Balboa Avenue Station Area Specific Plan Project

GREENHOUSE GAS EMISSIONS TECHNICAL REPORT

March 2018 | RDG-01.10

Prepared for:

RRM Design Group
3765 S. Higuera Street, Suite 102
San Luis Obispo, CA 93401

Prepared by:

HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942

Balboa Avenue Station Area Specific Plan

Greenhouse Gas Emissions Technical Report

Prepared for:

RRM Design Group
3765 S. Higuera Street, Suite 102
San Luis Obispo, CA 93401

Prepared by:

HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942

March 2018| RDG-01.10

TABLE OF CONTENTS

Section **Page**

TABLE OF CONTENTS

LIST OF APPENDICES

LIST OF FIGURES

TABLE OF CONTENTS (cont.)

LIST OF TABLES

ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
BASASP	Balboa Avenue Station Area Specific Plan
CAA	Clean Air Act
CAFE	Corporate Average Fuel Economy
CalEEMod	California Emission Estimator Model
CALGreen	California Green Building Standards Code
CalRecycle	California Department of Resources Recycling and Recovery
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBSC	California Building Standards Commission
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CEUS	California Commercial End Use Survey
CFCs	chlorofluorocarbons
CH_4	methane
CO_2	carbon dioxide
CO_2e	CO_2-equivalent
EO	Executive Order
EPIC	University of San Diego School of Law, Energy Policy Initiative Center
ºF	Fahrenheit (degrees)
GHG	greenhouse gas
GWP	Global Warming Potential
HFCs	hydrofluorocarbons
HVAC	heating, ventilation, and air conditioning
IPCC	United Nations Intergovernmental Panel on Climate Change
LCFS	Low Carbon Fuel Standard
MMT	million metric tons
mpg	miles per gallon
MPOs	Metropolitan Planning Organizations
MT	metric tons
N_2O	nitrous oxide
NASA	National Aeronautics and Space Administration
NHTSA	National Highway Traffic Safety Administration

ACRONYMS AND ABBREVIATIONS (cont.)

NOAA	National Oceanic and Atmospheric Administration
NO_X	nitrogen oxides
PFCs	perfluorocarbons
ppm	parts per million
RASS	Residential Appliance Saturation Survey
RCP	Regional Comprehensive Plan
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SANDAG	San Diego Association of Governments
SB	Senate Bill
SCS	Sustainable Communities Strategy
SDG&E	San Diego Gas and Electric
SF	square feet
SF_6	sulfur hexaflouride
USEPA	U.S. Environmental Protection Agency
VMT	vehicle miles traveled
VOC	volatile organic compound

THIS PAGE INTENTIONALLY LEFT BLANK

EXECUTIVE SUMMARY

The Balboa Avenue Station Area Specific Plan (BASASP) is within the Pacific Beach and Clairemont Mesa communities of the City of San Diego (City). The BASASP is intended to provide a policy framework to guide public and private transit-oriented development, and multi-modal improvements adjacent to the Balboa Avenue Station consistent with the City General Plan "City of Villages" planning strategy. This report presents an assessment of potential construction and operational greenhouse gas (GHG) emission impacts associated with the BASASP.

For the purposes of determining the increase in GHG emissions associated with the BASASP, an inventory was developed based on the land use designations associated with the adopted Pacific beach and Clairemont Mesa Community Plans (herein referred to as Community Plans) using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. Emissions from the proposed BASASP were then compared with those associated with the adopted Community Plans. Emissions associated with buildout of the adopted Community Plans were estimated to be 107,193 metric tons (MT) of carbon dioxide equivalent (CO_2e) per year. Using CalEEMod, the BASASP emissions would total 135,820 MT CO_2e. This represents an increase of 28,627 MT CO_2e per year when compared to the inventory prepared for the adopted Community Plans. The increase in emissions occurs because BASASP would include an additional 3,593 multi-family dwelling units and 256,169 SF of arterial commercial over the adopted Community Plans. This is because the. The majority of the new multi-family dwelling units and arterial commercial uses is planned within a 0.5-mile radius of the Balboa Avenue Station, which is a designated Transit Priority Area (TPA). Although the BASASP would increase aggregated GHG emissions over those of the adopted Community Plans at buildout (year 2035), this increase in GHG is a direct result of the implementation of the City's Climate Action Plan Strategies and the General Plan's City of Villages Strategy. Increasing residential and commercial density in transit corridors and Community Villages within a TPA would support the City of San Diego in achieving the GHG emissions reduction targets of the CAP, and thus, impacts associated with GHG emissions would be less than significant.

With regard to the BASASP's consistency with local and state plans and policies aimed at reducing GHG emissions, the proposed BASASP would develop compact, walkable communities close to transit connections and consistent with smart growth principles. The BASASP supports the multi-modal strategy of the SANDAG Regional Plan through improvements to increase bicycle, pedestrian, and transit access to the Balboa Avenue Trolley Station. Policies contained within the proposed BASASP Land Use and Mobility Elements would serve to promote bus transit use as well as other forms of mobility, including walking and bicycling. The proposed BASASP incorporates goals and policies intended to support the General Plan and CAP policies and thus, impacts associated with GHG emissions would be less than significant.

THIS PAGE INTENTIONALLY LEFT BLANK

1.0 INTRODUCTION

1.1 PURPOSE OF THE REPORT

This report analyzes potential greenhouse gas (GHG) emission impacts associated with the Balboa Avenue Station Area Specific Plan (BASASP). The report includes an evaluation of existing conditions in the Specific Plan vicinity and an evaluation of operational impacts. The analysis follows the guidelines within the City of San Diego's (City) *California Environmental Quality Act* (CEQA) *Significance Determination Thresholds* (City 2016).

1.2 PROJECT LOCATION

The BASASP area is approximately 0.70 square miles (210 acres) and is located in the Pacific Beach and Clairemont Mesa communities of the City, just north of Mission Bay Park (see Figure 1, *Regional Location Map* and Figure 2, *Project Vicinity*). Rose Creek borders the western edge of the BASASP area and provides an open space connection within the area. Interstate-5 (I-5) runs north-south through the middle of the BASASP area and is the boundary between the Pacific Beach community on the west and the Clairemont Mesa community on the east. Mission Bay Park is situated immediately south of the BASASP area.

1.3 PROJECT DESCRIPTION

The BASASP involves the preparation of a Specific Plan that would amend the Pacific Beach Community Plan/Local Coastal Plan to re-designate and rezone lands within the BASASP area. The BASASP would also provide recommendations and guidelines for the public right-of-way that would emphasize access to the Balboa Avenue Station and capitalize on the new regional transit connection in the BASASP area.

The BASASP provides a policy framework to guide public and private transit-oriented development and multi-modal improvements adjacent to the Balboa Avenue Station consistent with the City General Plan "City of Villages" planning strategy. The Balboa Avenue Station will be a part of the San Diego Metropolitan Transit System's (MTS) light rail transit (LRT) Trolley system. MTS is currently constructing the Mid-Coast Corridor project, an expansion of the Trolley's existing Blue Line from downtown San Diego to the University City community, which traverses the BASASP area. Service is anticipated to begin in 2021.

The BASASP is divided into Land Use, Mobility, Urban Design, Recreation, Infrastructure and Public Utilities, Conservation, and Implementation chapters.

The **Land Use Chapter** is designed to guide future development within the community. It establishes land use designations for each portion of the community (see Figure 3, *Land Use Plan*). The BASASP proposes residential, community village, light industrial, institutional, and flood control/open space uses. Residential uses would be allowed within community village and residential land use designations. Up to 4,729 multi-family residential units would be allowed under the BASASP.

The **Mobility Chapter** is intended to improve mobility throughout the community through: the promotion of a complete streets network that capitalizes on access to transit, provide a walkable and pedestrian-friendly environment, and identifies traffic calming, bicycle facilities, and parking improvements.

The **Urban Design Chapter** establishes policies to enhance public plazas and roadways to create a pedestrian-oriented development pattern through building designs and streetscapes. The plan would aim to maintain and enhance the overall and individual character of the community.

The **Recreation Chapter** is intended to assure that the recreational needs of the community are met with a particular focus on enhancing and creating connections to Mission Bay Park and Rose Creek.

The **Infrastructure and Public Utilities Chapter** describes existing facilities and services, including: water, wastewater, storm water, solid waste, communications/energy services, schools, police and fire/emergency services and libraries.

The **Conservation Chapter** contains policies addressing sustainable development, urban runoff management, and air quality. The concepts of conservation and sustainability address the relationship of the built environment to the natural environment with the objective of achieving environmental benefits through energy and resource conversation.

The **Implementation Chapter** includes discussion of the administration, review process, and amendment process of the BASASP.

1.4 REGULATORY REQUIREMENTS APPLICABLE TO NEW BUILDING CONSTRUCTION

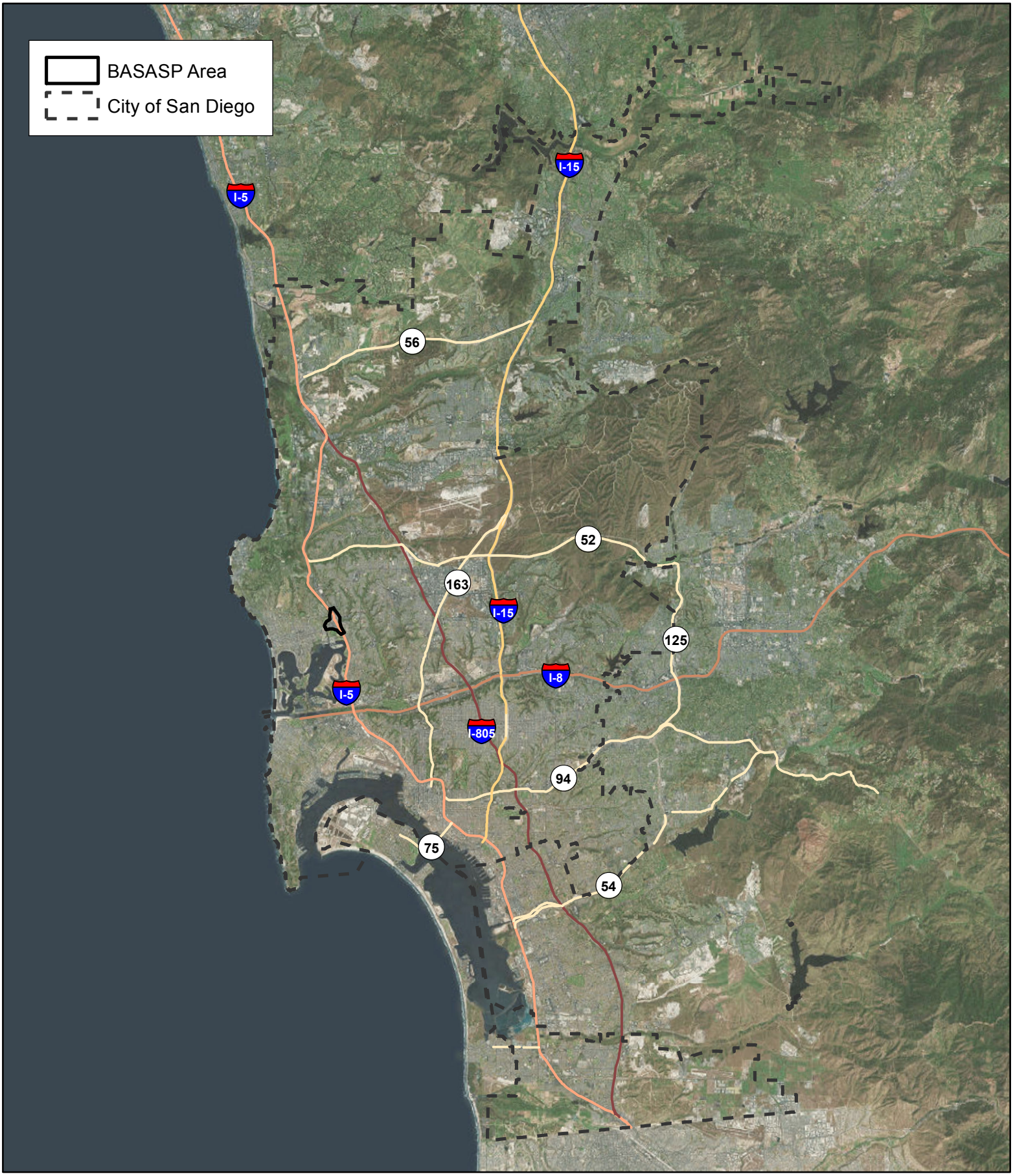
1.4.1 Energy Efficiencies

New development under the Specific Plan would be designed to meet current 2016 Title 24 energy efficiency standards. In accordance with the requirements of Title 24, new development under the Specific Plan would:

- Install enhanced ceiling, attic, and wall insulation,
- Install high efficiency window glazing,
- Have the installation of all heating, ventilation, and air conditioning (HVAC) units verified by a third party, and
- Include roof anchors and pre-wiring to allow for the installation of photovoltaic systems.

1.4.2 Water Conservation

In accordance with 2016 California Green Building Standards Code (CALGreen) mandatory measures new development under the Specific Plan would:



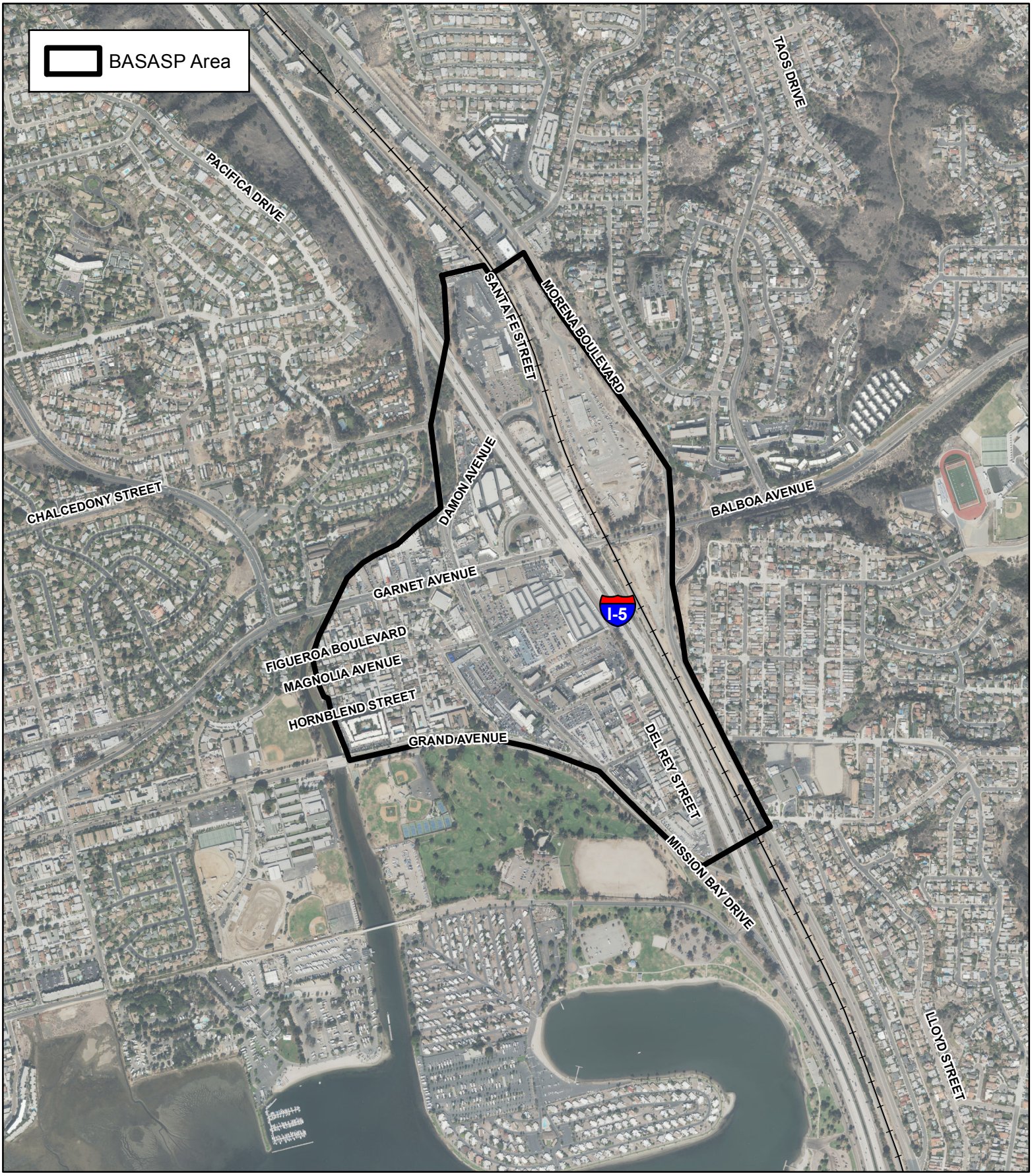
Balboa Avenue Station Area Specific Plan

