |
| tblFireplaces | NumberGas | 984.00 | 1,107.00 |
| tblFireplaces | NumberWood | 123.00 | 0.00 |
| tblGrading | AcresOfGrading | 862.50 | 50.94 |
| tblLandUse | LotAcreage | 76.88 | 30.02 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2005 |
| tblVehicleTrips | ST_TR | 7.16 | 5.77 |
| tblVehicleTrips | ST_TR | 49.97 | 38.56 |
| tblVehicleTrips | SU_TR | 6.07 | 5.77 |
| tblVehicleTrips | SU_TR | 25.24 | 38.56 |
| tblVehicleTrips | WD_TR | 6.59 | 5.77 |
| tblVehicleTrips | WD_TR | 42.94 | 38.56 |
| tblWoodstoves | NumberCatalytic | 61.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 61.50 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|--------|------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2017 | 0.4437 | 4.6828 | 3.8351 | 5.0800e-003 | 0.2732 | 0.2267 | 0.4999 | 0.0453 | 0.2111 | 0.2564 | 0.0000 | 461.7675 | 461.7675 | 0.1054 | 0.0000 | 463.9805 |
| 2018 | 0.6882 | 7.6643 | 5.5685 | 8.2300e-003 | 1.1151 | 0.3589 | 1.4740 | 0.5853 | 0.3303 | 0.9156 | 0.0000 | 745.2694 | 745.2694 | 0.2257 | 0.0000 | 750.0079 |
| 2019 | 0.8403 | 5.9188 | 9.2968 | 0.0187 | 1.9970 | 0.2583 | 2.2553 | 0.8234 | 0.2398 | 1.0632 | 0.0000 | 1,429.2280 | 1,429.2280 | 0.1620 | 0.0000 | 1,432.6300 |
| 2020 | 0.8622 | 4.6839 | 10.8754 | 0.0247 | 1.4574 | 0.1928 | 1.6502 | 0.3904 | 0.1804 | 0.5708 | 0.0000 | 1,772.9750 | 1,772.9750 | 0.1202 | 0.0000 | 1,775.4996 |
| 2021 | 0.7930 | 4.1016 | 10.3643 | 0.0246 | 1.4518 | 0.1663 | 1.6181 | 0.3890 | 0.1556 | 0.5445 | 0.0000 | 1,750.9364 | 1,750.9364 | 0.1176 | 0.0000 | 1,753.4062 |
| 2022 | 0.7376 | 3.6798 | 9.9347 | 0.0245 | 1.4463 | 0.1458 | 1.5921 | 0.3875 | 0.1364 | 0.5239 | 0.0000 | 1,729.0331 | 1,729.0331 | 0.1151 | 0.0000 | 1,731.4509 |
| 2023 | 0.6872 | 3.3441 | 9.5204 | 0.0245 | 1.4463 | 0.1304 | 1.5766 | 0.3875 | 0.1219 | 0.5094 | 0.0000 | 1,714.9642 | 1,714.9642 | 0.1131 | 0.0000 | 1,717.3391 |
| 2024 | 0.6613 | 3.2236 | 9.3542 | 0.0249 | 1.4574 | 0.1198 | 1.5772 | 0.3904 | 0.1119 | 0.5024 | 0.0000 | 1,731.1916 | 1,731.1916 | 0.1138 | 0.0000 | 1,733.5807 |
| 2025 | 0.6289 | 3.0610 | 9.1145 | 0.0248 | 1.4518 | 0.1084 | 1.5602 | 0.3890 | 0.1012 | 0.4901 | 0.0000 | 1,714.8277 | 1,714.8277 | 0.1120 | 0.0000 | 1,717.1796 |
| 2026 | 0.6133 | 3.0328 | 8.9115 | 0.0248 | 1.4518 | 0.1081 | 1.5600 | 0.3890 | 0.1010 | 0.4899 | 0.0000 | 1,706.5545 | 1,706.5545 | 0.1112 | 0.0000 | 1,708.8903 |
| 2027 | 0.6040 | 3.0154 | 8.7865 | 0.0248 | 1.4518 | 0.1083 | 1.5601 | 0.3890 | 0.1011 | 0.4901 | 0.0000 | 1,699.5782 | 1,699.5782 | 0.1106 | 0.0000 | 1,701.9004 |
| 2028 | 0.5917 | 2.9883 | 8.6454 | 0.0247 | 1.4463 | 0.1079 | 1.5542 | 0.3875 | 0.1008 | 0.4882 | 0.0000 | 1,687.1935 | 1,687.1935 | 0.1096 | 0.0000 | 1,689.4948 |
| 2029 | 0.5858 | 2.9865 | 8.5753 | 0.0248 | 1.4519 | 0.1084 | 1.5602 | 0.3890 | 0.1012 | 0.4902 | 0.0000 | 1,688.7357 | 1,688.7357 | 0.1095 | 0.0000 | 1,691.0343 |
| 2030 | 0.5706 | 2.3885 | 8.5031 | 0.0253 | 1.4519 | 0.0592 | 1.5110 | 0.3890 | 0.0561 | 0.4450 | 0.0000 | 1,724.7281 | 1,724.7281 | 0.0519 | 0.0000 | 1,725.8183 |
| 2031 | 0.5675 | 2.3886 | 8.5087 | 0.0257 | 1.4520 | 0.0585 | 1.5105 | 0.3890 | 0.0554 | 0.4444 | 0.0000 | 1,745.1320 | 1,745.1320 | 0.0535 | 0.0000 | 1,746.2556 |
| 2032 | 0.5637 | 2.3912 | 8.4815 | 0.0258 | 1.4577 | 0.0588 | 1.5165 | 0.3906 | 0.0557 | 0.4463 | 0.0000 | 1,749.4913 | 1,749.4913 | 0.0533 | 0.0000 | 1,750.6114 |
| 2033 | 0.2781 | 1.2860 | 3.6843 | 9.3900e-003 | 0.3847 | 0.0464 | 0.4311 | 0.1031 | 0.0456 | 0.1486 | 0.0000 | 682.7792 | 682.7792 | 0.0246 | 0.0000 | 683.2950 |
| 2034 | 4.3432 | 0.2954 | 1.0866 | 3.5500e-003 | 0.2133 | 0.0111 | 0.2244 | 0.0566 | 0.0110 | 0.0676 | 0.0000 | 228.1274 | 228.1274 | 9.5200e-003 | 0.0000 | 228.3274 |

| | ROG | NOx | CO | SO2 | 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 | | | | | |
| 2035 | 0.4610 | 0.0136 | 0.0774 | 3.1000e-004 | 0.0225 | 2.9000e-004 | 0.0228 | 5.9800e-003 | 2.7000e-004 | 6.2600e-003 | 0.0000 | 18.4928 | 18.4928 | 7.3000e-004 | 0.0000 | 18.5081 |
| Total | 15.5212 | 61.1460 | 143.1241 | 0.3689 | 22.8802 | 2.3740 | 25.2542 | 6.6762 | 2.2165 | 8.8928 | 0.0000 | 25,981.0056 | 25,981.0056 | 1.8193 | 0.0000 | 26,019.2101 |

2.1 Overall Construction

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 | 0.4437 | 4.6828 | 3.8351 | 5.0800e-003 | 0.2732 | 0.2267 | 0.4999 | 0.0453 | 0.2111 | 0.2564 | 0.0000 | 461.7671 | 461.7671 | 0.1054 | 0.0000 | 463.9801 |
| 2018 | 0.6882 | 7.6643 | 5.5685 | 8.2300e-003 | 1.1151 | 0.3589 | 1.4740 | 0.5853 | 0.3303 | 0.9156 | 0.0000 | 745.2685 | 745.2685 | 0.2256 | 0.0000 | 750.0071 |
| 2019 | 0.8403 | 5.9188 | 9.2968 | 0.0187 | 1.9970 | 0.2583 | 2.2553 | 0.8234 | 0.2398 | 1.0632 | 0.0000 | 1,429.2274 | 1,429.2274 | 0.1620 | 0.0000 | 1,432.6294 |
| 2020 | 0.8622 | 4.6839 | 10.8754 | 0.0247 | 1.4574 | 0.1928 | 1.6502 | 0.3904 | 0.1804 | 0.5708 | 0.0000 | 1,772.9746 | 1,772.9746 | 0.1202 | 0.0000 | 1,775.4992 |
| 2021 | 0.7930 | 4.1016 | 10.3643 | 0.0246 | 1.4518 | 0.1663 | 1.6181 | 0.3890 | 0.1556 | 0.5445 | 0.0000 | 1,750.9361 | 1,750.9361 | 0.1176 | 0.0000 | 1,753.4059 |
| 2022 | 0.7376 | 3.6798 | 9.9347 | 0.0245 | 1.4463 | 0.1458 | 1.5921 | 0.3875 | 0.1364 | 0.5239 | 0.0000 | 1,729.0327 | 1,729.0327 | 0.1151 | 0.0000 | 1,731.4505 |
| 2023 | 0.6872 | 3.3441 | 9.5204 | 0.0245 | 1.4463 | 0.1304 | 1.5766 | 0.3875 | 0.1219 | 0.5094 | 0.0000 | 1,714.9638 | 1,714.9638 | 0.1131 | 0.0000 | 1,717.3387 |
| 2024 | 0.6613 | 3.2236 | 9.3542 | 0.0249 | 1.4574 | 0.1198 | 1.5772 | 0.3904 | 0.1119 | 0.5024 | 0.0000 | 1,731.1912 | 1,731.1912 | 0.1138 | 0.0000 | 1,733.5803 |
| 2025 | 0.6289 | 3.0610 | 9.1145 | 0.0248 | 1.4518 | 0.1084 | 1.5602 | 0.3890 | 0.1012 | 0.4901 | 0.0000 | 1,714.8273 | 1,714.8273 | 0.1120 | 0.0000 | 1,717.1793 |
| 2026 | 0.6133 | 3.0328 | 8.9115 | 0.0248 | 1.4518 | 0.1081 | 1.5600 | 0.3890 | 0.1010 | 0.4899 | 0.0000 | 1,706.5541 | 1,706.5541 | 0.1112 | 0.0000 | 1,708.8899 |
| 2027 | 0.6040 | 3.0154 | 8.7865 | 0.0248 | 1.4518 | 0.1083 | 1.5601 | 0.3890 | 0.1011 | 0.4901 | 0.0000 | 1,699.5778 | 1,699.5778 | 0.1106 | 0.0000 | 1,701.9000 |

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 | 11.0867 | 0.1441 | 10.6062 | 4.8000e-004 | | 0.1056 | 0.1056 | | 0.1050 | 0.1050 | 0.0000 | 886.8611 | 886.8611 | 0.0407 | 0.0160 | 892.6706 |
| Energy | 0.1010 | 0.8687 | 0.4074 | 5.5100e-003 | | 0.0698 | 0.0698 | | 0.0698 | 0.0698 | 0.0000 | 11,113.1709 | 11,113.1709 | 0.2499 | 0.0661 | 11,138.9027 |
| Mobile | 65.3197 | 328.4041 | 464.8451 | 2.2479 | 19.8342 | 13.1851 | 33.0193 | 5.9568 | 13.1851 | 19.1420 | 0.0000 | 43,846.8133 | 43,846.8133 | 3.2934 | 0.0000 | 43,915.9745 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 285.3647 | 0.0000 | 285.3647 | 16.8646 | 0.0000 | 639.5207 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 44.2244 | 1,602.5365 | 1,646.7609 | 4.5788 | 0.1148 | 1,778.5102 |
| Total | 76.5074 | 329.4169 | 475.8587 | 2.2539 | 19.8342 | 13.3605 | 33.1947 | 5.9568 | 13.3599 | 19.3167 | 329.5891 | 57,449.3818 | 57,778.9709 | 25.0274 | 0.1969 | 58,365.5786 |

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 | 11.0867 | 0.1441 | 10.6062 | 4.8000e-004 | | 0.1056 | 0.1056 | | 0.1050 | 0.1050 | 0.0000 | 886.8611 | 886.8611 | 0.0407 | 0.0160 | 892.6706 |
| Energy | 0.1010 | 0.8687 | 0.4074 | 5.5100e-003 | | 0.0698 | 0.0698 | | 0.0698 | 0.0698 | 0.0000 | 11,028.3923 | 11,028.3923 | 0.2480 | 0.0657 | 11,053.9594 |
| Mobile | 65.3197 | 328.4041 | 464.8451 | 2.2479 | 19.8342 | 13.1851 | 33.0193 | 5.9568 | 13.1851 | 19.1420 | 0.0000 | 43,846.8133 | 43,846.8133 | 3.2934 | 0.0000 | 43,915.9745 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 285.3647 | 0.0000 | 285.3647 | 16.8646 | 0.0000 | 639.5207 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 44.2244 | 1,602.5365 | 1,646.7609 | 4.5780 | 0.1147 | 1,778.4396 |
| Total | 76.5074 | 329.4169 | 475.8587 | 2.2539 | 19.8342 | 13.3605 | 33.1947 | 5.9568 | 13.3599 | 19.3167 | 329.5891 | 57,364.6032 | 57,694.1923 | 25.0246 | 0.1963 | 58,280.5647 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.15 | 0.01 | 0.29 | 0.15 |

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 | 3/15/2017 | 1/15/2018 | 5 | 219 | |
| 2 | Grading | Grading | 1/16/2018 | 5/13/2019 | 5 | 345 | |
| 3 | Building Construction | Building Construction | 5/14/2019 | 4/5/2033 | 5 | 3626 | |
| 4 | Paving | Paving | 4/6/2033 | 3/3/2034 | 5 | 238 | |
| 5 | Architectural Coating | Architectural Coating | 3/4/2034 | 1/31/2035 | 5 | 238 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50.94

Acres of Paving: 0

**Residential Indoor: 1,845,000; Residential Outdoor: 621,665; Non-Residential Indoor: 1,200,000; Non-Residential Outdoor: 406,665
(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 |
| 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 | 2,326.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 1,188.00 | 281.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 238.00 | 0.00 | 0.00 | 11.00 | 5.40 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

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 | | | | | 0.2406 | 0.0000 | 0.2406 | 0.0364 | 0.0000 | 0.0364 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.4210 | 4.4405 | 3.5249 | 4.1500e-003 | | 0.2210 | 0.2210 | | 0.2059 | 0.2059 | 0.0000 | 380.8295 | 380.8295 | 0.1045 | 0.0000 | 383.0234 |
| Total | 0.4210 | 4.4405 | 3.5249 | 4.1500e-003 | 0.2406 | 0.2210 | 0.4616 | 0.0364 | 0.2059 | 0.2423 | 0.0000 | 380.8295 | 380.8295 | 0.1045 | 0.0000 | 383.0234 |

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 | 0.0183 | 0.2365 | 0.2484 | 7.8000e-004 | 0.0198 | 5.5700e-003 | 0.0254 | 5.4200e-003 | 5.1300e-003 | 0.0106 | 0.0000 | 70.1165 | 70.1165 | 3.9000e-004 | 0.0000 | 70.1247 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3600e-003 | 5.7600e-003 | 0.0617 | 1.5000e-004 | 0.0128 | 8.0000e-005 | 0.0129 | 3.4100e-003 | 7.0000e-005 | 3.4800e-003 | 0.0000 | 10.8216 | 10.8216 | 5.2000e-004 | 0.0000 | 10.8325 |
| Total | 0.0226 | 0.2423 | 0.3102 | 9.3000e-004 | 0.0327 | 5.6500e-003 | 0.0383 | 8.8300e-003 | 5.2000e-003 | 0.0140 | 0.0000 | 80.9381 | 80.9381 | 9.1000e-004 | 0.0000 | 80.9572 |

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 | | | | | 0.2406 | 0.0000 | 0.2406 | 0.0364 | 0.0000 | 0.0364 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.4210 | 4.4405 | 3.5249 | 4.1500e-003 | | 0.2210 | 0.2210 | | 0.2059 | 0.2059 | 0.0000 | 380.8290 | 380.8290 | 0.1045 | 0.0000 | 383.0229 |
| Total | 0.4210 | 4.4405 | 3.5249 | 4.1500e-003 | 0.2406 | 0.2210 | 0.4616 | 0.0364 | 0.2059 | 0.2423 | 0.0000 | 380.8290 | 380.8290 | 0.1045 | 0.0000 | 383.0229 |

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 | 0.0183 | 0.2365 | 0.2484 | 7.8000e-004 | 0.0198 | 5.5700e-003 | 0.0254 | 5.4200e-003 | 5.1300e-003 | 0.0106 | 0.0000 | 70.1165 | 70.1165 | 3.9000e-004 | 0.0000 | 70.1247 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3600e-003 | 5.7600e-003 | 0.0617 | 1.5000e-004 | 0.0128 | 8.0000e-005 | 0.0129 | 3.4100e-003 | 7.0000e-005 | 3.4800e-003 | 0.0000 | 10.8216 | 10.8216 | 5.2000e-004 | 0.0000 | 10.8325 |
| Total | 0.0226 | 0.2423 | 0.3102 | 9.3000e-004 | 0.0327 | 5.6500e-003 | 0.0383 | 8.8300e-003 | 5.2000e-003 | 0.0140 | 0.0000 | 80.9381 | 80.9381 | 9.1000e-004 | 0.0000 | 80.9572 |

3.2 Demolition - 2018**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0127 | 0.0000 | 0.0127 | 1.9300e-003 | 0.0000 | 1.9300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0196 | 0.2026 | 0.1745 | 2.2000e-004 | | 9.9500e-003 | 9.9500e-003 | | 9.2700e-003 | 9.2700e-003 | 0.0000 | 19.8749 | 19.8749 | 5.5000e-003 | 0.0000 | 19.9903 |
| Total | 0.0196 | 0.2026 | 0.1745 | 2.2000e-004 | 0.0127 | 9.9500e-003 | 0.0227 | 1.9300e-003 | 9.2700e-003 | 0.0112 | 0.0000 | 19.8749 | 19.8749 | 5.5000e-003 | 0.0000 | 19.9903 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 9.3000e-004 | 0.0113 | 0.0129 | 4.0000e-005 | 0.0153 | 2.9000e-004 | 0.0156 | 3.7900e-003 | 2.7000e-004 | 4.0600e-003 | 0.0000 | 3.6440 | 3.6440 | 2.0000e-005 | 0.0000 | 3.6444 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.1000e-004 | 2.8000e-004 | 2.9600e-003 | 1.0000e-005 | 6.8000e-004 | 0.0000 | 6.8000e-004 | 1.8000e-004 | 0.0000 | 1.8000e-004 | 0.0000 | 0.5504 | 0.5504 | 3.0000e-005 | 0.0000 | 0.5510 |
| Total | 1.1400e-003 | 0.0116 | 0.0158 | 5.0000e-005 | 0.0160 | 2.9000e-004 | 0.0163 | 3.9700e-003 | 2.7000e-004 | 4.2400e-003 | 0.0000 | 4.1944 | 4.1944 | 5.0000e-005 | 0.0000 | 4.1954 |

3.2 Demolition - 2018**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0127 | 0.0000 | 0.0127 | 1.9300e-003 | 0.0000 | 1.9300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0196 | 0.2026 | 0.1745 | 2.2000e-004 | | 9.9500e-003 | 9.9500e-003 | | 9.2700e-003 | 9.2700e-003 | 0.0000 | 19.8749 | 19.8749 | 5.5000e-003 | 0.0000 | 19.9903 |
| Total | 0.0196 | 0.2026 | 0.1745 | 2.2000e-004 | 0.0127 | 9.9500e-003 | 0.0227 | 1.9300e-003 | 9.2700e-003 | 0.0112 | 0.0000 | 19.8749 | 19.8749 | 5.5000e-003 | 0.0000 | 19.9903 |

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 | 9.3000e-004 | 0.0113 | 0.0129 | 4.0000e-005 | 0.0153 | 2.9000e-004 | 0.0156 | 3.7900e-003 | 2.7000e-004 | 4.0600e-003 | 0.0000 | 3.6440 | 3.6440 | 2.0000e-005 | 0.0000 | 3.6444 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.1000e-004 | 2.8000e-004 | 2.9600e-003 | 1.0000e-005 | 6.8000e-004 | 0.0000 | 6.8000e-004 | 1.8000e-004 | 0.0000 | 1.8000e-004 | 0.0000 | 0.5504 | 0.5504 | 3.0000e-005 | 0.0000 | 0.5510 |
| Total | 1.1400e-003 | 0.0116 | 0.0158 | 5.0000e-005 | 0.0160 | 2.9000e-004 | 0.0163 | 3.9700e-003 | 2.7000e-004 | 4.2400e-003 | 0.0000 | 4.1944 | 4.1944 | 5.0000e-005 | 0.0000 | 4.1954 |