0 5 10 Miles

N

Figure 1

Regional Location Map



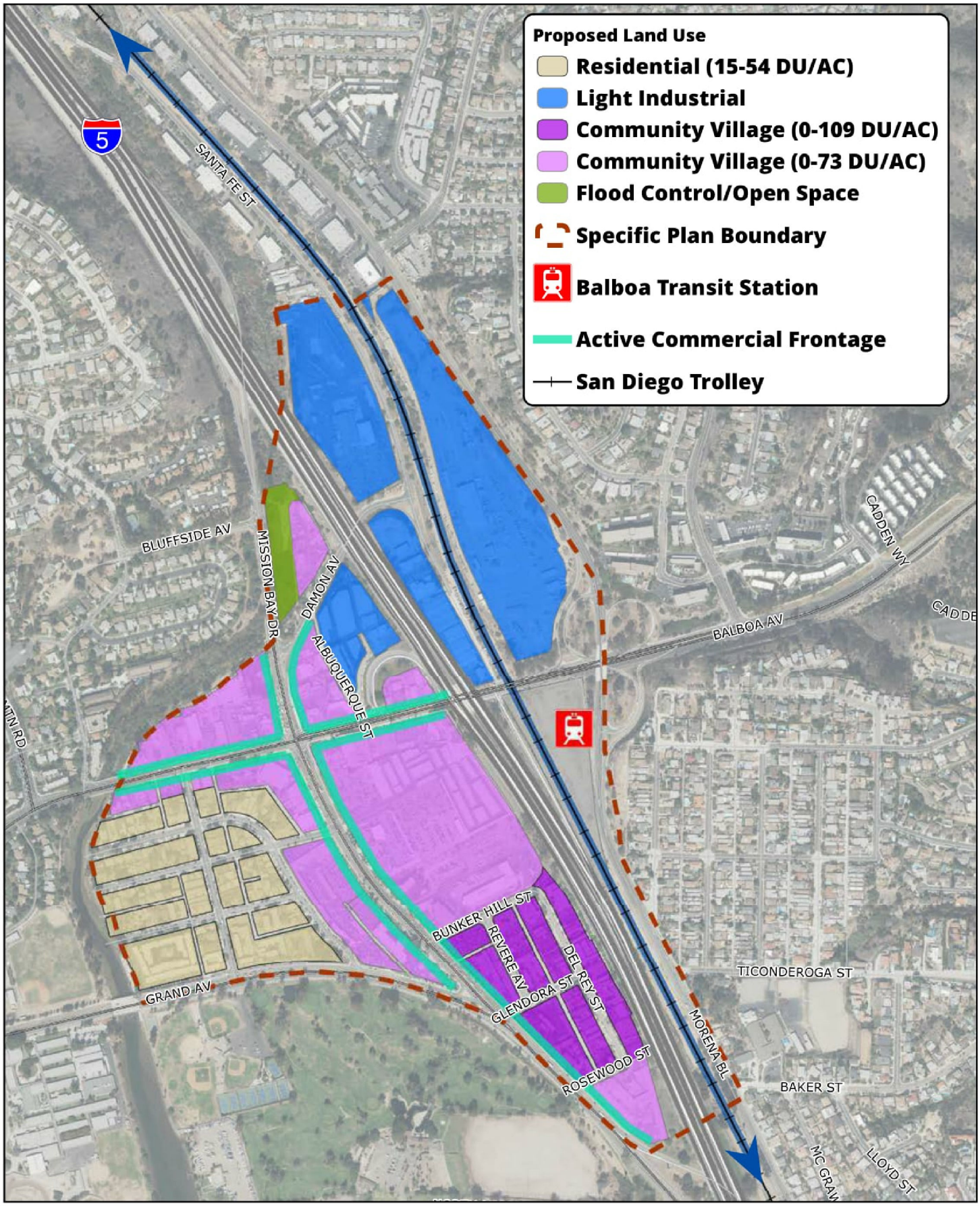
Balboa Avenue Station Area Specific Plan

0 0.25 0.5 Miles

N

Figure 2

Project Vicinity (Aerial Photograph)



Balboa Avenue Station Area Specific Plan

0 1,000 2,000 Feet

N

Figure 3

Proposed Land Use Plan

- Reduce potable water use by 20 percent,
- Install low-flow water fixtures,
- Reduce wastewater generation by 20 percent,
- Install low-flow bathroom fixtures, and
- Install weather-based smart irrigation control systems.

1.4.3 Solid Waste Reduction

- In accordance with Assembly Bill (AB) 341, at least 75 percent of operational waste would be diverted from landfills through reuse and recycling.
- Provide areas for storage and collection of recyclables and yard waste in accordance with 2016 CALGreen.

2.0 ENVIRONMENTAL SETTING

2.1 CLIMATE CHANGE OVERVIEW

Global climate change refers to changes in average climatic conditions on Earth as a whole, including temperature, wind patterns, precipitation, and storms. Historical records show that global temperature changes have occurred naturally in the past, such as during previous ice ages. To measure climate change, scientists look at long-term trends. The temperature trend, including data through 2010, shows the climate has warmed by approximately 0.36 degrees Fahrenheit (ºF) per decade since the late 1970s (National Aeronautics and Space Administration [NASA] 2011).

Global temperatures are moderated by naturally occurring atmospheric gases. These gases are commonly referred to as GHGs because they function like a greenhouse by letting light in but preventing heat from escaping. These gases allow solar radiation (sunlight) into the Earth's atmosphere, but prevent radiative heat from escaping, thus warming the Earth's atmosphere. The resulting balance between incoming solar radiation and outgoing radiation from both the Earth's surface and the atmosphere maintains the planet's habitability. The Earth's surface temperature averages about 58ºF because of the greenhouse effect. Without it, the Earth's average surface temperature would be somewhere around an uninhabitable 0ºF.

GHGs are emitted by natural processes and human (anthropogenic) activities. Anthropogenic GHG emissions are primarily associated with (1) the burning of fossil fuels during motorized transport, electricity generation, natural gas consumption, industrial activity, manufacturing, and other activities; (2) deforestation; (3) agricultural activity; and (4) solid waste decomposition.

The United Nations Intergovernmental Panel on Climate Change (IPCC) constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. The statistical models show a "high confidence" that temperature increase caused by anthropogenic GHG emissions could be kept to less than two degrees Celsius relative to pre-industrial levels if atmospheric

concentrations are stabilized at about 450 parts per million (ppm) carbon dioxide equivalent (CO_2e) by the year 2100 (IPCC 2014).

2.2 GREENHOUSE GASES

The GHGs, as defined under California's AB 32, include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). Although water vapor is the most abundant and variable GHG in the atmosphere, it is not considered a pollutant; it maintains a climate necessary for life.

CO_2 is the most important and common anthropogenic GHG. CO_2 is an odorless, colorless GHG. Natural sources include the decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungi; evaporation from oceans; and volcanic outgassing. Anthropogenic sources of CO_2 include burning fuels, such as coal, oil, natural gas, and wood. Data from ice cores indicate that CO_2 concentrations remained steady prior to the current period for approximately 10,000 years. The atmospheric CO_2 concentration in 2010 was 390 ppm, 39 percent above the concentration at the start of the Industrial Revolution (about 280 ppm in 1750). As of September 2017, the CO_2 concentration exceeded 402 ppm (National Oceanic and Atmospheric Administration [NOAA] 2017).

CH_4 is a gas and is the main component of natural gas used in homes. A natural source of methane is from the decay of organic matter. Geological deposits known as natural gas fields contain methane, which is extracted for fuel. Other sources are from decay of organic material in landfills, fermentation of manure, and cattle digestion.

N_2O is produced by both natural and human-related sources. N_2O is emitted during agricultural and industrial activities, as well as during combustion of fossil fuels and solid waste. Primary human-related sources of N_2O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuel, adipic (fatty) acid production, and nitric acid production.

Fluorocarbons are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. Chlorofluorocarbons are nontoxic, nonflammable, insoluble, and chemically nonreactive in the troposphere (the level of air at Earth's surface). Chlorofluorocarbons were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. They destroy stratospheric ozone; therefore, their production was stopped as required by the Montreal Protocol.

SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semi-conductor manufacturing, and as a tracer gas for leak detection.

GHGs have long atmospheric lifetimes that range from one year to several thousand years. Long atmospheric lifetimes allow for GHGs to disperse around the globe. Because GHGs vary widely in the power of their climatic effects, climate scientists have established a unit called global warming potential (GWP). The GWP of a gas is a measure of both potency and lifespan in the atmosphere as compared to CO_2. For example, because methane and N_2O are approximately 25 and 298 times more powerful than CO_2, respectively, in their ability to trap heat in the atmosphere, they have GWPs of 25 and 298, respectively (CO_2 has a GWP of 1). CO_2e is a quantity that enables all GHG emissions to be considered as a group despite their varying GWP. The GWP of each GHG is multiplied by the prevalence of that gas to produce CO_2e. The atmospheric lifetime and GWP of selected GHGs are summarized in Table 1,

Global Warming Potentials and Atmospheric Lifetimes. As shown in the table, the GWP for common GHGs ranges from 1 (CO_2) to 22,800 (SF_6).

Table 1
GLOBAL WARMING POTENTIALS AND ATMOSPHERIC LIFETIMES

Greenhouse Gas	Atmospheric Lifetime (years)	Global Warming Potential (100-year time horizon)
Carbon Dioxide (CO_2)	50-200	1
Methane (CH_4)	12	25
Nitrous Oxide (N_2O)	114	298
HFC-324a	14	1,430
PFC: Tetrafluoromethane (CF_4)	50,000	7,390
PFC: Hexafluoroethane (C_2F_6)	10,000	12,200
Sulfur Hexafluoride (SF_6)	3,200	22,800

Source: IPCC 2007
HFC: hydrofluorocarbon; PFC: perfluorocarbon

2.3 REGULATORY FRAMEWORK

All levels of government have some responsibility for the protection of air quality, and each level (federal, state, and regional/local) has specific responsibilities relating to air quality regulation. GHG emissions and the regulation of GHGs is a relatively new component of air quality.

2.3.1 Federal

2.3.1.1 Federal Clean Air Act

The U.S. Supreme Court ruled on April 2, 2007, in *Massachusetts v. U.S. Environmental Protection Agency* (USEPA*)* that CO_2 is an air pollutant, as defined under the CAA, and that the USEPA has the authority to regulate emissions of GHGs. The USEPA announced that GHGs (including CO_2, CH_4, N_2O, HFC, PFC, and SF_6) threaten the public health and welfare of the American people. This action was a prerequisite to finalizing the USEPA's GHG emissions standards for light-duty vehicles, which were jointly proposed by the USEPA and the United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA). The standards were established on April 1, 2010 for 2012 through 2016 model year vehicles and on October 15, 2012 for 2017 through 2025 model year vehicles (USEPA 2017; USEPA and NHTSA 2012).

2.3.1.2 Light-Duty Vehicle Greenhouse Gas Emissions Standards and Corporate Average Fuel Economy Standards

The USEPA and the NHTSA have been working together on developing a national program of regulations to reduce GHG emissions and to improve fuel economy of light-duty vehicles. The USEPA is finalizing the first-ever national GHG emissions standards under the CAA, and the NHTSA is finalizing Corporate Average Fuel Economy (CAFE) standards under the Energy Policy and Conservation Act. On April 1, 2010, the USEPA and NHTSA announced a joint Final Rulemaking that established standards for 2012 through 2016 model year vehicles. This was followed up on October 15, 2012, when the agencies issued a Final Rulemaking with standards for model years 2017 through 2025. The rules require these vehicles to meet an estimated combined average emissions level of 250 grams per mile by 2016, decreasing to an

average industry fleet-wide level of 163 grams per mile in model year 2025. The 2016 standard is equivalent to 35.5 miles per gallon (mpg), and the 2025 standard is equivalent to 54.5 mpg if the levels were achieved solely through improvements in fuel efficiency. The agencies expect, however, that a portion of these improvements will be made through improvements in air conditioning leakage and the use of alternative refrigerants that would not contribute to fuel economy. These standards would cut GHG emissions by an estimated 2 billion metric tons (MT) and 4 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2017–2025). The combined USEPA GHG emission standards and NHTSA CAFE standards resolve previously conflicting requirements under both federal programs and the standards of the State of California and other states that have adopted the California standards (USEPA 2017; USEPA and NHTSA 2012).

2.3.2 California Greenhouse Gas Regulations

There are numerous State plans, policies, regulations, and laws related to GHG emissions and global climate change. Following is a discussion of some of these plans, policies, and regulations that (1) establish overall State policies and GHG emission reduction targets; (2) require State or local actions that result in direct or indirect GHG emission reductions for the proposed project; and (3) require California Environmental Quality Act (CEQA) analysis of GHG emissions.

2.3.2.1 California Energy Code

California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. Energy-efficient buildings require less electricity, natural gas, and other fuels. Electricity production from fossil fuels and on-site fuel combustion (typically for water heating) results in GHG emissions.

The Title 24 standards are updated approximately every three years to allow consideration and possible incorporation of new energy efficiency technologies and methods. The latest update to the Title 24 standards occurred in 2016 and went into effect on January 1, 2017. The 2016 update to the Building Energy Efficiency Standards focuses on several key areas to improve the energy efficiency of newly constructed buildings and additions and alterations to existing buildings. The most significant efficiency improvements to the residential standards include improvements for attics, walls, water heating, and lighting. The 2019 standards will continue to improve upon the 2016 standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The 2019 standards will go into effect on January 1, 2020.

The standards are divided into three basic sets. First, there is a basic set of mandatory requirements that apply to all buildings. Second, there is a set of performance standards – the energy budgets – that vary by climate zone (of which there are 16 in California) and building type; thus, the standards are tailored to local conditions. Finally, the third set constitutes an alternative to the performance standards, which is a set of prescriptive packages that are basically a recipe or a checklist compliance approach.

2.3.2.2 California Green Building Standards Code

The California Green Building Standards Code (CALGreen; CCR Title 24, Part 11) is a code with mandatory requirements for new residential and nonresidential buildings (including industrial buildings) throughout California. The code is Part 11 of the California Building Standards Code in Title 24 of the CCR

(CBSC 2017). The current 2016 Standards for new construction of, and additions and alterations to, residential and nonresidential buildings went into effect on January 1, 2017. The 2019 Standards will continue to improve upon the 2016 Standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The 2019 Standards will go into effect on January 1, 2020.

The development of CALGreen is intended to (1) cause a reduction in GHG emissions from buildings; (2) promote environmentally responsible, cost-effective, healthier places to live and work; (3) reduce energy and water consumption; and (4) respond to the directives by the Governor. In short, the code is established to reduce construction waste; make buildings more efficient in the use of materials and energy; and reduce environmental impact during and after construction.

CALGreen contains requirements for storm water control during construction; construction waste reduction; indoor water use reduction; material selection; natural resource conservation; site irrigation conservation; and more. The code provides for design options allowing the designer to determine how best to achieve compliance for a given site or building condition. The code also requires building commissioning, which is a process for the verification that all building systems, like heating and cooling equipment and lighting systems, are functioning at their maximum efficiency.

2.3.2.3 Executive Order S-3-05

On June 1, 2005, Executive Order (EO) S-3-05 proclaimed that California is vulnerable to climate change impacts. It declared that increased temperatures could reduce snowpack in the Sierra Nevada, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To avoid or reduce climate change impacts, EO S-3-05 calls for a reduction in GHG emissions to the year 2000 level by 2010, to year 1990 levels by 2020, and to 80 percent below 1990 levels by 2050.

2.3.2.4 Assembly Bill 32 – Global Warming Solution Act of 2006

The California Global Warming Solutions Act of 2006, widely known as AB 32, requires that the CARB develop and enforce regulations for the reporting and verification of statewide GHG emissions. CARB is directed to set a GHG emission limit, based on 1990 levels, to be achieved by 2020. The bill requires CARB to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG emission reductions.

2.3.2.5 Senate Bill 375

Senate Bill (SB) 375, the Sustainable Communities and Climate Protection Act of 2008, supports the State's climate action goals to reduce GHG emissions through coordinated transportation and land use planning with the goal of more sustainable communities.

Under the Sustainable Communities Act, CARB sets regional targets for GHG emissions reductions from passenger vehicle use. In 2010, CARB established these targets for 2020 and 2035 for each region covered by one of the State's metropolitan planning organizations (MPO). CARB periodically reviews and updates the targets, as needed.

Each of California's MPOs must prepare a Sustainable Communities Strategy (SCS) as an integral part of its regional transportation plan (RTP). The SCS contains land use, housing, and transportation strategies that, if implemented, would allow the region to meet its GHG emission reduction targets. Once adopted by the MPO, the RTP/SCS guides the transportation policies and investments for the region. CARB must

review the adopted SCS to confirm and accept the MPO's determination that the SCS, if implemented, would meet the regional GHG targets. If the combination of measures in the SCS would not meet the regional targets, the MPO must prepare a separate alternative planning strategy (APS) to meet the targets. The APS is not a part of the RTP. Qualified projects consistent with an approved SCS or Alternative Planning Strategy categorized as "transit priority projects" would receive incentives to streamline CEQA processing.