3.3 Grading - 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 | | | | | |
| Fugitive Dust | | | | | 1.0658 | 0.0000 | 1.0658 | 0.5739 | 0.0000 | 0.5739 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.6612 | 7.4417 | 5.2884 | 7.7100e-003 | | 0.3485 | 0.3485 | | 0.3206 | 0.3206 | 0.0000 | 704.5201 | 704.5201 | 0.2193 | 0.0000 | 709.1260 |
| Total | 0.6612 | 7.4417 | 5.2884 | 7.7100e-003 | 1.0658 | 0.3485 | 1.4143 | 0.5739 | 0.3206 | 0.8946 | 0.0000 | 704.5201 | 704.5201 | 0.2193 | 0.0000 | 709.1260 |

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 | 6.3000e-003 | 8.3800e-003 | 0.0898 | 2.4000e-004 | 0.0206 | 1.3000e-004 | 0.0207 | 5.4600e-003 | 1.2000e-004 | 5.5800e-003 | 0.0000 | 16.6799 | 16.6799 | 7.8000e-004 | 0.0000 | 16.6962 |
| Total | 6.3000e-003 | 8.3800e-003 | 0.0898 | 2.4000e-004 | 0.0206 | 1.3000e-004 | 0.0207 | 5.4600e-003 | 1.2000e-004 | 5.5800e-003 | 0.0000 | 16.6799 | 16.6799 | 7.8000e-004 | 0.0000 | 16.6962 |

3.3 Grading - 2018

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.0658 | 0.0000 | 1.0658 | 0.5739 | 0.0000 | 0.5739 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.6612 | 7.4417 | 5.2883 | 7.7100e-003 | | 0.3485 | 0.3485 | | 0.3206 | 0.3206 | 0.0000 | 704.5193 | 704.5193 | 0.2193 | 0.0000 | 709.1252 |
| Total | 0.6612 | 7.4417 | 5.2883 | 7.7100e-003 | 1.0658 | 0.3485 | 1.4143 | 0.5739 | 0.3206 | 0.8946 | 0.0000 | 704.5193 | 704.5193 | 0.2193 | 0.0000 | 709.1252 |

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 | 6.3000e-003 | 8.3800e-003 | 0.0898 | 2.4000e-004 | 0.0206 | 1.3000e-004 | 0.0207 | 5.4600e-003 | 1.2000e-004 | 5.5800e-003 | 0.0000 | 16.6799 | 16.6799 | 7.8000e-004 | 0.0000 | 16.6962 |
| Total | 6.3000e-003 | 8.3800e-003 | 0.0898 | 2.4000e-004 | 0.0206 | 1.3000e-004 | 0.0207 | 5.4600e-003 | 1.2000e-004 | 5.5800e-003 | 0.0000 | 16.6799 | 16.6799 | 7.8000e-004 | 0.0000 | 16.6962 |

3.3 Grading - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.0658 | 0.0000 | 1.0658 | 0.5739 | 0.0000 | 0.5739 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.2323 | 2.5744 | 1.9137 | 2.9300e-003 | | 0.1190 | 0.1190 | | 0.1095 | 0.1095 | 0.0000 | 263.3442 | 263.3442 | 0.0833 | 0.0000 | 265.0939 |
| Total | 0.2323 | 2.5744 | 1.9137 | 2.9300e-003 | 1.0658 | 0.1190 | 1.1848 | 0.5739 | 0.1095 | 0.6834 | 0.0000 | 263.3442 | 263.3442 | 0.0833 | 0.0000 | 265.0939 |

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 | 2.2000e-003 | 2.9200e-003 | 0.0316 | 9.0000e-005 | 7.8200e-003 | 5.0000e-005 | 7.8600e-003 | 2.0800e-003 | 5.0000e-005 | 2.1200e-003 | 0.0000 | 6.0995 | 6.0995 | 2.8000e-004 | 0.0000 | 6.1054 |
| Total | 2.2000e-003 | 2.9200e-003 | 0.0316 | 9.0000e-005 | 7.8200e-003 | 5.0000e-005 | 7.8600e-003 | 2.0800e-003 | 5.0000e-005 | 2.1200e-003 | 0.0000 | 6.0995 | 6.0995 | 2.8000e-004 | 0.0000 | 6.1054 |

3.3 Grading - 2019

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.0658 | 0.0000 | 1.0658 | 0.5739 | 0.0000 | 0.5739 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.2323 | 2.5744 | 1.9137 | 2.9300e-003 | | 0.1190 | 0.1190 | | 0.1095 | 0.1095 | 0.0000 | 263.3439 | 263.3439 | 0.0833 | 0.0000 | 265.0936 |
| Total | 0.2323 | 2.5744 | 1.9137 | 2.9300e-003 | 1.0658 | 0.1190 | 1.1848 | 0.5739 | 0.1095 | 0.6834 | 0.0000 | 263.3439 | 263.3439 | 0.0833 | 0.0000 | 265.0936 |

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 | 2.2000e-003 | 2.9200e-003 | 0.0316 | 9.0000e-005 | 7.8200e-003 | 5.0000e-005 | 7.8600e-003 | 2.0800e-003 | 5.0000e-005 | 2.1200e-003 | 0.0000 | 6.0995 | 6.0995 | 2.8000e-004 | 0.0000 | 6.1054 |
| Total | 2.2000e-003 | 2.9200e-003 | 0.0316 | 9.0000e-005 | 7.8200e-003 | 5.0000e-005 | 7.8600e-003 | 2.0800e-003 | 5.0000e-005 | 2.1200e-003 | 0.0000 | 6.0995 | 6.0995 | 2.8000e-004 | 0.0000 | 6.1054 |

3.4 Building Construction - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1952 | 1.7401 | 1.4210 | 2.2200e-003 | | 0.1067 | 0.1067 | | 0.1003 | 0.1003 | 0.0000 | 194.3219 | 194.3219 | 0.0473 | 0.0000 | 195.3148 |
| Total | 0.1952 | 1.7401 | 1.4210 | 2.2200e-003 | | 0.1067 | 0.1067 | | 0.1003 | 0.1003 | 0.0000 | 194.3219 | 194.3219 | 0.0473 | 0.0000 | 195.3148 |

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 | 0.1821 | 1.2980 | 2.6487 | 3.8500e-003 | 0.1122 | 0.0275 | 0.1397 | 0.0319 | 0.0253 | 0.0572 | 0.0000 | 332.3720 | 332.3720 | 2.1800e-003 | 0.0000 | 332.4178 |
| Worker | 0.2285 | 0.3033 | 3.2818 | 9.5600e-003 | 0.8112 | 5.0700e-003 | 0.8163 | 0.2155 | 4.7000e-003 | 0.2202 | 0.0000 | 633.0904 | 633.0904 | 0.0289 | 0.0000 | 633.6981 |
| Total | 0.4106 | 1.6013 | 5.9305 | 0.0134 | 0.9234 | 0.0326 | 0.9560 | 0.2474 | 0.0300 | 0.2774 | 0.0000 | 965.4623 | 965.4623 | 0.0311 | 0.0000 | 966.1159 |

3.4 Building Construction - 2019

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1952 | 1.7401 | 1.4210 | 2.2200e-003 | | 0.1067 | 0.1067 | | 0.1003 | 0.1003 | 0.0000 | 194.3217 | 194.3217 | 0.0473 | 0.0000 | 195.3145 |
| Total | 0.1952 | 1.7401 | 1.4210 | 2.2200e-003 | | 0.1067 | 0.1067 | | 0.1003 | 0.1003 | 0.0000 | 194.3217 | 194.3217 | 0.0473 | 0.0000 | 195.3145 |

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 | 0.1821 | 1.2980 | 2.6487 | 3.8500e-003 | 0.1122 | 0.0275 | 0.1397 | 0.0319 | 0.0253 | 0.0572 | 0.0000 | 332.3720 | 332.3720 | 2.1800e-003 | 0.0000 | 332.4178 |
| Worker | 0.2285 | 0.3033 | 3.2818 | 9.5600e-003 | 0.8112 | 5.0700e-003 | 0.8163 | 0.2155 | 4.7000e-003 | 0.2202 | 0.0000 | 633.0904 | 633.0904 | 0.0289 | 0.0000 | 633.6981 |
| Total | 0.4106 | 1.6013 | 5.9305 | 0.0134 | 0.9234 | 0.0326 | 0.9560 | 0.2474 | 0.0300 | 0.2774 | 0.0000 | 965.4623 | 965.4623 | 0.0311 | 0.0000 | 966.1159 |

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 | 0.2766 | 2.5000 | 2.2019 | 3.5100e-003 | | 0.1458 | 0.1458 | | 0.1371 | 0.1371 | 0.0000 | 302.1514 | 302.1514 | 0.0736 | 0.0000 | 303.6973 |
| Total | 0.2766 | 2.5000 | 2.2019 | 3.5100e-003 | | 0.1458 | 0.1458 | | 0.1371 | 0.1371 | 0.0000 | 302.1514 | 302.1514 | 0.0736 | 0.0000 | 303.6973 |

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 | 0.2498 | 1.7400 | 3.8538 | 6.0600e-003 | 0.1770 | 0.0389 | 0.2159 | 0.0504 | 0.0358 | 0.0862 | 0.0000 | 512.4404 | 512.4404 | 3.3100e-003 | 0.0000 | 512.5098 |
| Worker | 0.3359 | 0.4439 | 4.8197 | 0.0151 | 1.2804 | 8.0800e-003 | 1.2885 | 0.3401 | 7.4900e-003 | 0.3475 | 0.0000 | 958.3832 | 958.3832 | 0.0433 | 0.0000 | 959.2925 |
| Total | 0.5856 | 2.1839 | 8.6735 | 0.0211 | 1.4574 | 0.0470 | 1.5044 | 0.3905 | 0.0433 | 0.4338 | 0.0000 | 1,470.8236 | 1,470.8236 | 0.0466 | 0.0000 | 1,471.8023 |