2.3.2.6 Senate Bill 743

On September 27, 2013, California Governor Jerry Brown signed SB 743 into law and started a process that changes transportation impact analysis as part of CEQA compliance. These changes include the elimination of auto delay, level of service (LOS), and other similar measures of vehicular capacity or traffic congestion as a basis for determining significant impacts for land use projects and plans in California. Further, parking impacts will not be considered significant impacts on the environment for select development projects within infill areas with nearby frequent transit service. According to the legislative intent contained in SB 743, these changes to current practice were necessary to more appropriately balance the needs of congestion management with statewide goals related to infill development, promotion of public health through active transportation, and reduction of GHG emissions.

2.3.2.7 Senate Bill 97

SB 97 required the Governor's Office of Planning and Research to develop recommended amendments to the State CEQA Guidelines for addressing GHG emissions, including the effects associated with transportation and energy consumption. The amendments became effective on March 18, 2010.

2.3.2.8 Executive Order B-30-15

On April 29, 2015, EO B-30-15 established a California GHG emission reduction target of 40 percent below 1990 levels by 2030. The EO aligns California's GHG emission reduction targets with those of leading international governments, including the 28 nation European Union. California is on track to meet or exceed the target of reducing greenhouse gas emissions to 1990 levels by 2020, as established in AB 32. California's new emission reduction target of 40 percent below 1990 levels by 2030 will make it possible to reach the goal established by EO S-3-05 of reducing emissions 80 percent under 1990 levels by 2050.

2.3.2.9 Senate Bill 32 and Assembly Bill 197

As a follow-up to AB 32 and in response to EO-B-30-15, SB 32 was passed by the California legislature in August 2016 to codify the EO's California GHG emission reduction target of 40 percent below 1990 levels by 2030 and requires the State to invest in the communities most affected by climate change. AB 197 establishes a legislative committee on climate change policies to help continue the State's activities to reduce GHG emissions.

2.3.2.10 Assembly Bill 1493 – Vehicular Emissions of Greenhouse Gases

AB 1493 (Pavley) requires that CARB develop and adopt regulations that achieve "the maximum feasible reduction of GHGs emitted by passenger vehicles and light-duty truck and other vehicles determined by

CARB to be vehicles whose primary use is noncommercial personal transportation in the State." On September 24, 2009, CARB adopted amendments to the Pavley regulations that intend to reduce GHG emissions in new passenger vehicles from 2009 through 2016. The amendments bind California's enforcement of AB 1493 (starting in 2009), while providing vehicle manufacturers with new compliance flexibility. The amendments also prepare California to merge its rules with the federal CAFE rules for passenger vehicles (CARB 2017a). In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single packet of standards called Advanced Clean Cars (CARB 2017a).

2.3.2.11 Assembly Bill 341

The state legislature enacted AB 341 (California Public Resource Code Section 42649.2), increasing the diversion target to 75 percent statewide. AB 341 requires all businesses and public entities that generate 4 CY or more of waste per week to have a recycling program in place. The final regulation was approved by the Office of Administrative Law on May 7, 2012 and went into effect on July 1, 2012.

2.3.2.12 Executive Order S-01-07 – Low Carbon Fuel Standard

This EO, signed by Governor Schwarzenegger on January 18, 2007, directs that a statewide goal be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by the year 2020. It orders that a Low Carbon Fuel Standard (LCFS) for transportation fuels be established for California and directs CARB to determine whether a LCFS can be adopted as a discrete early action measure pursuant to AB 32. CARB approved the LCFS as a discrete early action item with a regulation adopted and implemented in April 2010. Although challenged in 2011, the Ninth Circuit reversed the District Court's opinion and rejected arguments that implementing LCFS violates the interstate commerce clause in September 2013. CARB is therefore continuing to implement the LCFS statewide.

2.3.2.13 Senate Bill 350

Approved by Governor Brown on October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard eligible resources, including solar, wind, biomass, and geothermal. In addition, large utilities are required to develop and submit Integrated Resource Plans to detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions, and increase the use of clean energy.

2.3.2.14 California Air Resources Board: Climate Change Scoping Plan

On December 11, 2008, CARB adopted the Climate Change Scoping Plan (Scoping Plan [CARB 2008]) as directed by AB 32. The Scoping Plan proposes a set of actions designed to reduce overall GHG emissions in California to the levels required by AB 32. Measures applicable to development projects include those related to energy-efficiency building and appliance standards, the use of renewable sources for electricity generation, regional transportation targets, and green building strategy. Relative to transportation, the Scoping Plan includes nine measures or recommended actions related to reducing vehicle miles traveled (VMT) and vehicle GHG emissions through fuel and efficiency measures. These measures would be implemented statewide rather than on a project by project basis.

CARB released the First Update to the Climate Change Scoping Plan in May 2014 to provide information on the development of measure-specific regulations and to adjust projections in consideration of the economic recession (CARB 2014). To determine the amount of GHG emission reductions needed to achieve the goal of AB 32 (i.e., 1990 levels by 2020) CARB developed a forecast of the AB 32 Baseline 2020 emissions, which is an estimate of the emissions expected to occur in the year 2020 if none of the foreseeable measures included in the Scoping Plan were implemented. CARB estimated the AB 32 Baseline 2020 to be 509 million metric tons (MMT) of CO_2e. The Scoping Plan's current estimate of the necessary GHG emission reductions is 78 MMT CO_2e (CARB 2014). This represents an approximately 15 percent reduction. CARB is forecasting that this would be achieved through the following reductions by sector: 25 MMT CO_2e for energy, 23 MMT CO_2e for transportation, 5 MMT CO_2e for high-GWP GHGs, and 2 MMT CO_2e for waste. The remaining 23 MMT CO_2e would be achieved through Cap-and-Trade Program reductions. This reduction is flexible—if CARB receives new information and changes the other sectors' reductions to be less than expected, the agency can increase the Cap-and-Trade reduction (and vice versa).

In response to EO B-30-15 and SB 32, all state agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. CARB was directed to update the Scoping Plan to reflect the 2030 target and, therefore, is moving forward with the update process. The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue driving down emissions. CARB is moving forward with a second update to the Scoping Plan to reflect the 2030 target set by Executive Order B-30-15 and codified by SB 32. The 2017 Climate Change Scoping Plan Update, Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target, was released in proposed final form on November 30, 2017 and approved on December 14, 2017.

2.3.3 Local

2.3.3.1 San Diego Association of Government's Regional Plan

The Regional Plan (SANDAG 2015) is the long-range planning document developed to address the region's housing, economic, transportation, environmental, and overall quality-of-life needs. The underlying purpose of the Regional Plan is to provide direction and guidance on future regional growth (i.e., the location of new residential and non-residential land uses) and transportation patterns throughout San Diego County as stipulated under SB 375. The Regional Plan establishes a planning framework and implementation actions that increase the region's sustainability and encourage "smart growth while preserving natural resources and limiting urban sprawl." The Regional Plan encourages the regions and the County to increase residential and employment concentrations in areas with the best existing and future transit connections, and to preserve important open spaces. The focus is on implementation of basic smart growth principles designed to strengthen the integration of land use and transportation. General urban form goals, policies, and objectives are summarized as follows:

- Mix compatible uses.
- Take advantage of compact building design.
- Create a range of housing opportunities and choices.
- Create walkable neighborhoods.

- Foster distinctive, attractive communities with a strong sense of place.
- Preserve open space, natural beauty, and critical environmental areas.
- Strengthen and direct development towards existing communities.
- Provide a variety of transportation choices.
- Make development decisions predictable, fair, and cost-effective.
- Encourage community and stakeholder collaboration in development decisions.

The Regional Plan also addresses border issues, providing an important guideline for communities that have borders with Mexico. In this case, the goal is to create a regional community where San Diego, its neighboring counties, tribal governments, and northern Baja California mutually benefit from San Diego's varied resources and international location.

2.3.3.2 City of San Diego General Plan

The City of San Diego General Plan includes several climate change-related policies aimed at reducing GHG emissions from future development and City operations. For example, Conservation Element policy CE-A.2 aims to reduce the City's carbon footprint and to develop and adopt new or amended regulations, programs, and incentives as appropriate to implement the goals and policies set forth related to climate change (City of San Diego 2008). The Land Use and Community Planning Element; the Mobility Element; the Urban Design Element; and the Public Facilities, Services and Safety Element also identify GHG reduction and climate change adaptation goals. These elements contain policy language related to sustainable land use patterns, alternative modes of transportation, energy efficiency, water conservation, waste reduction, and greater landfill efficiency. The overall intent of these policies is to support climate protection actions, while retaining flexibility in the design of implementation measures, which could be influenced by new scientific research, technological advances, environmental conditions, or state and federal legislation. The 2008 General Plan was adopted in 2009 and amended in 2010 and 2012.

2.3.3.3 City of San Diego Climate Action Plan

In October 2010, the City Council established the Environmental and Economic Sustainability Task Force as an independent advisory body to work with City staff on the development of a plan for both city operations and the community to reduce GHG emissions and to begin to evaluate vulnerabilities in the community and outline adaptation strategies. On December 15, 2015, the City Council unanimously approved adoption of the Climate Action Plan (CAP).

3.0 EXISTING CONDITIONS

3.1 STATE AND REGIONAL GHG INVENTORIES

CARB performs statewide GHG inventories. The inventory is divided into six broad sectors; agriculture and forestry, commercial, electricity generation, industrial, residential, and transportation. Emissions are quantified in MMT CO_2e. Table 2, *California Greenhouse Gas Emissions by Sector*, shows the estimated statewide GHG emissions for the years 1990, 2000, 2010, and 2015.

Table 2
CALIFORNIA GREENHOUSE GAS EMISSIONS BY SECTOR
(MMT CO_2e)

Sector	1990	2000	2010	2015
Agriculture and Forestry	18.9 (4%)	32.0 (7%)	34.6 (8%)	34.7 (8%)
Commercial	14.4 (3%)	14.3 (3%)	20.1 (5%)	22.2 (5%)
Electricity Generation	110.5 (26%)	105.4 (23%)	90.6 (20%)	84.1 (19%)
Industrial	105.3 (24%)	104.6 (22%)	101.1 (23%)	103.0 (23%)
Residential	29.7 (7%)	31.2 (7%)	31.3 (7%)	26.9 (6%)
Transportation	150.6 (35%)	179.5 (38%)	168.1 (38%)	169.4 (38%)
Unspecified Remaining	1.3 (<1%)	0.4 (<1%)	0.3 (<1%)	0.2 (<1%)
TOTAL	**433.3**	**468.8**	**456.0**	**459.3**

Source: CARB 2007 and CARB 2017b

As shown in Table 2, statewide GHG emissions totaled 433 MMT CO2e in 1990, 469 MMT CO_2e in 2000, 456 MMT CO_2e in 2010, and 459 MMT CO_2e in 2015. Transportation-related emissions consistently contribute the most GHG emissions, followed by electricity generation and industrial emissions.

A San Diego regional emissions inventory was prepared by the University of San Diego School of Law, Energy Policy Initiative Center (EPIC) that took into account the unique characteristics of the region. Their 2010 emissions inventory for San Diego is duplicated below in Table 3, *San Diego County Greenhouse Gas Emissions by Sector*. The sectors included in this inventory are somewhat different from those in the statewide inventory. Similar to the statewide emissions, transportation-related GHG emissions contributed the most countywide, followed by emissions associated with energy use.

Table 3
SAN DIEGO COUNTY GREENHOUSE GAS EMISSIONS BY SECTOR
(MMT CO_2e)

Sector	2010
On-road Transportation	14.4 (43%)
Electricity	8.3 (25%)
Natural Gas Consumption	2.9 (9%)
Off-Road Equipment and Vehicles	1.4 (4%)
Civil Aviation	1.9 (6%)
Waste	0.6(2%)
Industrial	1.8 (5%)
Water-Borne Navigation	0.1 (<1%)
Rail	0.3 (1%)
Agriculture/Forestry/Land Use	0.5 (2%)
Other	1.6 (5%)
Sequestration	-0.7 (-2%)
TOTAL	**33.2**

Source: University of San Diego 2013

3.2 CITY OF SAN DIEGO CAP INVENTORY

A San Diego regional emissions inventory, prepared as part of the City of San Diego Climate Action Plan (CAP), reported GHG emissions totaling 13 MMT CO_2e in 2010. Similar to the statewide emissions, transportation-related GHG emissions contributed the most citywide, followed by emissions associated with energy use.

3.3 BASASP AREA GHG INVENTORY

A baseline analysis of the existing GHG emissions from the BASASP area land uses and associated traffic was performed using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. Both land use and traffic assumptions were adapted from the Traffic Impact Analysis prepared for the Specific Plan (Kimley-Horn 2017). This is the same methodology as that used for estimating GHG emissions resulting from the adopted community plan and proposed BASASP buildout described below (refer to Section 4.1). In brief, CalEEMod is a computer model that estimates GHG emissions from mobile (i.e., vehicular) sources, area sources (fireplaces, woodstoves, and landscape maintenance equipment), energy use (electricity and natural gas used in space heating and cooling, ventilation and lighting, and plug-in appliances), water use, and solid waste disposal based on land use categories.

Table 4, *Existing Balboa Avenue Station Area Specific Plan Land Uses*, lists the existing land use quantities that were input to CalEEMod to estimate existing area GHG emissions.

Table 4
EXISTING BALBOA AVENUE STATION AREA
SPECIFIC PLAN LAND USES

Land Use	Existing (2016)
Arterial Commercial (square feet)	184,588
Automobile Dealership (square feet)	55,088
Automobile Repair Shop (square feet)	8,000
Health Club (square feet)	40,418
Hotel (Low-Rise) (Motel) (square feet)	78,410
Industrial Park (square feet)	109,100
Multi-Family Residential (dwelling units)	672
Office (square feet)	72,147
Health Care (square feet)	43,192
Transportation (square feet)	400
Public Storage (square feet)	308,746
Service Station (square feet)	2,556
Single Family (dwelling units)	91

Source: Kimley-Horn 2017

The complete calculations of existing GHG emissions, including the CalEEMod input parameters and reported results, are included in Appendix A and summarized below.

3.3.1 Vehicle Emissions

CalEEMod estimates vehicle emissions by first calculating trip rate, trip length, trip purpose, and trip type percentages (e.g., home to work, home to shop, home to other) for each land use type, based on the land use types and quantities entered by the user in the land use module. For this analysis, the CalEEMod default trip rates and lengths were edited to reflect the trip rates and vehicle miles traveled (VMT) identified for each land use subtype in the traffic impact analysis prepared for the BASASP (Kimley-Horn 2017). Based on these inputs, the total annual vehicle miles traveled (VMT) was estimated to be 286 million miles, and vehicle-related GHG emissions were estimated to be 127,932 MT CO_2e per year.

3.3.2 Energy Use Emissions

As discussed in greater detail in Section 4.1.4, CalEEMod default energy consumption values assume compliance with the 2016 Title 24 energy code. Adjustments to simulate the 2005 Title 24 energy code are available in the model by selecting the "use historical data" box. Therefore, for the existing conditions energy emissions estimate the historical data box was selected in order to reflect GHG emissions from energy use as associated with a building built to the 2005 Title 24 energy code. Based on the existing land use inputs identified in Table 4 and average electricity and natural gas consumption rates adjusted to 2005 Title 24 Energy Efficiency Standards in CalEEMod, the proposed BASASP area's existing buildings are estimated to emit approximately 5,810 MT CO_2e per year.

3.3.3 Area Sources

CalEEMod estimates that existing area sources (fireplaces, woodstoves, and landscape maintenance equipment), determined from the land use inputs identified in Table 4, emit approximately 1,165 MT CO_2e per year.

3.3.4 Water Use Emissions

Water-related GHG emissions are from the conveyance and treatment of water. The California Energy Commission's 2006 Refining Estimates of Water-Related Energy Use in California defines average energy values for water in Southern California. These values are used in CalEEMod to establish default water-related emission factors. Using these defaults, the existing estimated GHG emissions related to water treatment and conveyance is 1,246 MT CO_2e per year.

3.3.5 Solid Waste Emissions

Existing solid waste generation within the BASASP area was estimated by CalEEMod by multiplying the land use inputs identified in Table 4 with average waste generation rates obtained from the California Department of Resources Recycling and Recovery (CalRecycle). Using these defaults, the existing estimated GHG emissions related to solid waste is 965 MT CO_2e per year.

3.3.6 Total Existing BASASP Area GHG Emissions

The results of the analysis described above indicate that the existing (2016) BASASP area uses are currently generating approximately 137,118 MT CO_2e annually as shown in Table 5, *Existing Balboa Avenue Station Area Specific Plan Area Greenhouse Gas Emissions*, below.

Table 5
EXISTING BALBOA AVENUE STATION AREA SPECIFIC PLAN AREA GREENHOUSE GAS EMISSIONS

Source	MT CO_2e per year
Area	1,165
Energy	5,810
Mobile	127,932
Waste	965
Water	1,246
Total	**137,118**

CalEEMod outputs provided in Appendix A

4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA

4.1 METHODOLOGY

GHG emissions were estimated using CalEEMod Version 2016.3.2 for full buildout of both the adopted Pacific Beach and Clairemont Mesa Community Plans (herein referred to as Community Plans) and the proposed BASASP for the year 2035. The model estimates criteria air pollutants and GHG emissions by multiplying emission source intensity factors by estimated quantities of emission sources based on the land use information entered by the user in the first module of the model. In the first module, the user defines the specific land uses that will occur at the project site. The user also selects the appropriate land use setting (urban or rural), operational year, location, and utility provider. The input land uses, size features, and population are used throughout CalEEMod in determining default variables and calculations in each of the subsequent modules. In various places, the user can input additional information and/or override the default assumptions to account for project- or location-specific parameters. The subsequent modules include construction (including off-road vehicle emissions), mobile (on-road vehicle emissions, area sources (woodstoves, fireplaces, consumer products, landscape maintenance equipment, and architectural coatings), water and wastewater, and solid waste. Each module comprises multiple components including an associated mitigation module to account for further reductions in the reported baseline calculations. These reductions are linked to several of the quantifiable mitigation measures identified in the CAPCOA *Quantifying Greenhouse Gas Mitigation Measures* August 2010 report (CAPCOA 2010)

Each of the modules' methodology and input data are described below. The reported GHG estimates based on these inputs are provided in Section 5.1. All CalEEMod inputs and detailed results are provided in Appendix A.

4.1.1 Defining Project Characteristics and Land Use

In this module the user is prompted to enter the project's location, setting, climate zone, utility provider, and the specific land uses that will occur. For this analysis, the location was selected as San Diego County with an urban setting, in climate zone 13, served by San Diego Gas and Electric (SDG&E).

By identifying the utility provider, its specific energy intensity factors are loaded into the model's calculations.

Based on data available in the Traffic Impact Analysis prepared for the Specific Plan, Table 6, *Adopted Community Plans and Proposed BASASP Land Uses*, lists the buildout land use quantities that were input to CalEEMod to estimate future BASASP area GHG emissions for both the adopted Community Plans and proposed BASASP (Kimley-Horn 2017). As shown in Table 6, the buildout totals include several existing land uses that would remain and not be redeveloped as part of the proposed project, as well as anticipated new/redeveloped land uses. These are distinguished in Table 6 as "Existing to Remain" and "New Development," and were subject to different model assumptions as described below.

Table 6
ADOPTED COMMUNITY PLANS AND PROPOSED BASASP LAND USES

Land Use	Adopted Community Plans			Proposed Balboa Avenue Station Area Specific Plan		
	Existing to Remain	Proposed New Development	Plan Total	Existing to Remain	Proposed New Development	Plan Total
Arterial Commercial (square feet)	184,588	127,408	311,996	184,588	383,577	568,165
Automobile Dealership (square feet)	52,677	0	52,677	0	0	0
Automobile Repair Shop (square feet)	8,000	0	8,000	0	0	0
Health Club (square feet)	40,418	0	40,418	0	0	0
Hotel (Low-Rise) (Motel) (square feet)	78,410	0	78,410	0	0	0
Industrial Park (square feet)	109,100	0	109,100	0	0	0
Light Industry – General (square feet)	0	114,698	114,698	0	114,698	114,698
Multi-Family Residential (dwelling units)	666	468	1,134	672	4,055	4,727
Office (square feet)	72,147	0	72,147	0	0	0
Health Care (square feet)	43,192	0	43,192	43,192	0	43,192
Transportation (square feet)	400	0	400	400	0	400
Public Storage (square feet)	308,746	0	308,746	308,746	0	308,746
Service Station (square feet)	2,556	0	2,556	2,556	0	2,556
Single Family (dwelling units)	87	0	87	2	0	2

Source: Kimley-Horn 2017

Emission estimates were calculated for the three GHGs of primary concern (CO_2, CH_4, and N_2O) that would be emitted from construction and the five primary operational sources that would be associated with the Plan buildout: on-road vehicular traffic, use of fireplaces and consumer products, energy use (composed of electricity use and natural gas consumption), water use, and solid waste disposal.

4.1.2 Estimating Construction Emissions

Construction emissions were estimated only for the new development land uses. Though this assumption does not account for typical turnover wherein an existing land use would be redeveloped, due to the amortization of construction emissions described below, it is decidedly more conservative to include the assumed continued operation of less efficient buildings in the operational emissions than the temporary construction emissions associated with a building's redevelopment. Construction activities emit GHGs primarily through combustion of fuels (mostly diesel) in the engines of off-road construction equipment, and through combustion of diesel and gasoline in on-road construction vehicles and in the commute vehicles of the construction workers. Smaller amounts of GHGs are also emitted through the energy use embodied in any water use (for fugitive dust control) and lighting for the construction activity. Every phase of the construction process, including demolition, grading, paving, and building, emits GHG emissions in volumes proportional to the quantity and type of construction equipment used. The heavier equipment typically emits more GHGs per hour of use than lighter equipment because of their greater fuel consumption and engine design.

GHG emissions associated with each phase of construction are calculated in CalEEMod by multiplying the total fuel consumed by the construction equipment and worker trips by applicable emission factors. CalEEMod forecasts the number and type of construction equipment that would be used given project-specific design. In the absence of project-specific construction information, needed equipment for all phases of construction are estimated by CalEEMod based on the size and subtypes of the land uses entered in the land use module.

CalEEMod estimates construction emissions for each year of construction activity based on the annual construction equipment profile and other factors determined as needed to complete all phases of construction by the target completion year. As such, each year of construction activity has varying quantities of GHG emissions. Per City Guidance, total construction GHG emissions are amortized over 30 years and added to operational GHG emissions.

4.1.3 Estimating Vehicle Emissions

For this analysis, the CalEEMod default trip rates and lengths were edited to reflect the trip rates and VMT identified for each land use subtype in the traffic impact analysis prepared for the BASASP (Kimley-Horn 2017). Based on these inputs, the total annual VMT under the adopted community plan was estimated to be 337 million miles and the total annual VMT for the BASASP was estimated to be 376 million miles. All modeling output files are provided in Appendix A of this report.

4.1.4 Estimating Energy Use Emissions

GHGs are emitted as a result of activities in buildings for which electricity and natural gas are used as energy sources. GHGs are generated during the generation of electricity from fossil fuels off-site in power plants. These emissions are considered indirect and are calculated in CalEEMod as associated with a building's operation.

CalEEMod default energy values are based on the CEC-sponsored California Commercial End Use Survey (CEUS) and Residential Appliance Saturation Survey (RASS) studies, which identify energy use by building type and climate zone. Each land use type input to the land use module is mapped in the energy module to the appropriate CEUS and RASS building type. Because these studies are based on older buildings, adjustments have been made in CalEEMod to account for changes to Title 24 building codes. The default adjustment is to the 2016 Title 24 energy code (part 6 of the building code). Should a user wish to simulate the 2005 Title 24 energy code, adjustments are available in the model by selecting the "use historical data" box.

For the estimates of the adopted community plan and BASASP, energy emissions were estimated using two runs of the model for each plan. One run assumed compliance with the default 2016 Title 24 energy code for the portion of the total buildout land use quantities that would be new (i.e., the New Development land uses), and therefore constructed in accordance with the 2016 Title 24 energy code. The second model run selected the historical data box for the portion of the total buildout land use quantities that comprise existing land uses that would not change (i.e., the Existing to Remain land uses). The two model runs were then added together to obtain the total projected energy emissions associated with either the adopted community plan or BASASP buildout. Table 6 lists the buildout land use quantities that were input to the Existing to Remain and New Development CalEEMod energy module runs.

4.1.5 Estimating Area Source Emissions

This CalEEMod module estimates the GHG emissions that would occur from the use of hearths, woodstoves, and landscaping equipment. This module also estimates emissions due to use of consumer products and architectural coatings that have volatile organic compounds (VOCs); however, these sources do not emit GHGs. The use of hearths and woodstoves directly emits CO_2 from the combustion of natural gas, wood, or biomass, some of which are thus classified as biogenic. CalEEMod estimates emissions from hearths and woodstoves only for residential uses based on the type and size of features of the residential land use inputs.

The use of landscape equipment emits GHGs associated with the equipment's fuel combustion. CalEEMod estimates the number and type of equipment needed based on the number of summer days given the project's location as entered in the project characteristics module. The model defaults for hearths, woodstoves, and landscaping equipment were assumed.

4.1.6 Estimating Water and Wastewater Emissions

The amount of water used and wastewater generated by a project has indirect GHG emissions associated with it. These emissions are a result of the energy used to supply, distribute, and treat the water and wastewater. In addition to the indirect GHG emissions associated with energy use, wastewater treatment can directly emit both methane and nitrous oxide.

CalEEMod uses default electricity intensity values for various phases of supplying and treating water from CEC's *Refining Estimates of Water-Related Energy Use in California*. The model estimates water/wastewater emissions by multiplying the total projected water/wastewater demand by the applicable water electricity intensities and by the utility intensity GHG factors.

The default water module assumptions were used for the estimates of existing conditions, including the existing land uses that would remain and not change. However, for the future/new land uses, the water mitigation module was used to account for an overall 20 percent reduction in water use for new development that would have to comply with recent requirements of CALGreen. Similar to energy use, recent updates to the water conservation element of Title 24 have resulted in increased water conservation for development subsequent to 2010. New construction and redevelopment that would occur under the BASASP would be constructed in accordance with the current CALGreen water conservation requirements. Because CALGreen requires a minimum 20 percent reduction in water use, a 20 percent reduction in water use was factored into the emissions calculations for new development by using the mitigation module. As with the energy efficiency improvements due to Title 24 updates, the improvements in water conservation were only applied to the new land use buildout quantities expected (i.e., the New Development quantities), not the whole buildout quantity.

4.1.7 Estimating Solid Waste Emissions

The disposal of solid waste produces GHG emissions from anaerobic decomposition in landfills, incineration, and transportation of waste. CalEEMod determines the GHG emissions associated with disposal of solid waste into landfills. Portions of these emissions are biogenic. To estimate the GHG emissions that would be generated by disposing of the solid waste associated with the BASASP buildout, the total volume of solid waste associated with the BASASP was first estimated in the model using waste disposal rates identified by CalRecycle. CalEEMod methods for quantifying GHG emissions from solid waste are based on the IPCC method using the degradable organic content of waste. Existing, adopted community plan, and BASASP GHG emissions associated with waste disposal were all calculated using CalEEMod's default parameters. Though the City of San Diego currently diverts approximately 67 percent of its solid waste through the City Recycling Ordinance, a conservative 50 percent solid waste diversion rate was applied to the new construction and redevelopment that would occur to account for mandatory compliance with AB 341.

4.2 GUIDELINES FOR THE DETERMINATION OF SIGNIFICANCE

Given the relatively small levels of emissions generated by a typical development in relationship to the total amount of GHG emissions generated on a national or global basis, individual development projects are not expected to result in significant, direct impacts with respect to climate change. However, given the magnitude of the impact of GHG emissions on the global climate, GHG emissions from new development could result in significant, cumulative impacts with respect to climate change. Thus, the potential for a significant GHG impact is limited to cumulative impacts.

The City (2016) has approved guidelines for determining significance based on Appendix G.VII of the State California Environmental Quality Act (CEQA) Guidelines, which provide guidance that a project would have a significant environmental impact if it would:

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or

2. Conflict with the City's Climate Action Plan or another applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

The CAP was originally adopted in December 2015, and future implementing actions necessary for the CAP PEIR to serve as a Qualified GHG Reduction Plan under CEQA Guidelines Section 15183.5 were adopted by City Council on July 12, 2016. This section of the CEQA Guidelines permits for discretionary projects under CEQA that are consistent with the CAP, to be able to tier off the GHG analysis set forth in the CAP Final EIR, which was certified on December 15, 2015, with an addendum certified on July 12, 2016. Analysis within this PEIR directly tiers off of the CAP PEIR for cumulative GHG Emissions under Section 15183.5. As such, consistency with the City's CAP is used to evaluate the significance of the project's GHG impact.

5.0 PROJECT IMPACTS

This section evaluates potential direct impacts of the Specific Plan related to the generation of GHG emissions.

5.1 GENERATION OF GREENHOUSE GAS EMISSIONS

5.1.1 Impacts

For the purposes of determining the increase in GHG emissions, an inventory was developed based on the land use designations associated with the adopted Pacific Beach and Clairemont Mesa Community Plans using CalEEMod, as described in Section 4.1. Emissions from the proposed BASASP were then compared with those associated with the adopted Community Plans.

5.1.1.1 Adopted Community Plans Emissions

The projected GHG emissions that would be generated from buildout of the adopted Community Plans were estimated using the methodology described in Section 4.1. The complete calculations including the input parameters are included in Appendix A.

Construction Emissions

GHG emissions would be associated with the construction of new development under the adopted Community Plans through use of heavy equipment and vehicle trips by the construction crew commuting to the construction sites. Emissions of GHGs related to the construction of new development would be temporary. The method for calculating these emissions is described in Section 4.1.2. Based on the adopted Community Plans, new development buildout land use quantities listed in Table 6, CalEEMod estimates that construction activities would generate a total of 3,335 MT CO_2e. While CalEEMod distributes construction activity emissions over each year at varying quantities depending on various model assumptions, for the purpose of this analysis, total construction GHG emissions were divided by 30 years in order to identify annual construction GHG emissions in accordance with City Guidance. Thus, annual construction GHG emissions associated with buildout of new land uses under the adopted Community Plans would be approximately 111 MT CO_2e per year.

Operational Emissions

Operational sources of GHG emissions include: (1) vehicle use; (2) energy use (electricity and natural gas); (3) area sources (landscaping equipment); (4) water conveyance and treatment; and (5) solid waste generation.

Vehicular (Mobile) Sources

Greenhouse gas emissions would be emitted from vehicles associated with adopted buildout of the Community Plans and would come from the combustion of fossil fuels in vehicle engines. The quantity and type of transportation fuel consumed, and the number of miles driven determines the amount of GHGs emitted from a vehicle. The method for calculating these emissions is described in Section 4.1.3. As described therein, CalEEMod default trip rates and lengths were edited to reflect the trip rates and VMT identified for each land use subtype in the traffic impact analysis prepared for the BASASP (Kimley-Horn 2017).

Based on these inputs, the total annual VMT under the adopted Community Plans was estimated to be 337 million miles and the total emissions were estimated to be 94,724 MT CO_2e. Of this total, approximately 70,425 MT CO_2e would be emitted annually by vehicles associated with the existing/not changing land uses, and 24,299 MT CO_2e would be emitted by vehicles associated with new/changing land uses.

Energy Use

GHG emissions would be generated by the buildout use of electricity and combustion of natural gas under the adopted Community Plans. As explained in Section 4.1.4, 2005 statewide average annual energy consumption rates were used to estimate emissions that would occur from the existing land uses that would remain. The new/redeveloped land uses would be required to comply with 2016 Title 24 standards. According to CAPCOA Guidance, the reduction in energy use associated with this efficiency is based on building type, size, and climate zone. The adopted Community Plans' annual GHG emissions from energy use are estimated to be 7,811 MT CO_2e per year. Of this total, approximately 5,769 MT CO_2e would be associated with existing land uses, and 2,042 MT CO_2e would be associated with new/ changing land uses.

Area Sources

Buildout of land uses under the adopted Community Plans would emit GHGs from area sources, including landscape maintenance equipment and fireplaces. The method for calculating these emissions is described in Section 4.1.5.

CalEEMod estimates that approximately 1,855 MT CO_2e would be emitted annually given buildout land use projections of the adopted Community Plans. Of this total, approximately 1,150 MT CO_2e would be associated with existing land uses, and 705 MT CO_2e would be associated with new/changing land uses.

Water Sources

The supply and treatment of water to end users of the adopted Community Plans would consume large amounts of energy, known as embodied energy. GHGs would be emitted from the generation of this embodied energy. The method for calculating these emissions is described in Section 4.1.6. As explained

therein, pre-2010 water consumption rates were used to estimate the emissions from the BASASP area's existing land uses that would remain. The BASASP area's new/redeveloped land uses would incorporate water-reduction features that would reduce water consumption and wastewater generation by 20 percent through mandatory compliance with CALGreen requirements. The adopted Community Plans' annual GHG emissions from water use are estimated to be 1,609 MT CO_2e per year. Of this total, approximately 1,239 MT CO_2e would be associated with existing land uses to remain, and 307 MT CO_2e would be associated with new development land uses.

Solid Waste Sources

The disposal of solid waste produces GHG emissions from anaerobic decomposition in landfills, incineration, and transportation of waste. The method for calculating these emissions is described in Section 4.1.7.