3.4 Building Construction - 2020**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 | 0.2766 | 2.5000 | 2.2019 | 3.5100e-003 | | 0.1458 | 0.1458 | | 0.1371 | 0.1371 | 0.0000 | 302.1510 | 302.1510 | 0.0736 | 0.0000 | 303.6969 |
| Total | 0.2766 | 2.5000 | 2.2019 | 3.5100e-003 | | 0.1458 | 0.1458 | | 0.1371 | 0.1371 | 0.0000 | 302.1510 | 302.1510 | 0.0736 | 0.0000 | 303.6969 |

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 | 0.2498 | 1.7400 | 3.8538 | 6.0600e-003 | 0.1770 | 0.0389 | 0.2159 | 0.0504 | 0.0358 | 0.0862 | 0.0000 | 512.4404 | 512.4404 | 3.3100e-003 | 0.0000 | 512.5098 |
| Worker | 0.3359 | 0.4439 | 4.8197 | 0.0151 | 1.2804 | 8.0800e-003 | 1.2885 | 0.3401 | 7.4900e-003 | 0.3475 | 0.0000 | 958.3832 | 958.3832 | 0.0433 | 0.0000 | 959.2925 |
| Total | 0.5856 | 2.1839 | 8.6735 | 0.0211 | 1.4574 | 0.0470 | 1.5044 | 0.3905 | 0.0433 | 0.4338 | 0.0000 | 1,470.8236 | 1,470.8236 | 0.0466 | 0.0000 | 1,471.8023 |

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 | 0.2471 | 2.2629 | 2.1582 | 3.5000e-003 | | 0.1246 | 0.1246 | | 0.1172 | 0.1172 | 0.0000 | 301.0339 | 301.0339 | 0.0725 | 0.0000 | 302.5568 |
| Total | 0.2471 | 2.2629 | 2.1582 | 3.5000e-003 | | 0.1246 | 0.1246 | | 0.1172 | 0.1172 | 0.0000 | 301.0339 | 301.0339 | 0.0725 | 0.0000 | 302.5568 |

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 | 0.2303 | 1.4245 | 3.6432 | 6.0300e-003 | 0.1763 | 0.0334 | 0.2097 | 0.0502 | 0.0307 | 0.0809 | 0.0000 | 509.8375 | 509.8375 | 3.3300e-003 | 0.0000 | 509.9075 |
| Worker | 0.3157 | 0.4142 | 4.5630 | 0.0151 | 1.2755 | 8.2500e-003 | 1.2838 | 0.3388 | 7.6500e-003 | 0.3464 | 0.0000 | 940.0651 | 940.0651 | 0.0418 | 0.0000 | 940.9420 |
| Total | 0.5459 | 1.8387 | 8.2061 | 0.0211 | 1.4518 | 0.0417 | 1.4935 | 0.3890 | 0.0384 | 0.4273 | 0.0000 | 1,449.9026 | 1,449.9026 | 0.0451 | 0.0000 | 1,450.8494 |

3.4 Building Construction - 2021

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2471 | 2.2629 | 2.1582 | 3.5000e-003 | | 0.1246 | 0.1246 | | 0.1172 | 0.1172 | 0.0000 | 301.0335 | 301.0335 | 0.0725 | 0.0000 | 302.5565 |
| Total | 0.2471 | 2.2629 | 2.1582 | 3.5000e-003 | | 0.1246 | 0.1246 | | 0.1172 | 0.1172 | 0.0000 | 301.0335 | 301.0335 | 0.0725 | 0.0000 | 302.5565 |

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 | 0.2303 | 1.4245 | 3.6432 | 6.0300e-003 | 0.1763 | 0.0334 | 0.2097 | 0.0502 | 0.0307 | 0.0809 | 0.0000 | 509.8375 | 509.8375 | 3.3300e-003 | 0.0000 | 509.9075 |
| Worker | 0.3157 | 0.4142 | 4.5630 | 0.0151 | 1.2755 | 8.2500e-003 | 1.2838 | 0.3388 | 7.6500e-003 | 0.3464 | 0.0000 | 940.0651 | 940.0651 | 0.0418 | 0.0000 | 940.9420 |
| Total | 0.5459 | 1.8387 | 8.2061 | 0.0211 | 1.4518 | 0.0417 | 1.4935 | 0.3890 | 0.0384 | 0.4273 | 0.0000 | 1,449.9026 | 1,449.9026 | 0.0451 | 0.0000 | 1,450.8494 |

3.4 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2209 | 2.0197 | 2.1226 | 3.4900e-003 | | 0.1047 | 0.1047 | | 0.0986 | 0.0986 | 0.0000 | 299.9946 | 299.9946 | 0.0718 | 0.0000 | 301.5017 |
| Total | 0.2209 | 2.0197 | 2.1226 | 3.4900e-003 | | 0.1047 | 0.1047 | | 0.0986 | 0.0986 | 0.0000 | 299.9946 | 299.9946 | 0.0718 | 0.0000 | 301.5017 |

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 | 0.2199 | 1.2715 | 3.5229 | 5.9900e-003 | 0.1757 | 0.0328 | 0.2084 | 0.0500 | 0.0301 | 0.0801 | 0.0000 | 507.3396 | 507.3396 | 3.3800e-003 | 0.0000 | 507.4106 |
| Worker | 0.2968 | 0.3885 | 4.2892 | 0.0150 | 1.2706 | 8.3100e-003 | 1.2789 | 0.3375 | 7.7100e-003 | 0.3452 | 0.0000 | 921.6988 | 921.6988 | 0.0400 | 0.0000 | 922.5386 |
| Total | 0.5167 | 1.6601 | 7.8121 | 0.0210 | 1.4463 | 0.0411 | 1.4873 | 0.3875 | 0.0378 | 0.4253 | 0.0000 | 1,429.0385 | 1,429.0385 | 0.0434 | 0.0000 | 1,429.9492 |

3.4 Building Construction - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2209 | 2.0197 | 2.1226 | 3.4900e-003 | | 0.1047 | 0.1047 | | 0.0986 | 0.0986 | 0.0000 | 299.9943 | 299.9943 | 0.0718 | 0.0000 | 301.5013 |
| Total | 0.2209 | 2.0197 | 2.1226 | 3.4900e-003 | | 0.1047 | 0.1047 | | 0.0986 | 0.0986 | 0.0000 | 299.9943 | 299.9943 | 0.0718 | 0.0000 | 301.5013 |

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 | 0.2199 | 1.2715 | 3.5229 | 5.9900e-003 | 0.1757 | 0.0328 | 0.2084 | 0.0500 | 0.0301 | 0.0801 | 0.0000 | 507.3396 | 507.3396 | 3.3800e-003 | 0.0000 | 507.4106 |
| Worker | 0.2968 | 0.3885 | 4.2892 | 0.0150 | 1.2706 | 8.3100e-003 | 1.2789 | 0.3375 | 7.7100e-003 | 0.3452 | 0.0000 | 921.6988 | 921.6988 | 0.0400 | 0.0000 | 922.5386 |
| Total | 0.5167 | 1.6601 | 7.8121 | 0.0210 | 1.4463 | 0.0411 | 1.4873 | 0.3875 | 0.0378 | 0.4253 | 0.0000 | 1,429.0385 | 1,429.0385 | 0.0434 | 0.0000 | 1,429.9492 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2036 | 1.8606 | 2.1072 | 3.4900e-003 | | 0.0906 | 0.0906 | | 0.0852 | 0.0852 | 0.0000 | 300.0980 | 300.0980 | 0.0713 | 0.0000 | 301.5949 |
| Total | 0.2036 | 1.8606 | 2.1072 | 3.4900e-003 | | 0.0906 | 0.0906 | | 0.0852 | 0.0852 | 0.0000 | 300.0980 | 300.0980 | 0.0713 | 0.0000 | 301.5949 |

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 | 0.2025 | 1.1155 | 3.3472 | 5.9800e-003 | 0.1756 | 0.0314 | 0.2071 | 0.0500 | 0.0289 | 0.0789 | 0.0000 | 506.1717 | 506.1717 | 3.1800e-003 | 0.0000 | 506.2384 |
| Worker | 0.2811 | 0.3680 | 4.0660 | 0.0150 | 1.2706 | 8.4000e-003 | 1.2790 | 0.3375 | 7.7900e-003 | 0.3452 | 0.0000 | 908.6945 | 908.6945 | 0.0386 | 0.0000 | 909.5057 |
| Total | 0.4836 | 1.4835 | 7.4132 | 0.0210 | 1.4463 | 0.0398 | 1.4861 | 0.3875 | 0.0367 | 0.4242 | 0.0000 | 1,414.8662 | 1,414.8662 | 0.0418 | 0.0000 | 1,415.7442 |

3.4 Building Construction - 2023

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 | 0.2036 | 1.8606 | 2.1072 | 3.4900e-003 | | 0.0906 | 0.0906 | | 0.0852 | 0.0852 | 0.0000 | 300.0976 | 300.0976 | 0.0713 | 0.0000 | 301.5946 |
| Total | 0.2036 | 1.8606 | 2.1072 | 3.4900e-003 | | 0.0906 | 0.0906 | | 0.0852 | 0.0852 | 0.0000 | 300.0976 | 300.0976 | 0.0713 | 0.0000 | 301.5946 |

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 | 0.2025 | 1.1155 | 3.3472 | 5.9800e-003 | 0.1756 | 0.0314 | 0.2071 | 0.0500 | 0.0289 | 0.0789 | 0.0000 | 506.1717 | 506.1717 | 3.1800e-003 | 0.0000 | 506.2384 |
| Worker | 0.2811 | 0.3680 | 4.0660 | 0.0150 | 1.2706 | 8.4000e-003 | 1.2790 | 0.3375 | 7.7900e-003 | 0.3452 | 0.0000 | 908.6945 | 908.6945 | 0.0386 | 0.0000 | 909.5057 |
| Total | 0.4836 | 1.4835 | 7.4132 | 0.0210 | 1.4463 | 0.0398 | 1.4861 | 0.3875 | 0.0367 | 0.4242 | 0.0000 | 1,414.8662 | 1,414.8662 | 0.0418 | 0.0000 | 1,415.7442 |