CalEEMod estimates that buildout of the adopted Community Plans would generate approximately 1,083 MT CO_2e. Of this total, approximately 960 MT CO_2e would be associated with existing land uses to remain, and 123 MT CO_2e would be associated with new development land uses.

Other GHG Emission Sources

Ozone is also a GHG; however, unlike other GHGs, ozone in the troposphere is relatively short lived and therefore is not global in nature. According to CARB, it is difficult to make an accurate determination of the contribution of ozone precursors (nitrogen oxides [NO_X] and VOCs) to global warming (CARB 2004). Therefore, it is assumed that emission of ozone precursors associated with the Specific Plan would not significantly contribute to climate change.

At present, there is a federal ban on chlorofluorocarbons (CFCs); therefore, it is assumed that the Specific Plan would not generate emissions of this GHG. Buildout of the adopted Community Plans may emit a small amount of HFC emissions from leakage, service of, and from disposal at the end of the life of refrigeration and air conditioning equipment. However, these emissions are not quantifiable and are assumed to be negligible. PFCs and sulfur hexafluoride are typically used in heavy-duty industrial applications. The adopted Community Plans do not include heavy-duty industrial applications. Therefore, it is not anticipated that the plan would contribute significant emissions of these GHGs.

Summary

As illustrated in Table 7, *Adopted Community Plans Annual Greenhouse Gas Emissions*, buildout of the adopted community plan would result in 107,193 MT CO_2e per year.

Table 7
ADOPTED COMMUNITY PLANS
ANNUAL GREENHOUSE GAS EMISSIONS

Emission Source	Emissions (MT CO_2e/year)
Area	1,855
Energy	7,811
Mobile	94,724
Solid Waste	1,083
Water	1,609
Construction (amortized over 30 years)	111
TOTAL	**107,193**

CalEEMod output data is provided in Appendix A
Note: Totals may not add up exactly due to rounding

5.1.1.2 BASASP Emissions

The projected GHG emissions that would be generated from buildout of the BASASP were estimated using the methodology described in Section 4.1. The complete calculations including the input parameters are included in Appendix A.

Construction Emissions

Based on the BASASP new development buildout land use quantities in Table 6, CalEEMod estimates that construction activities would generate a total of 74,971 MT CO_2e. While CalEEMod distributes construction activity emissions over each year at varying quantities depending on various model assumptions, for the purpose of this analysis, total construction GHG emissions were divided by 30 years in order to identify annual construction GHG emissions in accordance with City Guidance. Thus, annual construction GHG emissions associated with buildout of new land uses would be approximately 2,499 MT CO_2e per year.

Operational Emissions

The projected GHG emissions that would be generated from the BASASP were estimated using the methodology described in Section 4.1. The complete calculations, including the CalEEMod input files are included in Appendix A. The results are summarized below.

Vehicular (Mobile) Sources

For this analysis, the CalEEMod default trip rates and lengths were edited to reflect the trip rates and VMT identified for each land use subtype in the traffic impact analysis prepared for the BASASP (Kimley-Horn 2017). Based on these inputs, the total annual VMT for the BASASP was estimated to be 376 million miles and the total emissions were estimated to be 106,987 MT CO_2e. Of this total, approximately 41,752 MT CO_2e would be emitted annually by vehicles associated with the existing/not changing land uses, and 65,235 MT CO_2e would be emitted by vehicles associated with new/changing land uses.

Energy Use

The BASASP's annual GHG emissions from energy use are estimated to be 15,011 MT CO_2e per year. Of this total, approximately 3,180 MT CO_2e would be associated with existing land uses, and 11,821 MT CO_2e would be associated with new/changing land uses.

Area Sources

CalEEMod estimates that approximately 7,219 MT CO_2e would be emitted annually, given buildout land use projections of the BASASP. Of this total, approximately 1,029 MT CO_2e would be associated with existing land uses and 6,190 MT CO_2e would be associated with new/changing land uses.

Water Sources

The BASASP's annual GHG emissions from water use are estimated to be 2,868 MT CO_2e per year. Of this total, approximately 894 MT CO_2e would be associated with existing land uses to remain, and 1,974 MT CO_2e would be associated with new development land uses.

Solid Waste Sources

CalEEMod estimates that buildout of the BASASP would generate approximately 1,246 MT CO_2e from solid waste sources. Of this total, approximately 640 MT CO_2e would be associated with existing land uses to remain, and 606 MT CO_2e would be associated with new development land uses.

Other GHG Emission Sources

Other GHG emissions such as HFCs, PFCs and sulfur hexaflouride would be the same for the adopted Community Plans. Emissions of these GHGs would be negligible.

Summary

As shown in Table 8, *BASASP Annual Greenhouse Gas Emissions*, buildout of the BASASP would result in GHG emissions of 135,820 MT CO_2e per year.

Table 8
BASASP ANNUAL GREENHOUSE GAS EMISSIONS

Emission Source	Emissions (MT CO_2e/year)
Area	7,219
Energy	15,011
Mobile	106,987
Solid Waste	1,246
Water	2,868
Construction (amortized over 30 years)	2,499
TOTAL	**135,820**

CalEEMod output data is provided in Appendix A
Note: Totals may not add up exactly due to rounding

5.1.1.3 Comparison of BASASP and Adopted Community Plans GHG Emissions

For the purposes of determining the increase in GHG emissions associated with the proposed project, GHG emissions attributable to the BASASP at full buildout are compared to GHG emissions under the adopted Community Plans. As illustrated in Table 9, *Comparison of Adopted Community Plans vs Proposed BASASP Emissions*, the total GHG emission attributable to the adopted Community Plans are 107,193 MT CO_2e per year. Total GHG emissions attributable to the BASASP are 135,820 MT CO_2e per year. As such, the BASASP would result in an increase of 28,627 MT CO_2e per year when compared to the adopted Community Plans.

Table 9
COMPARISON OF ADOPTED COMMUNITY PLANS VS PROPOSED BASASP EMISSIONS

Emission Source	Annual Emissions (MT CO_2e/year)		
	Adopted Community Plan	BASASP	Difference
Area	1,855	7,219	5,365
Energy	7,811	15,001	7,190
Mobile	94,724	106,987	12,263
Solid Waste	1,083	1,246	163
Water	1,609	2,868	1,259
Construction (amortized over 30 years)	111	2,499	2,388
TOTAL	**107,193**	**135,820**	**28,627**

CalEEMod output data is provided in Appendix A
Note: Totals may not add up exactly due to rounding

5.1.2 Significance of Impacts

For the purposes of determining significance, GHG emissions attributable to the project in Year 2035 were compared to the adopted Community Plans GHG emissions. This comparison is appropriate because the GHG emissions from the adopted Community Plans were used when developing the City's CAP GHG Inventory.

As shown in Table 9, the BASASP would result in an increase in GHG emissions of 28,627 MT CO_2e per year when compared to the emissions that would occur under the adopted Community Plans. This is because the BASASP would include an additional 3,593 multi-family dwelling units and 256,169 SF of arterial commercial over the adopted Community Plans. The majority of the new multi-family dwelling units and arterial commercial uses is planned within a 0.5-mile radius of the Balboa Avenue Station, which is a designated Transit Priority Area (TPA). By placing these uses within a TPA, the BASASP would implement the CAP and City of Villages strategies by focusing projected future growth into mixed-use and multiple-use activity centers that are pedestrian- and bicycle-friendly and linked to transit. Consistency with the CAP and City of Villages strategy however would result in implementation of the BASASP having an increase in aggregated GHG emissions from increased population, however, on a per capita basis a decrease of GHG emissions would occur. Further, overall citywide GHG emissions per capita would decrease, consistent with the City's CAP targets for citywide GHG emissions reductions.

Therefore, while the BASASP would increase aggregated GHG emissions over those of the adopted Community Plans at buildout (year 2035), this increase in GHG is a direct result of the implementation of CAP Strategies and the General Plan's City of Villages Strategy. Increasing residential and commercial

density in transit corridors and Community Villages within a TPA would support the City of San Diego in achieving the GHG emissions reduction targets of the CAP, and thus, impacts associated with GHG emissions would be less than significant.

5.1.3 Mitigation Measures

Impacts would be less than significant; thus, no mitigation is required.

5.1.4 Significance After Mitigation

Impacts related to GHG emissions would be less than significant.

5.2 CONSISTENCY WITH ADOPTED PLANS

5.2.1 Impacts

The regulatory plans and policies discussed in Section 2.3 above aim to reduce national, state, and local GHG emissions by primarily targeting the largest emitters of GHGs: the transportation and energy sectors. Plan goals and regulatory standards are, thus, largely focused on the automobile industry and public utilities. For the transportation sector, the reduction strategy is generally three-pronged: to reduce GHG emissions from vehicles by improving engine design; to reduce the carbon content of transportation fuels through research, funding, and incentives to fuel suppliers; and to reduce the miles these vehicles travel through land use change and infrastructure investments.

For the energy sector, the reduction strategies aim to reduce energy demand; impose emission caps on energy providers; establish minimum building energy and green building standards; transition to renewable non-fossil fuels; incentivize homeowners and builders; fully recover landfill gas for energy; expand research and development; and so forth.

5.2.1.1 Consistency with State Plans

EO S-3-05 established GHG emission reduction targets for the state, and AB 32 launched the Climate Change Scoping Plan that outlined the reduction measures needed to reach these targets. The Scoping Plan and its implementing and complementary regulations are discussed in Section 2.3. Out of the Recommended Actions contained in CARB's Scoping Plan, the actions that are most applicable to the Specific Plan would be Actions E-1 and GB-1. CARB Scoping Plan Action E-1, together with Action GB-1 (Green Building), aims to reduce electricity demand by increased efficiency of Utility Energy Programs and adoption of more stringent building and appliance standards. The new construction associated with the BASASP would be required to include all mandatory green building measures under the CALGreen Code. Therefore, the BASASP would be consistent with the Scoping Plan measures through incorporation of stricter building and appliance standards.

5.2.1.2 Consistency with Regional Plans

San Diego Association of Government's Regional Plan

The proposed BASASP would be consistent with the goals of the Regional Plan to develop compact, walkable communities close to transit connections and consistent with smart growth principles. The

BASASP supports the multi-modal strategy of SANDAG's Regional Plan through improvements to increase bicycle, pedestrian, and transit access to the Balboa Avenue Trolley Station. Policies contained within the proposed BASASP Land Use and Mobility Elements would serve to promote bus transit use as well as other forms of mobility, including walking and bicycling. This type of development is consistent with the goals of the Regional Plan for reducing the emissions associated with new development. Furthermore, the Specific Plan's access to transit also results in the BASASP area being located within a designated Transit Priority Area consistent with Senate Bill 743. No significant adverse environmental effects would result from the adoption of the proposed BASASP in terms of consistency or conflict with the Regional Plan.

Consistency with Local Plans

New land use designations and policies within the BASASP have been designed to reflect and implement the CAP and the GHG reduction recommendations of the General Plan. Specifically, the BASASP includes multiple policies aimed at reducing GHG emissions from target emission sources and adapting to climate change. The proposed policies refine existing General Plan policies with site-specific recommendations applicable to the Balboa Avenue Station Area.

The CAP establishes five primary strategies for achieving the citywide goals of the plan. Strategy 1 (Energy & Water Efficient Buildings) includes goals, actions, and targets with the aim of reducing building energy consumption. Policies in the BASASP's Urban Design and Conservation Chapters address this strategy. Energy reduction can be achieved through the continued use or adaptive reuse of the existing building stock along with any needed energy efficiency upgrades. The BASASP includes narrative and policies in the aforementioned chapters for the creation of energy- and water-efficient buildings as well as sustainable building design and incorporation of building features that would reduce water consumption. This is coupled with reducing the dependency on non-renewable energy sources and the maximization of daylight and natural ventilation, the minimization of solar heat gain, and the reduction of emissions.

In regard to CAP Strategy 2, Clean & Renewable Energy, the Urban Design and Conservation Chapters of the BASASP include policies to encourage development that incorporates renewable energy, such as photo-voltaic panels on roof tops. The Conservation Chapter also contains an overarching goal to reduce dependence on non-renewable energy sources, and policies that include the use of sustainable building techniques for construction and operation of buildings that could include solar energy installations, electric vehicle charging stations, and solar water heating.

Strategy 3, Bicycling, Walking, Transit & Land Use, of the CAP has a number of goals that relate to land use and planning. Action 3.1 in Strategy 3 of the CAP calls for implementation of the General Plan's Mobility Element and the City of Villages strategy in TPAs to increase the use of transit. As discussed in Section 5.1.3 of this PEIR, the BASASP is consistent with the General Plan's Mobility Element and the City of Villages strategy and is thus consistent with Action 3.1 of the CAP. Further, a majority of the community is also within a half-mile walking distance to an existing or future transit stop and, thus, within a TPA. Policies have been included to promote walkability and connectivity through the construction of sidewalks and intersections, prioritization of multi-use urban path system improvements, support of a continuous and safe bicycle, and implementation of separated bicycle facilities where feasible.

Consistent with Actions 3.4 and 3.5 of Strategy 3, the BASASP includes policies to support intelligent transportation systems to improve roadway and parking efficiency and the exploration of traffic circle opportunities to reduce vehicle fuel consumption. Consistent with Action 3.6 of Strategy 3 of the CAP, the BASASP would implement transit-oriented development, particularly along Mission Bay Drive. Specific Mobility Chapter policies include, but are not limited to, coordinating with MTS and SANDAG to provide bicycle share stations, designated car share pick-up and drop-off areas, dedicated electric vehicle parking, dynamic parking management, real-time transit traveler information, and a wayfinding program for pedestrians and bicyclists.

The primary goal of CAP Strategy 4, Zero Waste – Gas & Waste Management, is to divert solid waste and capture landfill methane gas emissions. This strategy is Citywide in nature; however, the BASASP furthers this strategy by including policies in the Urban Design Chapter that support the use of recycled materials in public improvements, encouraging recycled or rapidly renewable source materials, and recycling of building materials for both public and private new development.

Strategy 5, Climate Resiliency, of the CAP calls for further analysis of the resiliency issues that face the various areas of the City. Resiliency is addressed throughout the BASASP as it pertains to water usage, energy efficiency, and sustainable development practices as noted above. Also included within the BASASP are policies supporting and encouraging an increase in the tree canopy within the community to reduce summer heat temperatures, increase absorption of pollutants and carbon dioxide, and contribute to a more inviting atmosphere for pedestrians.

As discussed above, analysis within this PEIR directly tiers off of the CAP PEIR for cumulative GHG Emissions under Section 15183.5. The BASASP is consistent with the adopted CAP and contain goals and objectives that implement all of the five primary CAP strategies. Therefore, the project would not conflict with the City's CAP or any other applicable plan, policy, or regulation adopted for the purpose of reducing emissions of greenhouse gases impacts, and impacts would be less than significant.

5.2.2 Significance of Impacts

The proposed BASASP would develop compact, walkable communities close to transit connections and consistent with smart growth principles. The BASASP supports the multi-modal strategy of the SANDAG Regional Plan through improvements to increase bicycle, pedestrian, and transit access to the Balboa Avenue Trolley Station. Policies contained within the proposed BASASP Land Use and Mobility Elements would serve to promote bus transit use as well as other forms of mobility, including walking and bicycling. The proposed BASASP incorporates goals and policies intended to support the General Plan and CAP policies and thus, impacts associated with GHG emissions would be less than significant.

5.2.3 Mitigation Framework

Impacts would be less than significant; thus, no mitigation is required.

5.2.4 Significance After Mitigation

Impacts related to GHG emissions would be less than significant.

6.0 LIST OF PREPARERS

Victor Ortiz	Senior Air Quality Specialist
Joanne M. Dramko, AICP	Principal Technical Specialist, Quality Assurance Reviewer
Tim Belzman	Project Manager

7.0 REFERENCES

BREEZE Software. 2017. California Emissions Estimator Model User's Guide Version 2016.3.2. October. Available at: http://caleemod.com/

California Air Resources Board (CARB). 2017a. Clean Car Standards – Pavley, Assembly Bill 1493. Accessed December. Available at: http://www.arb.ca.gov/cc/ccms/ccms.htm.

2017b. California Greenhouse Gas Inventory for 2000-2015 – By Sector and Activity. June 6.

2014. First Update to the Climate Change Scoping Plan: Building on the Framework. Available at: http://www.arb.ca.gov/cc/scopingplan/2013_update/first_update_climate_change_scoping_plan.pdf. May.

2008. Climate Change Scoping Plan – A Framework for Change. December.

2007. California 1990 Greenhouse Gas Emissions Level and 2020 Emissions Limit. November 19.

2004 Technical Support Document for Staff Proposal Regarding Reduction of GHG Emissions from Motor Vehicles Climate Change Overview.

California Building Standards Commission. 2017. CALGreen (CCR Title 24, Part 11). Available at: http://www.bsc.ca.gov/Home/CALGreen.aspx.

City of San Diego. 2016. California Environmental Quality Act Significance Determination Thresholds. July.

2015. City of San Diego Draft Climate Action Plan. Available at: http://www.sandiego.gov/planning/genplan/cap/index.shtml.

2008 City of San Diego General Plan. March 10.

Intergovernmental Panel on Climate Change (IPCC). 2014. *Mitigation of Climate Change.* Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J.C. Minx (eds.)]. Cambridge University Press, Cambridge, United Kingdom, and New York, NY, USA.

2007 Climate Change 2007: The Physical Science Basis, Summary for Policy Makers (Working Group Fourth Assessment Report). February. Available at: http://www.ipcc.ch/SPM2feb07.pdf.

Kimley Horn. 2017. Balboa Avenue Station Area Specific Plan Transportation Impact Study. December.

National Aeronautics and Space Administration, Goddard Institute for Space Studies (NASA). 2011. *NASA Research Finds 2010 Tied for Warmest Year on Record.* January 12. Available at: http://www.giss.nasa.gov/research/news/20110112/.

National Oceanic and Atmospheric Administration (NOAA). 2017. Earth System Research Laboratory. Available at: http://www.esrl.noaa.gov/gmd/ccgg/trends/global.html. Accessed December 8, 2017.

San Diego Association of Governments (SANDAG). 2015. San Diego Forward – The Regional Plan. October. Available at: http://www.sdforward.com/pdfs/RP_final/The%20Plan%20-%20combined.pdf.

U.S. Environmental Protection Agency (USEPA). 2017. Proposed Endangerment and Cause or Contribute Findings for Greenhouse Gases under the Clean Air Act. Last updated July 7. Available at: https://www.epa.gov/ghgemissions/endangerment-and-cause-or-contribute-findings-greenhouse-gases-under-section-202a-clean

U.S. Environmental Protection Agency and U.S. Department of Transportation, National Highway Traffic Safety Administration (USEPA and NHTSA). 2012. 2017 and Later Model Year Light-Duty Vehicle Greenhouse Gas Emissions and Corporate Average Fuel Economy Standards. October 15.

University of San Diego. 2013. San Diego County Updated Greenhouse Gas Inventory. March. Available at: http://catcher.sandiego.edu/items/usdlaw/EPIC-GHG-2013.pdf.

THIS PAGE INTENTIONALLY LEFT BLANK

Appendix A

CalEEMod Emission Calculations

BASASP - Existing (2016)

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	72.15	1000sqft	1.66	72,147.00	0
Medical Office Building	43.19	1000sqft	0.99	43,192.00	0
General Light Industry	0.00	1000sqft	0.00	0.00	0
Industrial Park	109.10	1000sqft	2.50	109,100.00	0
Unrefrigerated Warehouse-No Rail	308.75	1000sqft	7.09	308,746.00	0
Enclosed Parking with Elevator	0.40	1000sqft	0.01	400.00	0
Health Club	40.42	1000sqft	0.93	40,418.00	0
Motel	40.00	Room	1.80	78,408.00	0
Condo/Townhouse	672.00	Dwelling Unit	42.00	672,000.00	1922
Single Family Housing	91.00	Dwelling Unit	29.55	163,800.00	260
Automobile Care Center	8.00	1000sqft	0.18	8,000.00	0
Gasoline/Service Station	18.00	Pump	0.06	2,541.15	0
Regional Shopping Center	55.09	1000sqft	1.26	55,088.00	0
Strip Mall	184.59	1000sqft	4.24	184,588.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2016
Utility Company	San Diego Gas & Electric				

CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No Construction

Vehicle Trips - KHA2017

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	0.00
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TL	7.30	36.58
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CC_TTP	79.00	100.00
tblVehicleTrips	CC_TTP	28.00	100.00

tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	64.10	100.00
tblVehicleTrips	CC_TTP	28.00	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CC_TTP	62.00	100.00
tblVehicleTrips	CC_TTP	64.70	100.00
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	2.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	29.60	0.00
tblVehicleTrips	CW_TTP	19.00	0.00

tblVehicleTrips	CW_TTP	16.30	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	36.58
tblVehicleTrips	HW_TL	10.80	36.58
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	23.72	20.00
tblVehicleTrips	ST_TR	5.67	6.02
tblVehicleTrips	ST_TR	0.00	77.50

tblVehicleTrips	ST_TR	168.56	150.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	21.48
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	49.99
tblVehicleTrips	ST_TR	5.63	50.85
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	9.91	9.00
tblVehicleTrips	ST_TR	42.04	39.99
tblVehicleTrips	ST_TR	1.68	2.00
tblVehicleTrips	SU_TR	11.88	20.00
tblVehicleTrips	SU_TR	4.84	6.02
tblVehicleTrips	SU_TR	0.00	77.50
tblVehicleTrips	SU_TR	168.56	150.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	21.48
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	49.99
tblVehicleTrips	SU_TR	5.63	50.85
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	8.62	9.00
tblVehicleTrips	SU_TR	20.43	39.99
tblVehicleTrips	SU_TR	1.68	2.00
tblVehicleTrips	WD_TR	23.72	20.00
tblVehicleTrips	WD_TR	5.81	6.02

tblVehicleTrips	WD_TR	0.00	77.50
tblVehicleTrips	WD_TR	168.56	150.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	21.48
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	36.13	49.99
tblVehicleTrips	WD_TR	5.63	50.85
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	9.52	9.00
tblVehicleTrips	WD_TR	44.32	39.99
tblVehicleTrips	WD_TR	1.68	2.00

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					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	57.1979	1.0022	64.8495	0.1074		8.3170	8.3170		8.3170	8.3170	788.1467	339.8072	1,127.9540	0.7368	0.0620	1,164.8482
Energy	0.1321	1.1638	0.7379	7.2000e-003		0.0913	0.0913		0.0913	0.0913	0.0000	5,787.0716	5,787.0716	0.2054	0.0613	5,810.4648
Mobile	27.6090	156.0304	481.4718	1.3942	107.9736	2.0889	110.0625	28.9339	1.9784	30.9124	0.0000	127,751.4281	127,751.4281	7.2057	0.0000	127,931.5716
Waste						0.0000	0.0000		0.0000	0.0000	389.5356	0.0000	389.5356	23.0209	0.0000	965.0580
Water						0.0000	0.0000		0.0000	0.0000	59.2421	988.1454	1,047.3875	6.1245	0.1519	1,245.7671
Total	**84.9390**	**158.1965**	**547.0593**	**1.5087**	**107.9736**	**10.4971**	**118.4707**	**28.9339**	**10.3867**	**39.3206**	**1,236.9244**	**134,866.4523**	**136,103.3767**	**37.2933**	**0.2752**	**137,117.7096**

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	57.1979	1.0022	64.8495	0.1074		8.3170	8.3170		8.3170	8.3170	788.1467	339.8072	1,127.9540	0.7368	0.0620	1,164.8482
Energy	0.1321	1.1638	0.7379	7.2000e-003		0.0913	0.0913		0.0913	0.0913	0.0000	5,787.0716	5,787.0716	0.2054	0.0613	5,810.4648
Mobile	27.6090	156.0304	481.4718	1.3942	107.9736	2.0889	110.0625	28.9339	1.9784	30.9124	0.0000	127,751.4281	127,751.4281	7.2057	0.0000	127,931.5716
Waste						0.0000	0.0000		0.0000	0.0000	389.5356	0.0000	389.5356	23.0209	0.0000	965.0580
Water						0.0000	0.0000		0.0000	0.0000	59.2421	988.1454	1,047.3875	6.1245	0.1519	1,245.7671
Total	**84.9390**	**158.1965**	**547.0593**	**1.5087**	**107.9736**	**10.4971**	**118.4707**	**28.9339**	**10.3867**	**39.3206**	**1,236.9244**	**134,866.4523**	**136,103.3767**	**37.2933**	**0.2752**	**137,117.7096**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/9/2014	12/8/2014	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

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

3.2 Demolition - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	27.6090	156.0304	481.4718	1.3942	107.9736	2.0889	110.0625	28.9339	1.9784	30.9124	0.0000	127,751.4281	127,751.4281	7.2057	0.0000	127,931.5716
Unmitigated	27.6090	156.0304	481.4718	1.3942	107.9736	2.0889	110.0625	28.9339	1.9784	30.9124	0.0000	127,751.4281	127,751.4281	7.2057	0.0000	127,931.5716

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	160.00	160.00	160.00	2,130,419	2,130,419
Condo/Townhouse	4,045.44	4,045.44	4045.44	53,865,519	53,865,519
Enclosed Parking with Elevator	31.00	31.00	31.00	412,769	412,769
Gasoline/Service Station	2,700.00	2,700.00	2700.00	35,950,824	35,950,824
General Light Industry	0.00	0.00	0.00		
General Office Building	1,549.72	1,549.72	1549.72	20,634,675	20,634,675
Health Club	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	2,159.17	2,159.17	2159.17	28,749,582	28,749,582
Motel	2,034.00	2,034.00	2034.00	27,082,954	27,082,954
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	819.00	819.00	819.00	10,905,083	10,905,083
Strip Mall	7,381.67	7,381.67	7381.67	98,287,877	98,287,877
Unrefrigerated Warehouse-No Rail	617.49	617.49	617.49	8,221,980	8,221,980
Total	21,497.49	21,497.49	21,497.49	286,241,682	286,241,682

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
Condo/Townhouse	36.58	7.30	7.50	100.00	0.00	0.00	100	0	0
Enclosed Parking with Elevator	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
Gasoline/Service Station	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
General Light Industry	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
General Office Building	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
Health Club	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
Industrial Park	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
Medical Office Building	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
Motel	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
Regional Shopping Center	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
Single Family Housing	36.58	7.30	7.50	100.00	0.00	0.00	100	0	0
Strip Mall	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0
Unrefrigerated Warehouse-No	9.50	36.58	7.30	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Condo/Townhouse	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Enclosed Parking with Elevator	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Gasoline/Service Station	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
General Light Industry	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
General Office Building	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Health Club	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Industrial Park	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Medical Office Building	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Motel	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Regional Shopping Center	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Single Family Housing	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Strip Mall	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671
Unrefrigerated Warehouse-No Rail	0.556254	0.048998	0.194899	0.123259	0.021708	0.005733	0.014388	0.021527	0.001857	0.002335	0.006649	0.000721	0.001671

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,479.9214	4,479.9214	0.1803	0.0373	4,495.5470
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,479.9214	4,479.9214	0.1803	0.0373	4,495.5470
NaturalGas Mitigated	0.1321	1.1638	0.7379	7.2000e-003		0.0913	0.0913		0.0913	0.0913	0.0000	1,307.1501	1,307.1501	0.0251	0.0240	1,314.9179
NaturalGas Unmitigated	0.1321	1.1638	0.7379	7.2000e-003		0.0913	0.0913		0.0913	0.0913	0.0000	1,307.1501	1,307.1501	0.0251	0.0240	1,314.9179

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	98320	5.3000e-004	4.8200e-003	4.0500e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.2467	5.2467	1.0000e-004	1.0000e-004	5.2779
Condo/Townhouse	9.81332e+006	0.0529	0.4522	0.1924	2.8900e-003		0.0366	0.0366		0.0366	0.0366	0.0000	523.6763	523.6763	0.0100	9.6000e-003	526.7883
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	31230.7	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.69978e+006	9.1700e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003	0.0000	90.7069	90.7069	1.7400e-003	1.6600e-003	91.2459
Health Club	496737	2.6800e-003	0.0244	0.0205	1.5000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003	0.0000	26.5078	26.5078	5.1000e-004	4.9000e-004	26.6653
Industrial Park	2.5704e+006	0.0139	0.1260	0.1058	7.6000e-004		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	137.1661	137.1661	2.6300e-003	2.5100e-003	137.9812
Medical Office Building	1.0176e+006	5.4900e-003	0.0499	0.0419	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3032	54.3032	1.0400e-003	1.0000e-003	54.6259
Motel	4.82915e+006	0.0260	0.2367	0.1989	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	257.7018	257.7018	4.9400e-003	4.7200e-003	259.2332
Regional Shopping Center	132762	7.2000e-004	6.5100e-003	5.4700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0847	7.0847	1.4000e-004	1.3000e-004	7.1268
Single Family Housing	2.73724e+006	0.0148	0.1261	0.0537	8.1000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	146.0695	146.0695	2.8000e-003	2.6800e-003	146.9375
Strip Mall	444857	2.4000e-003	0.0218	0.0183	1.3000e-004		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	23.7393	23.7393	4.6000e-004	4.4000e-004	23.8803
Unrefrigerated Warehouse-No Rail	623667	3.3600e-003	0.0306	0.0257	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.2812	33.2812	6.4000e-004	6.1000e-004	33.4790
Total		**0.1321**	**1.1638**	**0.7379**	**7.2200e-003**		**0.0913**	**0.0913**		**0.0913**	**0.0913**	**0.0000**	**1,307.1501**	**1,307.1501**	**0.0251**	**0.0240**	**1,314.9179**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	98320	5.3000e-004	4.8200e-003	4.0500e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.2467	5.2467	1.0000e-004	1.0000e-004	5.2779
Condo/Townhouse	9.81332e+006	0.0529	0.4522	0.1924	2.8900e-003		0.0366	0.0366		0.0366	0.0366	0.0000	523.6763	523.6763	0.0100	9.6000e-003	526.7883
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	31230.7	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.69978e+006	9.1700e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003	0.0000	90.7069	90.7069	1.7400e-003	1.6600e-003	91.2459
Health Club	496737	2.6800e-003	0.0244	0.0205	1.5000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003	0.0000	26.5078	26.5078	5.1000e-004	4.9000e-004	26.6653
Industrial Park	2.5704e+006	0.0139	0.1260	0.1058	7.6000e-004		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	137.1661	137.1661	2.6300e-003	2.5100e-003	137.9812
Medical Office Building	1.0176e+006	5.4900e-003	0.0499	0.0419	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3032	54.3032	1.0400e-003	1.0000e-003	54.6259
Motel	4.82915e+006	0.0260	0.2367	0.1989	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	257.7018	257.7018	4.9400e-003	4.7200e-003	259.2332
Regional Shopping Center	132762	7.2000e-004	6.5100e-003	5.4700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0847	7.0847	1.4000e-004	1.3000e-004	7.1268
Single Family Housing	2.73724e+006	0.0148	0.1261	0.0537	8.1000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	146.0695	146.0695	2.8000e-003	2.6800e-003	146.9375
Strip Mall	444857	2.4000e-003	0.0218	0.0183	1.3000e-004		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	23.7393	23.7393	4.6000e-004	4.4000e-004	23.8803
Unrefrigerated Warehouse-No Rail	623667	3.3600e-003	0.0306	0.0257	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.2812	33.2812	6.4000e-004	6.1000e-004	33.4790
Total		**0.1321**	**1.1638**	**0.7379**	**7.2200e-003**		**0.0913**	**0.0913**		**0.0913**	**0.0913**	**0.0000**	**1,307.1501**	**1,307.1501**	**0.0251**	**0.0240**	**1,314.9179**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	75040	24.5237	9.9000e-004	2.0000e-004	24.6093
Condo/Townhouse	2.94666e+006	962.9942	0.0388	8.0200e-003	966.3530
Enclosed Parking with Elevator	2696	0.8811	4.0000e-005	1.0000e-005	0.8842
Gasoline/Service Station	23836	7.7898	3.1000e-004	6.0000e-005	7.8170
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.13559e+006	371.1220	0.0149	3.0900e-003	372.4164
Health Club	379121	123.9000	4.9900e-003	1.0300e-003	124.3322
Industrial Park	1.71723e+006	561.2071	0.0226	4.6700e-003	563.1646
Medical Office Building	679842	222.1784	8.9400e-003	1.8500e-003	222.9533
Motel	1.2067e+006	394.3599	0.0159	3.2800e-003	395.7353
Regional Shopping Center	814752	266.2679	0.0107	2.2200e-003	267.1967
Single Family Housing	659683	215.5901	8.6800e-003	1.8000e-003	216.3420
Strip Mall	2.73006e+006	892.2064	0.0359	7.4300e-003	895.3183
Unrefrigerated Warehouse-No Rail	1.33687e+006	436.9009	0.0176	3.6400e-003	438.4248
Total		**4,479.9214**	**0.1803**	**0.0373**	**4,495.5470**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	75040	24.5237	9.9000e-004	2.0000e-004	24.6093
Condo/Townhouse	2.94666e+006	962.9942	0.0388	8.0200e-003	966.3530
Enclosed Parking with Elevator	2696	0.8811	4.0000e-005	1.0000e-005	0.8842
Gasoline/Service Station	23836	7.7898	3.1000e-004	6.0000e-005	7.8170
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.13559e+006	371.1220	0.0149	3.0900e-003	372.4164
Health Club	379121	123.9000	4.9900e-003	1.0300e-003	124.3322
Industrial Park	1.71723e+006	561.2071	0.0226	4.6700e-003	563.1646
Medical Office Building	679842	222.1784	8.9400e-003	1.8500e-003	222.9533
Motel	1.2067e+006	394.3599	0.0159	3.2800e-003	395.7353
Regional Shopping Center	814752	266.2679	0.0107	2.2200e-003	267.1967
Single Family Housing	659683	215.5901	8.6800e-003	1.8000e-003	216.3420
Strip Mall	2.73006e+006	892.2064	0.0359	7.4300e-003	895.3183
Unrefrigerated Warehouse-No Rail	1.33687e+006	436.9009	0.0176	3.6400e-003	438.4248
Total		**4,479.9214**	**0.1803**	**0.0373**	**4,495.5470**