3.4 Building Construction - 2024

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 | 0.1920 | 1.7524 | 2.1135 | 3.5200e-003 | | 0.0800 | 0.0800 | | 0.0752 | 0.0752 | 0.0000 | 302.4646 | 302.4646 | 0.0714 | 0.0000 | 303.9643 |
| Total | 0.1920 | 1.7524 | 2.1135 | 3.5200e-003 | | 0.0800 | 0.0800 | | 0.0752 | 0.0752 | 0.0000 | 302.4646 | 302.4646 | 0.0714 | 0.0000 | 303.9643 |

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 | 0.1974 | 1.1150 | 3.2511 | 6.0400e-003 | 0.1770 | 0.0310 | 0.2080 | 0.0504 | 0.0285 | 0.0789 | 0.0000 | 511.8229 | 511.8229 | 3.2800e-003 | 0.0000 | 511.8918 |
| Worker | 0.2719 | 0.3562 | 3.9897 | 0.0153 | 1.2804 | 8.8200e-003 | 1.2892 | 0.3401 | 8.1800e-003 | 0.3482 | 0.0000 | 916.9042 | 916.9042 | 0.0391 | 0.0000 | 917.7246 |
| Total | 0.4694 | 1.4712 | 7.2408 | 0.0214 | 1.4574 | 0.0398 | 1.4972 | 0.3904 | 0.0367 | 0.4271 | 0.0000 | 1,428.7270 | 1,428.7270 | 0.0424 | 0.0000 | 1,429.6164 |

3.4 Building Construction - 2024

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 | 0.1920 | 1.7524 | 2.1135 | 3.5200e-003 | | 0.0800 | 0.0800 | | 0.0752 | 0.0752 | 0.0000 | 302.4642 | 302.4642 | 0.0714 | 0.0000 | 303.9639 |
| Total | 0.1920 | 1.7524 | 2.1135 | 3.5200e-003 | | 0.0800 | 0.0800 | | 0.0752 | 0.0752 | 0.0000 | 302.4642 | 302.4642 | 0.0714 | 0.0000 | 303.9639 |

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 | 0.1974 | 1.1150 | 3.2511 | 6.0400e-003 | 0.1770 | 0.0310 | 0.2080 | 0.0504 | 0.0285 | 0.0789 | 0.0000 | 511.8229 | 511.8229 | 3.2800e-003 | 0.0000 | 511.8918 |
| Worker | 0.2719 | 0.3562 | 3.9897 | 0.0153 | 1.2804 | 8.8200e-003 | 1.2892 | 0.3401 | 8.1800e-003 | 0.3482 | 0.0000 | 916.9042 | 916.9042 | 0.0391 | 0.0000 | 917.7246 |
| Total | 0.4694 | 1.4712 | 7.2408 | 0.0214 | 1.4574 | 0.0398 | 1.4972 | 0.3904 | 0.0367 | 0.4271 | 0.0000 | 1,428.7270 | 1,428.7270 | 0.0424 | 0.0000 | 1,429.6164 |

3.4 Building Construction - 2025

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |

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 | 0.1914 | 1.1008 | 3.1916 | 6.0200e-003 | 0.1763 | 0.0310 | 0.2073 | 0.0502 | 0.0285 | 0.0787 | 0.0000 | 509.8326 | 509.8326 | 3.2800e-003 | 0.0000 | 509.9014 |
| Worker | 0.2599 | 0.3407 | 3.8282 | 0.0153 | 1.2755 | 8.8900e-003 | 1.2844 | 0.3388 | 8.2500e-003 | 0.3470 | 0.0000 | 903.5932 | 903.5932 | 0.0380 | 0.0000 | 904.3908 |
| Total | 0.4512 | 1.4416 | 7.0198 | 0.0213 | 1.4518 | 0.0399 | 1.4917 | 0.3890 | 0.0367 | 0.4257 | 0.0000 | 1,413.4258 | 1,413.4258 | 0.0413 | 0.0000 | 1,414.2922 |

3.4 Building Construction - 2025

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |

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 | 0.1914 | 1.1008 | 3.1916 | 6.0200e-003 | 0.1763 | 0.0310 | 0.2073 | 0.0502 | 0.0285 | 0.0787 | 0.0000 | 509.8326 | 509.8326 | 3.2800e-003 | 0.0000 | 509.9014 |
| Worker | 0.2599 | 0.3407 | 3.8282 | 0.0153 | 1.2755 | 8.8900e-003 | 1.2844 | 0.3388 | 8.2500e-003 | 0.3470 | 0.0000 | 903.5932 | 903.5932 | 0.0380 | 0.0000 | 904.3908 |
| Total | 0.4512 | 1.4416 | 7.0198 | 0.0213 | 1.4518 | 0.0399 | 1.4917 | 0.3890 | 0.0367 | 0.4257 | 0.0000 | 1,413.4258 | 1,413.4258 | 0.0413 | 0.0000 | 1,414.2922 |

3.4 Building Construction - 2026

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |

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 | 0.1850 | 1.0839 | 3.1060 | 6.0200e-003 | 0.1763 | 0.0306 | 0.2069 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.7822 | 509.7822 | 3.2500e-003 | 0.0000 | 509.8505 |
| Worker | 0.2507 | 0.3294 | 3.7108 | 0.0153 | 1.2755 | 9.0000e-003 | 1.2845 | 0.3388 | 8.3500e-003 | 0.3471 | 0.0000 | 895.3704 | 895.3704 | 0.0372 | 0.0000 | 896.1524 |
| Total | 0.4356 | 1.4133 | 6.8168 | 0.0213 | 1.4518 | 0.0396 | 1.4914 | 0.3890 | 0.0365 | 0.4255 | 0.0000 | 1,405.1526 | 1,405.1526 | 0.0405 | 0.0000 | 1,406.0029 |

3.4 Building Construction - 2026

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |

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 | 0.1850 | 1.0839 | 3.1060 | 6.0200e-003 | 0.1763 | 0.0306 | 0.2069 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.7822 | 509.7822 | 3.2500e-003 | 0.0000 | 509.8505 |
| Worker | 0.2507 | 0.3294 | 3.7108 | 0.0153 | 1.2755 | 9.0000e-003 | 1.2845 | 0.3388 | 8.3500e-003 | 0.3471 | 0.0000 | 895.3704 | 895.3704 | 0.0372 | 0.0000 | 896.1524 |
| Total | 0.4356 | 1.4133 | 6.8168 | 0.0213 | 1.4518 | 0.0396 | 1.4914 | 0.3890 | 0.0365 | 0.4255 | 0.0000 | 1,405.1526 | 1,405.1526 | 0.0405 | 0.0000 | 1,406.0029 |

3.4 Building Construction - 2027

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |

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 | 0.1837 | 1.0764 | 3.0812 | 6.0200e-003 | 0.1763 | 0.0307 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8019 | 509.8019 | 3.2600e-003 | 0.0000 | 509.8702 |
| Worker | 0.2426 | 0.3196 | 3.6105 | 0.0153 | 1.2755 | 9.0900e-003 | 1.2846 | 0.3388 | 8.4300e-003 | 0.3472 | 0.0000 | 888.3744 | 888.3744 | 0.0366 | 0.0000 | 889.1427 |
| Total | 0.4263 | 1.3959 | 6.6918 | 0.0213 | 1.4518 | 0.0398 | 1.4916 | 0.3890 | 0.0367 | 0.4256 | 0.0000 | 1,398.1763 | 1,398.1763 | 0.0399 | 0.0000 | 1,399.0130 |

3.4 Building Construction - 2027

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |

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 | 0.1837 | 1.0764 | 3.0812 | 6.0200e-003 | 0.1763 | 0.0307 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8019 | 509.8019 | 3.2600e-003 | 0.0000 | 509.8702 |
| Worker | 0.2426 | 0.3196 | 3.6105 | 0.0153 | 1.2755 | 9.0900e-003 | 1.2846 | 0.3388 | 8.4300e-003 | 0.3472 | 0.0000 | 888.3744 | 888.3744 | 0.0366 | 0.0000 | 889.1427 |
| Total | 0.4263 | 1.3959 | 6.6918 | 0.0213 | 1.4518 | 0.0398 | 1.4916 | 0.3890 | 0.0367 | 0.4256 | 0.0000 | 1,398.1763 | 1,398.1763 | 0.0399 | 0.0000 | 1,399.0130 |

3.4 Building Construction - 2028

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 | 0.1770 | 1.6133 | 2.0867 | 3.4900e-003 | | 0.0683 | 0.0683 | | 0.0642 | 0.0642 | 0.0000 | 300.2471 | 300.2471 | 0.0705 | 0.0000 | 301.7269 |
| Total | 0.1770 | 1.6133 | 2.0867 | 3.4900e-003 | | 0.0683 | 0.0683 | | 0.0642 | 0.0642 | 0.0000 | 300.2471 | 300.2471 | 0.0705 | 0.0000 | 301.7269 |

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 | 0.1802 | 1.0654 | 3.0481 | 5.9900e-003 | 0.1757 | 0.0305 | 0.2062 | 0.0500 | 0.0281 | 0.0781 | 0.0000 | 507.8538 | 507.8538 | 3.2400e-003 | 0.0000 | 507.9218 |
| Worker | 0.2344 | 0.3097 | 3.5106 | 0.0152 | 1.2706 | 9.1300e-003 | 1.2798 | 0.3375 | 8.4700e-003 | 0.3459 | 0.0000 | 879.0926 | 879.0926 | 0.0359 | 0.0000 | 879.8460 |
| Total | 0.4147 | 1.3751 | 6.5586 | 0.0212 | 1.4463 | 0.0396 | 1.4859 | 0.3875 | 0.0365 | 0.4240 | 0.0000 | 1,386.9464 | 1,386.9464 | 0.0391 | 0.0000 | 1,387.7678 |

3.4 Building Construction - 2028

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 | 0.1770 | 1.6133 | 2.0867 | 3.4900e-003 | | 0.0683 | 0.0683 | | 0.0642 | 0.0642 | 0.0000 | 300.2467 | 300.2467 | 0.0705 | 0.0000 | 301.7266 |
| Total | 0.1770 | 1.6133 | 2.0867 | 3.4900e-003 | | 0.0683 | 0.0683 | | 0.0642 | 0.0642 | 0.0000 | 300.2467 | 300.2467 | 0.0705 | 0.0000 | 301.7266 |