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	57.1979	1.0022	64.8495	0.1074		8.3170	8.3170		8.3170	8.3170	788.1467	339.8072	1,127.9540	0.7368	0.0620	1,164.8482
Unmitigated	57.1979	1.0022	64.8495	0.1074		8.3170	8.3170		8.3170	8.3170	788.1467	339.8072	1,127.9540	0.7368	0.0620	1,164.8482

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	2.3529					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.7879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	47.8754	0.9350	59.0969	0.1071		8.2860	8.2860		8.2860	8.2860	788.1467	330.5372	1,118.6840	0.7273	0.0620	1,155.3413
Landscaping	0.1817	0.0673	5.7526	3.0000e-004		0.0310	0.0310		0.0310	0.0310	0.0000	9.2700	9.2700	9.4800e-003	0.0000	9.5069
Total	**57.1979**	**1.0022**	**64.8495**	**0.1074**		**8.3170**	**8.3170**		**8.3170**	**8.3170**	**788.1467**	**339.8072**	**1,127.9540**	**0.7368**	**0.0620**	**1,164.8482**

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	2.3529					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.7879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	47.8754	0.9350	59.0969	0.1071		8.2860	8.2860		8.2860	8.2860	788.1467	330.5372	1,118.6840	0.7273	0.0620	1,155.3413
Landscaping	0.1817	0.0673	5.7526	3.0000e-004		0.0310	0.0310		0.0310	0.0310	0.0000	9.2700	9.2700	9.4800e-003	0.0000	9.5069
Total	**57.1979**	**1.0022**	**64.8495**	**0.1074**		**8.3170**	**8.3170**		**8.3170**	**8.3170**	**788.1467**	**339.8072**	**1,127.9540**	**0.7368**	**0.0620**	**1,164.8482**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,047.3875	6.1245	0.1519	1,245.7671
Unmitigated	1,047.3875	6.1245	0.1519	1,245.7671

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.752649 / 0.461301	5.1165	0.0247	6.2000e-004	5.9192
Condo/Townhouse	43.7835 / 27.6026	300.4267	1.4382	0.0361	347.1321
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0.239074 / 0.146529	1.6252	7.8500e-003	2.0000e-004	1.8802
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	12.8235 / 7.85956	87.1739	0.4212	0.0106	100.8503
Health Club	2.39057 / 1.46519	16.2510	0.0785	1.9700e-003	18.8006
Industrial Park	25.2294 / 0	115.3646	0.8264	0.0203	142.0762
Medical Office Building	5.4195 / 1.03229	28.5295	0.1777	4.3900e-003	34.2804
Motel	1.01467 / 0.112741	5.0491	0.0333	8.2000e-004	6.1248
Regional Shopping Center	4.08066 / 2.50105	27.7402	0.1340	3.3600e-003	32.0923
Single Family Housing	5.92902 / 3.73786	40.6828	0.1948	4.8800e-003	47.0075
Strip Mall	13.673 / 8.38025	92.9492	0.4491	0.0113	107.5317
Unrefrigerated Warehouse-No Rail	71.3984 / 0	326.4787	2.3388	0.0575	402.0718
Total		**1,047.3875**	**6.1245**	**0.1519**	**1,245.7671**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.752649 / 0.461301	5.1165	0.0247	6.2000e-004	5.9192
Condo/Townhouse	43.7835 / 27.6026	300.4267	1.4382	0.0361	347.1321
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0.239074 / 0.146529	1.6252	7.8500e-003	2.0000e-004	1.8802
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	12.8235 / 7.85956	87.1739	0.4212	0.0106	100.8503
Health Club	2.39057 / 1.46519	16.2510	0.0785	1.9700e-003	18.8006
Industrial Park	25.2294 / 0	115.3646	0.8264	0.0203	142.0762
Medical Office Building	5.4195 / 1.03229	28.5295	0.1777	4.3900e-003	34.2804
Motel	1.01467 / 0.112741	5.0491	0.0333	8.2000e-004	6.1248
Regional Shopping Center	4.08066 / 2.50105	27.7402	0.1340	3.3600e-003	32.0923
Single Family Housing	5.92902 / 3.73786	40.6828	0.1948	4.8800e-003	47.0075
Strip Mall	13.673 / 8.38025	92.9492	0.4491	0.0113	107.5317
Unrefrigerated Warehouse-No Rail	71.3984 / 0	326.4787	2.3388	0.0575	402.0718
Total		**1,047.3875**	**6.1245**	**0.1519**	**1,245.7671**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	389.5356	23.0209	0.0000	965.0580
Unmitigated	389.5356	23.0209	0.0000	965.0580

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	30.56	6.2034	0.3666	0.0000	15.3687
Condo/Townhouse	309.12	62.7486	3.7083	0.0000	155.4569
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	9.7	1.9690	0.1164	0.0000	4.8781
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	67.1	13.6207	0.8050	0.0000	33.7447
Health Club	230.39	46.7671	2.7639	0.0000	115.8635
Industrial Park	135.28	27.4606	1.6229	0.0000	68.0325
Medical Office Building	466.45	94.6851	5.5957	0.0000	234.5784
Motel	21.9	4.4455	0.2627	0.0000	11.0135
Regional Shopping Center	57.84	11.7410	0.6939	0.0000	29.0878
Single Family Housing	106.6	21.6388	1.2788	0.0000	53.6093
Strip Mall	193.82	39.3437	2.3252	0.0000	97.4724
Unrefrigerated Warehouse-No Rail	290.22	58.9120	3.4816	0.0000	145.9521
Total		**389.5356**	**23.0209**	**0.0000**	**965.0579**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	30.56	6.2034	0.3666	0.0000	15.3687
Condo/Townhouse	309.12	62.7486	3.7083	0.0000	155.4569
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	9.7	1.9690	0.1164	0.0000	4.8781
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	67.1	13.6207	0.8050	0.0000	33.7447
Health Club	230.39	46.7671	2.7639	0.0000	115.8635
Industrial Park	135.28	27.4606	1.6229	0.0000	68.0325
Medical Office Building	466.45	94.6851	5.5957	0.0000	234.5784
Motel	21.9	4.4455	0.2627	0.0000	11.0135
Regional Shopping Center	57.84	11.7410	0.6939	0.0000	29.0878
Single Family Housing	106.6	21.6388	1.2788	0.0000	53.6093
Strip Mall	193.82	39.3437	2.3252	0.0000	97.4724
Unrefrigerated Warehouse-No Rail	290.22	58.9120	3.4816	0.0000	145.9521
Total		**389.5356**	**23.0209**	**0.0000**	**965.0579**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

BASASP - Existing Approved (2035)

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	8.00	1000sqft	0.18	8,000.00	0
Condo/Townhouse	666.00	Dwelling Unit	41.63	666,000.00	1905
Enclosed Parking with Elevator	0.40	1000sqft	0.01	400.00	0
Gasoline/Service Station	18.00	Pump	0.06	2,541.15	0
General Light Industry	0.00	1000sqft	0.00	0.00	0
General Office Building	72.15	1000sqft	1.66	72,147.00	0
Health Club	40.42	1000sqft	0.93	40,418.00	0
Industrial Park	109.10	1000sqft	2.50	109,100.00	0
Medical Office Building	43.19	1000sqft	0.99	43,192.00	0
Motel	40.00	Room	1.80	78,408.00	0
Regional Shopping Center	52.68	1000sqft	1.21	52,677.00	0
Single Family Housing	87.00	Dwelling Unit	28.25	156,600.00	249
Strip Mall	184.59	1000sqft	4.24	184,588.00	0
Unrefrigerated Warehouse-No Rail	308.75	1000sqft	7.09	308,746.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				

CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No Construction

Vehicle Trips - KHA2017

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	0.00
tblConstructionPhase	PhaseEndDate	4/28/2034	12/9/2033
tblEnergyUse	LightingElect	2.63	2.63
tblEnergyUse	T24E	257.40	257.40
tblEnergyUse	T24E	3.92	3.92
tblEnergyUse	T24E	550.61	550.61
tblEnergyUse	T24NG	11,601.59	11,601.59
tblEnergyUse	T24NG	24,260.55	24,260.55
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79

tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CC_TTP	79.00	100.00
tblVehicleTrips	CC_TTP	28.00	100.00
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	64.10	100.00
tblVehicleTrips	CC_TTP	28.00	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CC_TTP	62.00	100.00
tblVehicleTrips	CC_TTP	64.70	100.00
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00

tblVehicleTrips	CW_TTP	2.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	29.60	0.00
tblVehicleTrips	CW_TTP	19.00	0.00
tblVehicleTrips	CW_TTP	16.30	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HS_TTP	18.80	0.00

tblVehicleTrips	HW_TL	10.80	29.79
tblVehicleTrips	HW_TL	10.80	29.79
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00

tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	23.72	20.00
tblVehicleTrips	ST_TR	5.67	6.00
tblVehicleTrips	ST_TR	0.00	77.50
tblVehicleTrips	ST_TR	168.56	150.00
tblVehicleTrips	ST_TR	1.32	14.99
tblVehicleTrips	ST_TR	2.46	21.48
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	49.99
tblVehicleTrips	ST_TR	5.63	50.85
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	9.91	9.00
tblVehicleTrips	ST_TR	42.04	48.99
tblVehicleTrips	ST_TR	1.68	2.00
tblVehicleTrips	SU_TR	11.88	20.00
tblVehicleTrips	SU_TR	4.84	6.00
tblVehicleTrips	SU_TR	0.00	77.50
tblVehicleTrips	SU_TR	168.56	150.00
tblVehicleTrips	SU_TR	0.68	14.99
tblVehicleTrips	SU_TR	1.05	21.48
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	49.99

tblVehicleTrips	SU_TR	5.63	50.85
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	8.62	9.00
tblVehicleTrips	SU_TR	20.43	48.99
tblVehicleTrips	SU_TR	1.68	2.00
tblVehicleTrips	WD_TR	23.72	20.00
tblVehicleTrips	WD_TR	5.81	6.00
tblVehicleTrips	WD_TR	0.00	77.50
tblVehicleTrips	WD_TR	168.56	150.00
tblVehicleTrips	WD_TR	6.97	14.99
tblVehicleTrips	WD_TR	11.03	21.48
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	36.13	49.99
tblVehicleTrips	WD_TR	5.63	50.85
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	9.52	9.00
tblVehicleTrips	WD_TR	44.32	48.99
tblVehicleTrips	WD_TR	1.68	2.00

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					
2033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	56.4716	0.9871	63.9019	0.1060		8.2084	8.2084		8.2084	8.2084	777.8172	335.3538	1,113.1710	0.7265	0.0612	1,149.5662
Energy	0.1309	1.1540	0.7336	7.1400e-003		0.0905	0.0905		0.0905	0.0905	0.0000	5,745.9357	5,745.9357	0.2040	0.0608	5,769.1575
Mobile	9.1811	40.5388	152.8199	0.7557	94.2527	0.3677	94.6204	25.2303	0.3421	25.5724	0.0000	70,347.0715	70,347.0715	3.1285	0.0000	70,425.2845
Waste						0.0000	0.0000		0.0000	0.0000	387.5463	0.0000	387.5463	22.9033	0.0000	960.1295
Water						0.0000	0.0000		0.0000	0.0000	58.9787	982.7246	1,041.7033	6.0972	0.1512	1,239.1975
Total	**65.7836**	**42.6798**	**217.4553**	**0.8688**	**94.2527**	**8.6665**	**102.9192**	**25.2303**	**8.6409**	**33.8713**	**1,224.3422**	**77,411.0856**	**78,635.4278**	**33.0596**	**0.2732**	**79,543.3352**

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	56.4716	0.9871	63.9019	0.1060		8.2084	8.2084		8.2084	8.2084	777.8172	335.3538	1,113.1710	0.7265	0.0612	1,149.5662
Energy	0.1309	1.1540	0.7336	7.1400e-003		0.0905	0.0905		0.0905	0.0905	0.0000	5,745.9357	5,745.9357	0.2040	0.0608	5,769.1575
Mobile	9.1811	40.5388	152.8199	0.7557	94.2527	0.3677	94.6204	25.2303	0.3421	25.5724	0.0000	70,347.0715	70,347.0715	3.1285	0.0000	70,425.2845
Waste						0.0000	0.0000		0.0000	0.0000	387.5463	0.0000	387.5463	22.9033	0.0000	960.1295
Water						0.0000	0.0000		0.0000	0.0000	58.9787	982.7246	1,041.7033	6.0972	0.1512	1,239.1975
Total	**65.7836**	**42.6798**	**217.4553**	**0.8688**	**94.2527**	**8.6665**	**102.9192**	**25.2303**	**8.6409**	**33.8713**	**1,224.3422**	**77,411.0856**	**78,635.4278**	**33.0596**	**0.2732**	**79,543.3352**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/10/2033	12/9/2033	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

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

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.1811	40.5388	152.8199	0.7557	94.2527	0.3677	94.6204	25.2303	0.3421	25.5724	0.0000	70,347.0715	70,347.0715	3.1285	0.0000	70,425.2845
Unmitigated	9.1811	40.5388	152.8199	0.7557	94.2527	0.3677	94.6204	25.2303	0.3421	25.5724	0.0000	70,347.0715	70,347.0715	3.1285	0.0000	70,425.2845

4.2 Trip Summary Information

BASASP - Existing Approved (2035) - San Diego County, Annual

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	160.00	160.00	160.00	1,734,970	1,734,970
Condo/Townhouse	3,996.00	3,996.00	3996.00	43,330,866	43,330,866
Enclosed Parking with Elevator	31.00	31.00	31.00	336,150	336,150
Gasoline/Service Station	2,700.00	2,700.00	2700.00	29,277,612	29,277,612
General Light Industry	0.00	0.00	0.00		
General Office Building	1,549.72	1,549.72	1549.72	16,804,455	16,804,455
Health Club	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	2,159.17	2,159.17	2159.17	23,413,069	23,413,069
Motel	2,034.00	2,034.00	2034.00	22,055,801	22,055,801
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	783.00	783.00	783.00	8,490,507	8,490,507
Strip Mall	9,042.97	9,042.97	9042.97	98,057,946	98,057,946
Unrefrigerated Warehouse-No Rail	617.49	617.49	617.49	6,695,812	6,695,812
Total	23,073.34	23,073.34	23,073.34	250,197,187	250,197,187

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
Condo/Townhouse	29.79	7.30	7.50	100.00	0.00	0.00	100	0	0
Enclosed Parking with Elevator	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
Gasoline/Service Station	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
General Light Industry	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
General Office Building	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
Health Club	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
Industrial Park	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
Medical Office Building	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
Motel	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
Regional Shopping Center	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
Single Family Housing	29.79	7.30	7.50	100.00	0.00	0.00	100	0	0
Strip Mall	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0
Unrefrigerated Warehouse-No	9.50	29.79	7.30	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking with Elevator	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Gasoline/Service Station	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Industrial Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Medical Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Motel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Regional Shopping Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Unrefrigerated Warehouse-No Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,450.1919	4,450.1919	0.1791	0.0371	4,465.7137
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,450.1919	4,450.1919	0.1791	0.0371	4,465.7137
NaturalGas Mitigated	0.1309	1.1540	0.7336	7.1400e-003		0.0905	0.0905		0.0905	0.0905	0.0000	1,295.7439	1,295.7439	0.0248	0.0238	1,303.4438
NaturalGas Unmitigated	0.1309	1.1540	0.7336	7.1400e-003		0.0905	0.0905		0.0905	0.0905	0.0000	1,295.7439	1,295.7439	0.0248	0.0238	1,303.4438