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 | 0.1802 | 1.0654 | 3.0481 | 5.9900e-003 | 0.1757 | 0.0305 | 0.2062 | 0.0500 | 0.0281 | 0.0781 | 0.0000 | 507.8538 | 507.8538 | 3.2400e-003 | 0.0000 | 507.9218 |
| Worker | 0.2344 | 0.3097 | 3.5106 | 0.0152 | 1.2706 | 9.1300e-003 | 1.2798 | 0.3375 | 8.4700e-003 | 0.3459 | 0.0000 | 879.0926 | 879.0926 | 0.0359 | 0.0000 | 879.8460 |
| Total | 0.4147 | 1.3751 | 6.5586 | 0.0212 | 1.4463 | 0.0396 | 1.4859 | 0.3875 | 0.0365 | 0.4240 | 0.0000 | 1,386.9464 | 1,386.9464 | 0.0391 | 0.0000 | 1,387.7678 |

3.4 Building Construction - 2029

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4019 | 301.4019 | 0.0707 | 0.0000 | 302.8874 |

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 | 0.1798 | 1.0643 | 3.0386 | 6.0200e-003 | 0.1764 | 0.0306 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8245 | 509.8245 | 3.2500e-003 | 0.0000 | 509.8928 |
| Worker | 0.2283 | 0.3027 | 3.4419 | 0.0153 | 1.2755 | 9.2300e-003 | 1.2847 | 0.3388 | 8.5600e-003 | 0.3473 | 0.0000 | 877.5094 | 877.5094 | 0.0355 | 0.0000 | 878.2540 |
| Total | 0.4081 | 1.3670 | 6.4805 | 0.0213 | 1.4519 | 0.0399 | 1.4917 | 0.3890 | 0.0367 | 0.4257 | 0.0000 | 1,387.3338 | 1,387.3338 | 0.0387 | 0.0000 | 1,388.1468 |

3.4 Building Construction - 2029

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 | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |
| Total | 0.1777 | 1.6195 | 2.0948 | 3.5000e-003 | | 0.0685 | 0.0685 | | 0.0645 | 0.0645 | 0.0000 | 301.4015 | 301.4015 | 0.0707 | 0.0000 | 302.8871 |

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 | 0.1798 | 1.0643 | 3.0386 | 6.0200e-003 | 0.1764 | 0.0306 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8245 | 509.8245 | 3.2500e-003 | 0.0000 | 509.8928 |
| Worker | 0.2283 | 0.3027 | 3.4419 | 0.0153 | 1.2755 | 9.2300e-003 | 1.2847 | 0.3388 | 8.5600e-003 | 0.3473 | 0.0000 | 877.5094 | 877.5094 | 0.0355 | 0.0000 | 878.2540 |
| Total | 0.4081 | 1.3670 | 6.4805 | 0.0213 | 1.4519 | 0.0399 | 1.4917 | 0.3890 | 0.0367 | 0.4257 | 0.0000 | 1,387.3338 | 1,387.3338 | 0.0387 | 0.0000 | 1,388.1468 |

3.4 Building Construction - 2030

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 | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5281 | 341.5281 | 0.0137 | 0.0000 | 341.8160 |
| Total | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5281 | 341.5281 | 0.0137 | 0.0000 | 341.8160 |

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 | 0.1787 | 1.0601 | 3.0276 | 6.0200e-003 | 0.1764 | 0.0306 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8357 | 509.8357 | 3.2500e-003 | 0.0000 | 509.9041 |
| Worker | 0.2217 | 0.2952 | 3.3704 | 0.0153 | 1.2755 | 9.2800e-003 | 1.2848 | 0.3388 | 8.6100e-003 | 0.3474 | 0.0000 | 873.3643 | 873.3643 | 0.0350 | 0.0000 | 874.0983 |
| Total | 0.4004 | 1.3552 | 6.3980 | 0.0213 | 1.4519 | 0.0399 | 1.4918 | 0.3890 | 0.0368 | 0.4258 | 0.0000 | 1,383.2000 | 1,383.2000 | 0.0382 | 0.0000 | 1,384.0023 |

3.4 Building Construction - 2030

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 | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5277 | 341.5277 | 0.0137 | 0.0000 | 341.8156 |
| Total | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5277 | 341.5277 | 0.0137 | 0.0000 | 341.8156 |

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 | 0.1787 | 1.0601 | 3.0276 | 6.0200e-003 | 0.1764 | 0.0306 | 0.2070 | 0.0502 | 0.0282 | 0.0784 | 0.0000 | 509.8357 | 509.8357 | 3.2500e-003 | 0.0000 | 509.9041 |
| Worker | 0.2217 | 0.2952 | 3.3704 | 0.0153 | 1.2755 | 9.2800e-003 | 1.2848 | 0.3388 | 8.6100e-003 | 0.3474 | 0.0000 | 873.3643 | 873.3643 | 0.0350 | 0.0000 | 874.0983 |
| Total | 0.4004 | 1.3552 | 6.3980 | 0.0213 | 1.4519 | 0.0399 | 1.4918 | 0.3890 | 0.0368 | 0.4258 | 0.0000 | 1,383.2000 | 1,383.2000 | 0.0382 | 0.0000 | 1,384.0023 |

3.4 Building Construction - 2031**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 | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5281 | 341.5281 | 0.0137 | 0.0000 | 341.8160 |
| Total | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5281 | 341.5281 | 0.0137 | 0.0000 | 341.8160 |

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 | 0.1788 | 1.0636 | 3.0092 | 6.0600e-003 | 0.1765 | 0.0295 | 0.2060 | 0.0503 | 0.0271 | 0.0774 | 0.0000 | 513.5618 | 513.5618 | 3.3600e-003 | 0.0000 | 513.6322 |
| Worker | 0.2185 | 0.2918 | 3.3943 | 0.0156 | 1.2755 | 9.7600e-003 | 1.2853 | 0.3388 | 9.0500e-003 | 0.3478 | 0.0000 | 890.0421 | 890.0421 | 0.0364 | 0.0000 | 890.8074 |
| Total | 0.3973 | 1.3553 | 6.4036 | 0.0217 | 1.4520 | 0.0392 | 1.4912 | 0.3890 | 0.0361 | 0.4252 | 0.0000 | 1,403.6039 | 1,403.6039 | 0.0398 | 0.0000 | 1,404.4396 |

3.4 Building Construction - 2031

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 | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5277 | 341.5277 | 0.0137 | 0.0000 | 341.8156 |
| Total | 0.1702 | 1.0333 | 2.1051 | 4.0200e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 341.5277 | 341.5277 | 0.0137 | 0.0000 | 341.8156 |

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 | 0.1788 | 1.0636 | 3.0092 | 6.0600e-003 | 0.1765 | 0.0295 | 0.2060 | 0.0503 | 0.0271 | 0.0774 | 0.0000 | 513.5618 | 513.5618 | 3.3600e-003 | 0.0000 | 513.6322 |
| Worker | 0.2185 | 0.2918 | 3.3943 | 0.0156 | 1.2755 | 9.7600e-003 | 1.2853 | 0.3388 | 9.0500e-003 | 0.3478 | 0.0000 | 890.0421 | 890.0421 | 0.0364 | 0.0000 | 890.8074 |
| Total | 0.3973 | 1.3553 | 6.4036 | 0.0217 | 1.4520 | 0.0392 | 1.4912 | 0.3890 | 0.0361 | 0.4252 | 0.0000 | 1,403.6039 | 1,403.6039 | 0.0398 | 0.0000 | 1,404.4396 |

3.4 Building Construction - 2032

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 | 0.1708 | 1.0372 | 2.1132 | 4.0400e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 342.8367 | 342.8367 | 0.0138 | 0.0000 | 343.1257 |
| Total | 0.1708 | 1.0372 | 2.1132 | 4.0400e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 342.8367 | 342.8367 | 0.0138 | 0.0000 | 343.1257 |

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 | 0.1788 | 1.0668 | 3.0138 | 6.0900e-003 | 0.1773 | 0.0296 | 0.2070 | 0.0505 | 0.0273 | 0.0778 | 0.0000 | 516.0921 | 516.0921 | 3.3700e-003 | 0.0000 | 516.1629 |
| Worker | 0.2141 | 0.2872 | 3.3545 | 0.0157 | 1.2804 | 9.8200e-003 | 1.2902 | 0.3401 | 9.1100e-003 | 0.3492 | 0.0000 | 890.5626 | 890.5626 | 0.0362 | 0.0000 | 891.3229 |
| Total | 0.3929 | 1.3539 | 6.3683 | 0.0218 | 1.4577 | 0.0395 | 1.4972 | 0.3906 | 0.0364 | 0.4270 | 0.0000 | 1,406.6547 | 1,406.6547 | 0.0396 | 0.0000 | 1,407.4858 |

3.4 Building Construction - 2032

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 | 0.1708 | 1.0372 | 2.1132 | 4.0400e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 342.8363 | 342.8363 | 0.0138 | 0.0000 | 343.1252 |
| Total | 0.1708 | 1.0372 | 2.1132 | 4.0400e-003 | | 0.0193 | 0.0193 | | 0.0193 | 0.0193 | 0.0000 | 342.8363 | 342.8363 | 0.0138 | 0.0000 | 343.1252 |

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 | 0.1788 | 1.0668 | 3.0138 | 6.0900e-003 | 0.1773 | 0.0296 | 0.2070 | 0.0505 | 0.0273 | 0.0778 | 0.0000 | 516.0921 | 516.0921 | 3.3700e-003 | 0.0000 | 516.1629 |
| Worker | 0.2141 | 0.2872 | 3.3545 | 0.0157 | 1.2804 | 9.8200e-003 | 1.2902 | 0.3401 | 9.1100e-003 | 0.3492 | 0.0000 | 890.5626 | 890.5626 | 0.0362 | 0.0000 | 891.3229 |
| Total | 0.3929 | 1.3539 | 6.3683 | 0.0218 | 1.4577 | 0.0395 | 1.4972 | 0.3906 | 0.0364 | 0.4270 | 0.0000 | 1,406.6547 | 1,406.6547 | 0.0396 | 0.0000 | 1,407.4858 |

3.4 Building Construction - 2033**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 | 0.0437 | 0.2653 | 0.5404 | 1.0300e-003 | | 4.9400e-003 | 4.9400e-003 | | 4.9400e-003 | 4.9400e-003 | 0.0000 | 87.6720 | 87.6720 | 3.5200e-003 | 0.0000 | 87.7459 |
| Total | 0.0437 | 0.2653 | 0.5404 | 1.0300e-003 | | 4.9400e-003 | 4.9400e-003 | | 4.9400e-003 | 4.9400e-003 | 0.0000 | 87.6720 | 87.6720 | 3.5200e-003 | 0.0000 | 87.7459 |

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 | 0.0454 | 0.2724 | 0.7692 | 1.5600e-003 | 0.0454 | 7.6000e-003 | 0.0530 | 0.0129 | 6.9900e-003 | 0.0199 | 0.0000 | 132.1059 | 132.1059 | 8.6000e-004 | 0.0000 | 132.1241 |
| Worker | 0.0536 | 0.0722 | 0.8463 | 4.0100e-003 | 0.3274 | 2.5200e-003 | 0.3299 | 0.0870 | 2.3300e-003 | 0.0893 | 0.0000 | 227.1289 | 227.1289 | 9.1700e-003 | 0.0000 | 227.3216 |
| Total | 0.0990 | 0.3446 | 1.6155 | 5.5700e-003 | 0.3728 | 0.0101 | 0.3829 | 0.0999 | 9.3200e-003 | 0.1092 | 0.0000 | 359.2348 | 359.2348 | 0.0100 | 0.0000 | 359.4456 |

3.4 Building Construction - 2033

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 | 0.0437 | 0.2653 | 0.5404 | 1.0300e-003 | | 4.9400e-003 | 4.9400e-003 | | 4.9400e-003 | 4.9400e-003 | 0.0000 | 87.6719 | 87.6719 | 3.5200e-003 | 0.0000 | 87.7458 |
| Total | 0.0437 | 0.2653 | 0.5404 | 1.0300e-003 | | 4.9400e-003 | 4.9400e-003 | | 4.9400e-003 | 4.9400e-003 | 0.0000 | 87.6719 | 87.6719 | 3.5200e-003 | 0.0000 | 87.7458 |

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 | 0.0454 | 0.2724 | 0.7692 | 1.5600e-003 | 0.0454 | 7.6000e-003 | 0.0530 | 0.0129 | 6.9900e-003 | 0.0199 | 0.0000 | 132.1059 | 132.1059 | 8.6000e-004 | 0.0000 | 132.1241 |
| Worker | 0.0536 | 0.0722 | 0.8463 | 4.0100e-003 | 0.3274 | 2.5200e-003 | 0.3299 | 0.0870 | 2.3300e-003 | 0.0893 | 0.0000 | 227.1289 | 227.1289 | 9.1700e-003 | 0.0000 | 227.3216 |
| Total | 0.0990 | 0.3446 | 1.6155 | 5.5700e-003 | 0.3728 | 0.0101 | 0.3829 | 0.0999 | 9.3200e-003 | 0.1092 | 0.0000 | 359.2348 | 359.2348 | 0.0100 | 0.0000 | 359.4456 |

3.5 Paving - 2033

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 | 0.1308 | 0.6736 | 1.4976 | 2.6500e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | 0.0000 | 227.6115 | 227.6115 | 0.0107 | 0.0000 | 227.8355 |
| Paving | 2.7100e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.1335 | 0.6736 | 1.4976 | 2.6500e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | 0.0000 | 227.6115 | 227.6115 | 0.0107 | 0.0000 | 227.8355 |

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 | 1.9500e-003 | 2.6300e-003 | 0.0308 | 1.5000e-004 | 0.0119 | 9.0000e-005 | 0.0120 | 3.1600e-003 | 8.0000e-005 | 3.2500e-003 | 0.0000 | 8.2609 | 8.2609 | 3.3000e-004 | 0.0000 | 8.2680 |
| Total | 1.9500e-003 | 2.6300e-003 | 0.0308 | 1.5000e-004 | 0.0119 | 9.0000e-005 | 0.0120 | 3.1600e-003 | 8.0000e-005 | 3.2500e-003 | 0.0000 | 8.2609 | 8.2609 | 3.3000e-004 | 0.0000 | 8.2680 |

3.5 Paving - 2033

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 | 0.1308 | 0.6736 | 1.4976 | 2.6500e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | 0.0000 | 227.6112 | 227.6112 | 0.0107 | 0.0000 | 227.8353 |
| Paving | 2.7100e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.1335 | 0.6736 | 1.4976 | 2.6500e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | 0.0000 | 227.6112 | 227.6112 | 0.0107 | 0.0000 | 227.8353 |

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 | 1.9500e-003 | 2.6300e-003 | 0.0308 | 1.5000e-004 | 0.0119 | 9.0000e-005 | 0.0120 | 3.1600e-003 | 8.0000e-005 | 3.2500e-003 | 0.0000 | 8.2609 | 8.2609 | 3.3000e-004 | 0.0000 | 8.2680 |
| Total | 1.9500e-003 | 2.6300e-003 | 0.0308 | 1.5000e-004 | 0.0119 | 9.0000e-005 | 0.0120 | 3.1600e-003 | 8.0000e-005 | 3.2500e-003 | 0.0000 | 8.2609 | 8.2609 | 3.3000e-004 | 0.0000 | 8.2680 |

3.5 Paving - 2034

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 | 0.0305 | 0.1571 | 0.3492 | 6.2000e-004 | | 7.2800e-003 | 7.2800e-003 | | 7.2800e-003 | 7.2800e-003 | 0.0000 | 53.0700 | 53.0700 | 2.4900e-003 | 0.0000 | 53.1223 |
| Paving | 6.3000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0311 | 0.1571 | 0.3492 | 6.2000e-004 | | 7.2800e-003 | 7.2800e-003 | | 7.2800e-003 | 7.2800e-003 | 0.0000 | 53.0700 | 53.0700 | 2.4900e-003 | 0.0000 | 53.1223 |

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 | 4.5000e-004 | 6.0000e-004 | 7.0800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 1.9218 | 1.9218 | 8.0000e-005 | 0.0000 | 1.9234 |
| Total | 4.5000e-004 | 6.0000e-004 | 7.0800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 1.9218 | 1.9218 | 8.0000e-005 | 0.0000 | 1.9234 |

3.5 Paving - 2034

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 | 0.0305 | 0.1571 | 0.3492 | 6.2000e-004 | | 7.2800e-003 | 7.2800e-003 | | 7.2800e-003 | 7.2800e-003 | 0.0000 | 53.0700 | 53.0700 | 2.4900e-003 | 0.0000 | 53.1222 |
| Paving | 6.3000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0311 | 0.1571 | 0.3492 | 6.2000e-004 | | 7.2800e-003 | 7.2800e-003 | | 7.2800e-003 | 7.2800e-003 | 0.0000 | 53.0700 | 53.0700 | 2.4900e-003 | 0.0000 | 53.1222 |

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 | 4.5000e-004 | 6.0000e-004 | 7.0800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 1.9218 | 1.9218 | 8.0000e-005 | 0.0000 | 1.9234 |
| Total | 4.5000e-004 | 6.0000e-004 | 7.0800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 1.9218 | 1.9218 | 8.0000e-005 | 0.0000 | 1.9234 |

3.6 Architectural Coating - 2034

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 | 4.2638 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0141 | 0.0921 | 0.1933 | 3.2000e-004 | | 2.1800e-003 | 2.1800e-003 | | 2.1800e-003 | 2.1800e-003 | 0.0000 | 27.4475 | 27.4475 | 1.1100e-003 | 0.0000 | 27.4708 |
| Total | 4.2779 | 0.0921 | 0.1933 | 3.2000e-004 | | 2.1800e-003 | 2.1800e-003 | | 2.1800e-003 | 2.1800e-003 | 0.0000 | 27.4475 | 27.4475 | 1.1100e-003 | 0.0000 | 27.4708 |

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 | 0.0337 | 0.0457 | 0.5371 | 2.5800e-003 | 0.2105 | 1.6200e-003 | 0.2121 | 0.0559 | 1.5000e-003 | 0.0574 | 0.0000 | 145.6881 | 145.6881 | 5.8500e-003 | 0.0000 | 145.8109 |
| Total | 0.0337 | 0.0457 | 0.5371 | 2.5800e-003 | 0.2105 | 1.6200e-003 | 0.2121 | 0.0559 | 1.5000e-003 | 0.0574 | 0.0000 | 145.6881 | 145.6881 | 5.8500e-003 | 0.0000 | 145.8109 |

3.6 Architectural Coating - 2034

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 | 4.2638 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0141 | 0.0921 | 0.1933 | 3.2000e-004 | | 2.1800e-003 | 2.1800e-003 | | 2.1800e-003 | 2.1800e-003 | 0.0000 | 27.4475 | 27.4475 | 1.1100e-003 | 0.0000 | 27.4708 |
| Total | 4.2779 | 0.0921 | 0.1933 | 3.2000e-004 | | 2.1800e-003 | 2.1800e-003 | | 2.1800e-003 | 2.1800e-003 | 0.0000 | 27.4475 | 27.4475 | 1.1100e-003 | 0.0000 | 27.4708 |

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 | 0.0337 | 0.0457 | 0.5371 | 2.5800e-003 | 0.2105 | 1.6200e-003 | 0.2121 | 0.0559 | 1.5000e-003 | 0.0574 | 0.0000 | 145.6881 | 145.6881 | 5.8500e-003 | 0.0000 | 145.8109 |
| Total | 0.0337 | 0.0457 | 0.5371 | 2.5800e-003 | 0.2105 | 1.6200e-003 | 0.2121 | 0.0559 | 1.5000e-003 | 0.0574 | 0.0000 | 145.6881 | 145.6881 | 5.8500e-003 | 0.0000 | 145.8109 |

3.6 Architectural Coating - 2035

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.4561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.3600e-003 | 8.7100e-003 | 0.0206 | 3.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 2.9362 | 2.9362 | 1.1000e-004 | 0.0000 | 2.9385 |
| Total | 0.4575 | 8.7100e-003 | 0.0206 | 3.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 2.9362 | 2.9362 | 1.1000e-004 | 0.0000 | 2.9385 |

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 | 3.5400e-003 | 4.8400e-003 | 0.0568 | 2.8000e-004 | 0.0225 | 1.7000e-004 | 0.0227 | 5.9800e-003 | 1.6000e-004 | 6.1400e-003 | 0.0000 | 15.5566 | 15.5566 | 6.2000e-004 | 0.0000 | 15.5696 |
| Total | 3.5400e-003 | 4.8400e-003 | 0.0568 | 2.8000e-004 | 0.0225 | 1.7000e-004 | 0.0227 | 5.9800e-003 | 1.6000e-004 | 6.1400e-003 | 0.0000 | 15.5566 | 15.5566 | 6.2000e-004 | 0.0000 | 15.5696 |

3.6 Architectural Coating - 2035

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.4561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.3600e-003 | 8.7100e-003 | 0.0206 | 3.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 2.9362 | 2.9362 | 1.1000e-004 | 0.0000 | 2.9385 |
| Total | 0.4575 | 8.7100e-003 | 0.0206 | 3.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 2.9362 | 2.9362 | 1.1000e-004 | 0.0000 | 2.9385 |

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 | 3.5400e-003 | 4.8400e-003 | 0.0568 | 2.8000e-004 | 0.0225 | 1.7000e-004 | 0.0227 | 5.9800e-003 | 1.6000e-004 | 6.1400e-003 | 0.0000 | 15.5566 | 15.5566 | 6.2000e-004 | 0.0000 | 15.5696 |
| Total | 3.5400e-003 | 4.8400e-003 | 0.0568 | 2.8000e-004 | 0.0225 | 1.7000e-004 | 0.0227 | 5.9800e-003 | 1.6000e-004 | 6.1400e-003 | 0.0000 | 15.5566 | 15.5566 | 6.2000e-004 | 0.0000 | 15.5696 |

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 | 65.3197 | 328.4041 | 464.8451 | 2.2479 | 19.8342 | 13.1851 | 33.0193 | 5.9568 | 13.1851 | 19.1420 | 0.0000 | 43,846.8133 | 43,846.8133 | 3.2934 | 0.0000 | 43,915.9745 |
| Unmitigated | 65.3197 | 328.4041 | 464.8451 | 2.2479 | 19.8342 | 13.1851 | 33.0193 | 5.9568 | 13.1851 | 19.1420 | 0.0000 | 43,846.8133 | 43,846.8133 | 3.2934 | 0.0000 | 43,915.9745 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|--------------------------|-------------------------|------------------|------------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 7,097.10 | 7,097.10 | 7,097.10 | 15,875,652 | 15,875,652 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Regional Shopping Center | 30,848.00 | 30,848.00 | 30,848.00 | 40,855,689 | 40,855,689 |
| Total | 37,945.10 | 37,945.10 | 37,945.10 | 56,731,341 | 56,731,341 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 11.00 | 3.50 | 4.50 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 12.50 | 4.20 | 5.40 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Regional Shopping Center | 12.50 | 4.20 | 5.40 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.421379 | 0.080221 | 0.186157 | 0.102399 | 0.020362 | 0.007146 | 0.013385 | 0.157035 | 0.000987 | 0.000668 | 0.006567 | 0.000965 | 0.002729 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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 | 10,028.6584 | 10,028.6584 | 0.2288 | 0.0474 | 10,048.1412 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 10,113.4370 | 10,113.4370 | 0.2308 | 0.0478 | 10,133.0845 |
| NaturalGas Mitigated | 0.1010 | 0.8687 | 0.4074 | 5.5100e-003 | | 0.0698 | 0.0698 | | 0.0698 | 0.0698 | 0.0000 | 999.7339 | 999.7339 | 0.0192 | 0.0183 | 1,005.8181 |
| NaturalGas Unmitigated | 0.1010 | 0.8687 | 0.4074 | 5.5100e-003 | | 0.0698 | 0.0698 | | 0.0698 | 0.0698 | 0.0000 | 999.7339 | 999.7339 | 0.0192 | 0.0183 | 1,005.8181 |

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 |
| Regional Shopping Center | 1.856e+006 | 0.0100 | 0.0910 | 0.0764 | 5.5000e-004 | | 6.9100e-003 | 6.9100e-003 | | 6.9100e-003 | 6.9100e-003 | 0.0000 | 99.0432 | 99.0432 | 1.9000e-003 | 1.8200e-003 | 99.6460 |
| Apartments Low Rise | 1.68783e+007 | 0.0910 | 0.7777 | 0.3310 | 4.9600e-003 | | 0.0629 | 0.0629 | | 0.0629 | 0.0629 | 0.0000 | 900.6907 | 900.6907 | 0.0173 | 0.0165 | 906.1721 |
| Total | | 0.1010 | 0.8687 | 0.4074 | 5.5100e-003 | | 0.0698 | 0.0698 | | 0.0698 | 0.0698 | 0.0000 | 999.7339 | 999.7339 | 0.0192 | 0.0183 | 1,005.8181 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Regional Shopping Center | 1.856e+006 | 0.0100 | 0.0910 | 0.0764 | 5.5000e-004 | | 6.9100e-003 | 6.9100e-003 | | 6.9100e-003 | 6.9100e-003 | 0.0000 | 99.0432 | 99.0432 | 1.9000e-003 | 1.8200e-003 | 99.6460 |
| Apartments Low Rise | 1.68783e+007 | 0.0910 | 0.7777 | 0.3310 | 4.9600e-003 | | 0.0629 | 0.0629 | | 0.0629 | 0.0629 | 0.0000 | 900.6907 | 900.6907 | 0.0173 | 0.0165 | 906.1721 |
| 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 |
| Total | | 0.1010 | 0.8687 | 0.4074 | 5.5100e-003 | | 0.0698 | 0.0698 | | 0.0698 | 0.0698 | 0.0000 | 999.7339 | 999.7339 | 0.0192 | 0.0183 | 1,005.8181 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-----------------|--------------------|---------------|---------------|--------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Low Rise | 5.01572e+006 | 2,891.4140 | 0.0660 | 0.0137 | 2,897.0312 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 1.2528e+007 | 7,222.0230 | 0.1648 | 0.0341 | 7,236.0533 |
| Total | | 10,113.4370 | 0.2308 | 0.0478 | 10,133.0846 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-----------------|--------------------|---------------|---------------|--------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Low Rise | 4.86865e+006 | 2,806.6354 | 0.0640 | 0.0133 | 2,812.0879 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 1.2528e+007 | 7,222.0230 | 0.1648 | 0.0341 | 7,236.0533 |
| Total | | 10,028.6584 | 0.2288 | 0.0474 | 10,048.1412 |

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 | 11.0867 | 0.1441 | 10.6062 | 4.8000e-004 | | 0.1056 | 0.1056 | | 0.1050 | 0.1050 | 0.0000 | 886.8611 | 886.8611 | 0.0407 | 0.0160 | 892.6706 |
| Unmitigated | 11.0867 | 0.1441 | 10.6062 | 4.8000e-004 | | 0.1056 | 0.1056 | | 0.1050 | 0.1050 | 0.0000 | 886.8611 | 886.8611 | 0.0407 | 0.0160 | 892.6706 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 2.1772 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 8.3620 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0881 | 0.0000 | 4.8100e-003 | 0.0000 | | 0.0609 | 0.0609 | | 0.0602 | 0.0602 | 0.0000 | 871.9283 | 871.9283 | 0.0167 | 0.0160 | 877.2348 |
| Landscaping | 0.4595 | 0.1441 | 10.6014 | 4.8000e-004 | | 0.0448 | 0.0448 | | 0.0448 | 0.0448 | 0.0000 | 14.9328 | 14.9328 | 0.0240 | 0.0000 | 15.4359 |
| Total | 11.0867 | 0.1441 | 10.6062 | 4.8000e-004 | | 0.1056 | 0.1056 | | 0.1050 | 0.1050 | 0.0000 | 886.8611 | 886.8611 | 0.0407 | 0.0160 | 892.6706 |

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 | 2.1772 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 8.3620 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0881 | 0.0000 | 4.8100e-003 | 0.0000 | | 0.0609 | 0.0609 | | 0.0602 | 0.0602 | 0.0000 | 871.9283 | 871.9283 | 0.0167 | 0.0160 | 877.2348 |
| Landscaping | 0.4595 | 0.1441 | 10.6014 | 4.8000e-004 | | 0.0448 | 0.0448 | | 0.0448 | 0.0448 | 0.0000 | 14.9328 | 14.9328 | 0.0240 | 0.0000 | 15.4359 |
| Total | 11.0867 | 0.1441 | 10.6062 | 4.8000e-004 | | 0.1056 | 0.1056 | | 0.1050 | 0.1050 | 0.0000 | 886.8611 | 886.8611 | 0.0407 | 0.0160 | 892.6706 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|--------|--------|------------|
| Category | MT/yr | | | |
| Mitigated | 1,646.7609 | 4.5780 | 0.1147 | 1,778.4396 |
| Unmitigated | 1,646.7609 | 4.5788 | 0.1148 | 1,778.5102 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------------|-------------------|---------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 80.1395 / 50.5227 | 950.5462 | 2.6325 | 0.0660 | 1,026.2961 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 59.258 / 36.3194 | 696.2147 | 1.9464 | 0.0488 | 752.2140 |
| Total | | 1,646.7609 | 4.5788 | 0.1148 | 1,778.5102 |

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------------|-------------------|---------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 80.1395 / 50.5227 | 950.5462 | 2.6320 | 0.0659 | 1,026.2556 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 59.258 / 36.3194 | 696.2147 | 1.9460 | 0.0487 | 752.1840 |
| Total | | 1,646.7609 | 4.5780 | 0.1147 | 1,778.4396 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 285.3647 | 16.8646 | 0.0000 | 639.5207 |
| Unmitigated | 285.3647 | 16.8646 | 0.0000 | 639.5207 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Low Rise | 565.8 | 114.8523 | 6.7876 | 0.0000 | 257.3914 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 840 | 170.5124 | 10.0770 | 0.0000 | 382.1293 |
| Total | | 285.3647 | 16.8646 | 0.0000 | 639.5207 |

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Low Rise | 565.8 | 114.8523 | 6.7876 | 0.0000 | 257.3914 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 840 | 170.5124 | 10.0770 | 0.0000 | 382.1293 |
| Total | | 285.3647 | 16.8646 | 0.0000 | 639.5207 |

9.0 Operational Offroad

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

10.0 Vegetation



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