5.2 Energy by Land Use - NaturalGas

Unmitigated

BASASP - Existing Approved (2035) - San Diego County, Annual

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	98320	5.3000e-004	4.8200e-003	4.0500e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.2467	5.2467	1.0000e-004	1.0000e-004	5.2779
Condo/Townhouse	9.72571e+006	0.0524	0.4482	0.1907	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	519.0008	519.0008	9.9500e-003	9.5200e-003	522.0849
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	31230.7	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.69978e+006	9.1700e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003	0.0000	90.7069	90.7069	1.7400e-003	1.6600e-003	91.2459
Health Club	496737	2.6800e-003	0.0244	0.0205	1.5000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003	0.0000	26.5078	26.5078	5.1000e-004	4.9000e-004	26.6653
Industrial Park	2.5704e+006	0.0139	0.1260	0.1058	7.6000e-004		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	137.1661	137.1661	2.6300e-003	2.5100e-003	137.9812
Medical Office Building	1.0176e+006	5.4900e-003	0.0499	0.0419	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3032	54.3032	1.0400e-003	1.0000e-003	54.6259
Motel	4.82915e+006	0.0260	0.2367	0.1989	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	257.7018	257.7018	4.9400e-003	4.7200e-003	259.2332
Regional Shopping Center	126952	6.8000e-004	6.2200e-003	5.2300e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7746	6.7746	1.3000e-004	1.2000e-004	6.8149
Single Family Housing	2.61692e+006	0.0141	0.1206	0.0513	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	139.6489	139.6489	2.6800e-003	2.5600e-003	140.4787
Strip Mall	444857	2.4000e-003	0.0218	0.0183	1.3000e-004		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	23.7393	23.7393	4.6000e-004	4.4000e-004	23.8803
Unrefrigerated Warehouse-No Rail	623667	3.3600e-003	0.0306	0.0257	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.2812	33.2812	6.4000e-004	6.1000e-004	33.4790
Total		**0.1309**	**1.1540**	**0.7336**	**7.1500e-003**		**0.0905**	**0.0905**		**0.0905**	**0.0905**	**0.0000**	**1,295.7439**	**1,295.7439**	**0.0249**	**0.0238**	**1,303.4438**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	98320	5.3000e-004	4.8200e-003	4.0500e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.2467	5.2467	1.0000e-004	1.0000e-004	5.2779
Condo/Townhouse	9.72571e+006	0.0524	0.4482	0.1907	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	519.0008	519.0008	9.9500e-003	9.5200e-003	522.0849
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	31230.7	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.69978e+006	9.1700e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003	0.0000	90.7069	90.7069	1.7400e-003	1.6600e-003	91.2459
Health Club	496737	2.6800e-003	0.0244	0.0205	1.5000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003	0.0000	26.5078	26.5078	5.1000e-004	4.9000e-004	26.6653
Industrial Park	2.5704e+006	0.0139	0.1260	0.1058	7.6000e-004		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	137.1661	137.1661	2.6300e-003	2.5100e-003	137.9812
Medical Office Building	1.0176e+006	5.4900e-003	0.0499	0.0419	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3032	54.3032	1.0400e-003	1.0000e-003	54.6259
Motel	4.82915e+006	0.0260	0.2367	0.1989	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	257.7018	257.7018	4.9400e-003	4.7200e-003	259.2332
Regional Shopping Center	126952	6.8000e-004	6.2200e-003	5.2300e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7746	6.7746	1.3000e-004	1.2000e-004	6.8149
Single Family Housing	2.61692e+006	0.0141	0.1206	0.0513	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	139.6489	139.6489	2.6800e-003	2.5600e-003	140.4787
Strip Mall	444857	2.4000e-003	0.0218	0.0183	1.3000e-004		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	23.7393	23.7393	4.6000e-004	4.4000e-004	23.8803
Unrefrigerated Warehouse-No Rail	623667	3.3600e-003	0.0306	0.0257	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.2812	33.2812	6.4000e-004	6.1000e-004	33.4790
Total		**0.1309**	**1.1540**	**0.7336**	**7.1500e-003**		**0.0905**	**0.0905**		**0.0905**	**0.0905**	**0.0000**	**1,295.7439**	**1,295.7439**	**0.0249**	**0.0238**	**1,303.4438**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	75040	24.5237	9.9000e-004	2.0000e-004	24.6093
Condo/Townhouse	2.92035e+006	954.3949	0.0384	7.9500e-003	957.7238
Enclosed Parking with Elevator	2695.59	0.8809	4.0000e-005	1.0000e-005	0.8840
Gasoline/Service Station	23836	7.7898	3.1000e-004	6.0000e-005	7.8170
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.13559e+006	371.1220	0.0149	3.0900e-003	372.4164
Health Club	379121	123.9000	4.9900e-003	1.0300e-003	124.3322
Industrial Park	1.71723e+006	561.2071	0.0226	4.6700e-003	563.1646
Medical Office Building	679842	222.1784	8.9400e-003	1.8500e-003	222.9533
Motel	1.2067e+006	394.3599	0.0159	3.2800e-003	395.7353
Regional Shopping Center	779093	254.6144	0.0103	2.1200e-003	255.5024
Single Family Housing	630685	206.1135	8.3000e-003	1.7200e-003	206.8324
Strip Mall	2.73006e+006	892.2064	0.0359	7.4300e-003	895.3183
Unrefrigerated Warehouse-No Rail	1.33687e+006	436.9009	0.0176	3.6400e-003	438.4248
Total		**4,450.1919**	**0.1791**	**0.0371**	**4,465.7137**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	75040	24.5237	9.9000e-004	2.0000e-004	24.6093
Condo/Townhouse	2.92035e+006	954.3949	0.0384	7.9500e-003	957.7238
Enclosed Parking with Elevator	2695.59	0.8809	4.0000e-005	1.0000e-005	0.8840
Gasoline/Service Station	23836	7.7898	3.1000e-004	6.0000e-005	7.8170
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.13559e+006	371.1220	0.0149	3.0900e-003	372.4164
Health Club	379121	123.9000	4.9900e-003	1.0300e-003	124.3322
Industrial Park	1.71723e+006	561.2071	0.0226	4.6700e-003	563.1646
Medical Office Building	679842	222.1784	8.9400e-003	1.8500e-003	222.9533
Motel	1.2067e+006	394.3599	0.0159	3.2800e-003	395.7353
Regional Shopping Center	779093	254.6144	0.0103	2.1200e-003	255.5024
Single Family Housing	630685	206.1135	8.3000e-003	1.7200e-003	206.8324
Strip Mall	2.73006e+006	892.2064	0.0359	7.4300e-003	895.3183
Unrefrigerated Warehouse-No Rail	1.33687e+006	436.9009	0.0176	3.6400e-003	438.4248
Total		**4,450.1919**	**0.1791**	**0.0371**	**4,465.7137**

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	56.4716	0.9871	63.9019	0.1060		8.2084	8.2084		8.2084	8.2084	777.8172	335.3538	1,113.1710	0.7265	0.0612	1,149.5662
Unmitigated	56.4716	0.9871	63.9019	0.1060		8.2084	8.2084		8.2084	8.2084	777.8172	335.3538	1,113.1710	0.7265	0.0612	1,149.5662

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	2.3295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.7269					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	47.2479	0.9227	58.3224	0.1057		8.1774	8.1774		8.1774	8.1774	777.8172	326.2052	1,104.0223	0.7178	0.0612	1,140.1992
Landscaping	0.1673	0.0644	5.5795	3.0000e-004		0.0310	0.0310		0.0310	0.0310	0.0000	9.1487	9.1487	8.7300e-003	0.0000	9.3670
Total	**56.4716**	**0.9871**	**63.9019**	**0.1060**		**8.2084**	**8.2084**		**8.2084**	**8.2084**	**777.8172**	**335.3538**	**1,113.1710**	**0.7265**	**0.0612**	**1,149.5662**

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	2.3295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.7269					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	47.2479	0.9227	58.3224	0.1057		8.1774	8.1774		8.1774	8.1774	777.8172	326.2052	1,104.0223	0.7178	0.0612	1,140.1992
Landscaping	0.1673	0.0644	5.5795	3.0000e-004		0.0310	0.0310		0.0310	0.0310	0.0000	9.1487	9.1487	8.7300e-003	0.0000	9.3670
Total	**56.4716**	**0.9871**	**63.9019**	**0.1060**		**8.2084**	**8.2084**		**8.2084**	**8.2084**	**777.8172**	**335.3538**	**1,113.1710**	**0.7265**	**0.0612**	**1,149.5662**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,041.7033	6.0972	0.1512	1,239.1975
Unmitigated	1,041.7033	6.0972	0.1512	1,239.1975

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.752649 / 0.461301	5.1165	0.0247	6.2000e-004	5.9192
Condo/Townhouse	43.3926 / 27.3562	297.7444	1.4254	0.0358	344.0327
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0.239074 / 0.146529	1.6252	7.8500e-003	2.0000e-004	1.8802
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	12.8235 / 7.85956	87.1739	0.4212	0.0106	100.8503
Health Club	2.39057 / 1.46519	16.2510	0.0785	1.9700e-003	18.8006
Industrial Park	25.2294 / 0	115.3646	0.8264	0.0203	142.0762
Medical Office Building	5.4195 / 1.03229	28.5295	0.1777	4.3900e-003	34.2804
Motel	1.01467 / 0.112741	5.0491	0.0333	8.2000e-004	6.1248
Regional Shopping Center	3.90214 / 2.39163	26.5267	0.1282	3.2100e-003	30.6884
Single Family Housing	5.6684 / 3.57356	38.8945	0.1862	4.6700e-003	44.9412
Strip Mall	13.673 / 8.38025	92.9492	0.4491	0.0113	107.5317
Unrefrigerated Warehouse-No Rail	71.3984 / 0	326.4787	2.3388	0.0575	402.0718
Total		**1,041.7033**	**6.0972**	**0.1512**	**1,239.1975**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.752649 / 0.461301	5.1165	0.0247	6.2000e-004	5.9192
Condo/Townhouse	43.3926 / 27.3562	297.7444	1.4254	0.0358	344.0327
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0.239074 / 0.146529	1.6252	7.8500e-003	2.0000e-004	1.8802
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	12.8235 / 7.85956	87.1739	0.4212	0.0106	100.8503
Health Club	2.39057 / 1.46519	16.2510	0.0785	1.9700e-003	18.8006
Industrial Park	25.2294 / 0	115.3646	0.8264	0.0203	142.0762
Medical Office Building	5.4195 / 1.03229	28.5295	0.1777	4.3900e-003	34.2804
Motel	1.01467 / 0.112741	5.0491	0.0333	8.2000e-004	6.1248
Regional Shopping Center	3.90214 / 2.39163	26.5267	0.1282	3.2100e-003	30.6884
Single Family Housing	5.6684 / 3.57356	38.8945	0.1862	4.6700e-003	44.9412
Strip Mall	13.673 / 8.38025	92.9492	0.4491	0.0113	107.5317
Unrefrigerated Warehouse-No Rail	71.3984 / 0	326.4787	2.3388	0.0575	402.0718
Total		**1,041.7033**	**6.0972**	**0.1512**	**1,239.1975**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	387.5463	22.9033	0.0000	960.1295
Unmitigated	387.5463	22.9033	0.0000	960.1295

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	30.56	6.2034	0.3666	0.0000	15.3687
Condo/Townhouse	306.36	62.1883	3.6752	0.0000	154.0689
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	9.7	1.9690	0.1164	0.0000	4.8781
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	67.1	13.6207	0.8050	0.0000	33.7447
Health Club	230.39	46.7671	2.7639	0.0000	115.8635
Industrial Park	135.28	27.4606	1.6229	0.0000	68.0325
Medical Office Building	466.45	94.6851	5.5957	0.0000	234.5784
Motel	21.9	4.4455	0.2627	0.0000	11.0135
Regional Shopping Center	55.31	11.2274	0.6635	0.0000	27.8155
Single Family Housing	102.09	20.7234	1.2247	0.0000	51.3412
Strip Mall	193.82	39.3437	2.3252	0.0000	97.4724
Unrefrigerated Warehouse-No Rail	290.22	58.9120	3.4816	0.0000	145.9521
Total		**387.5463**	**22.9033**	**0.0000**	**960.1295**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	30.56	6.2034	0.3666	0.0000	15.3687
Condo/Townhouse	306.36	62.1883	3.6752	0.0000	154.0689
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	9.7	1.9690	0.1164	0.0000	4.8781
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	67.1	13.6207	0.8050	0.0000	33.7447
Health Club	230.39	46.7671	2.7639	0.0000	115.8635
Industrial Park	135.28	27.4606	1.6229	0.0000	68.0325
Medical Office Building	466.45	94.6851	5.5957	0.0000	234.5784
Motel	21.9	4.4455	0.2627	0.0000	11.0135
Regional Shopping Center	55.31	11.2274	0.6635	0.0000	27.8155
Single Family Housing	102.09	20.7234	1.2247	0.0000	51.3412
Strip Mall	193.82	39.3437	2.3252	0.0000	97.4724
Unrefrigerated Warehouse-No Rail	290.22	58.9120	3.4816	0.0000	145.9521
Total		**387.5463**	**22.9033**	**0.0000**	**960.1295**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

BASASP - New Approved (2035)

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	114.70	1000sqft	2.63	114,698.00	0
Condo/Townhouse	462.00	Dwelling Unit	28.88	462,000.00	1321
Strip Mall	127.41	1000sqft	2.92	127,408.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Vehicle Trips - KHA2017

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	CC_TL	7.30	29.79

tblVehicleTrips	CC_TL	7.30	29.79
tblVehicleTrips	CC_TTP	28.00	100.00
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	5.67	0.00
tblVehicleTrips	ST_TR	1.32	14.99
tblVehicleTrips	ST_TR	42.04	48.99
tblVehicleTrips	SU_TR	4.84	0.00
tblVehicleTrips	SU_TR	0.68	14.99
tblVehicleTrips	SU_TR	20.43	48.99
tblVehicleTrips	WD_TR	5.81	0.00
tblVehicleTrips	WD_TR	6.97	14.99
tblVehicleTrips	WD_TR	44.32	48.99

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					
2018	0.5513	5.3491	3.6032	7.4000e-003	0.7625	0.2490	1.0115	0.3285	0.2310	0.5595	0.0000	675.8006	675.8006	0.1417	0.0000	679.3427
2019	0.5797	4.3752	4.2429	0.0113	0.5187	0.1816	0.7004	0.1396	0.1709	0.3105	0.0000	1,027.5872	1,027.5872	0.1128	0.0000	1,030.4062
2020	0.5259	3.9932	4.0395	0.0111	0.5207	0.1560	0.6767	0.1401	0.1467	0.2869	0.0000	1,011.7708	1,011.7708	0.1096	0.0000	1,014.5116
2021	10.3357	2.3240	2.5752	6.7200e-003	0.2981	0.0910	0.3891	0.0802	0.0853	0.1655	0.0000	609.3157	609.3157	0.0756	0.0000	611.2049
Maximum	**10.3357**	**5.3491**	**4.2429**	**0.0113**	**0.7625**	**0.2490**	**1.0115**	**0.3285**	**0.2310**	**0.5595**	**0.0000**	**1,027.5872**	**1,027.5872**	**0.1417**	**0.0000**	**1,030.4062**

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					
2018	0.5513	5.3491	3.6032	7.4000e-003	0.7625	0.2490	1.0115	0.3285	0.2310	0.5595	0.0000	675.8000	675.8000	0.1417	0.0000	679.3422
2019	0.5797	4.3752	4.2429	0.0113	0.5187	0.1816	0.7004	0.1396	0.1709	0.3105	0.0000	1,027.5868	1,027.5868	0.1128	0.0000	1,030.4058
2020	0.5259	3.9932	4.0395	0.0111	0.5207	0.1560	0.6767	0.1401	0.1467	0.2869	0.0000	1,011.7705	1,011.7705	0.1096	0.0000	1,014.5113
2021	10.3357	2.3239	2.5752	6.7200e-003	0.2981	0.0910	0.3891	0.0802	0.0853	0.1655	0.0000	609.3154	609.3154	0.0756	0.0000	611.2046
Maximum	**10.3357**	**5.3491**	**4.2429**	**0.0113**	**0.7625**	**0.2490**	**1.0115**	**0.3285**	**0.2310**	**0.5595**	**0.0000**	**1,027.5868**	**1,027.5868**	**0.1417**	**0.0000**	**1,030.4058**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**2-8-2018**	**5-7-2018**	1.4130	1.4130
2	**5-8-2018**	**8-7-2018**	2.0303	2.0303
3	**8-8-2018**	**11-7-2018**	1.6654	1.6654
4	**11-8-2018**	**2-7-2019**	1.3225	1.3225
5	**2-8-2019**	**5-7-2019**	1.2054	1.2054
6	**5-8-2019**	**8-7-2019**	1.2386	1.2386
7	**8-8-2019**	**11-7-2019**	1.2439	1.2439
8	**11-8-2019**	**2-7-2020**	1.2041	1.2041

9	**2-8-2020**	**5-7-2020**	1.1079	1.1079
10	**5-8-2020**	**8-7-2020**	1.1259	1.1259
11	**8-8-2020**	**11-7-2020**	1.1305	1.1305
12	**11-8-2020**	**2-7-2021**	1.0932	1.0932
13	**2-8-2021**	**5-7-2021**	0.9933	0.9933
14	**5-8-2021**	**8-7-2021**	0.8769	0.8769
15	**8-8-2021**	**9-30-2021**	0.4010	0.4010
		Highest	2.0303	2.0303

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	32.8443	0.6056	39.2040	0.0650		5.0362	5.0362		5.0362	5.0362	477.2265	205.7497	682.9761	0.4458	0.0375	705.3059
Energy	0.0445	0.3851	0.1966	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	2,033.4325	2,033.4325	0.0726	0.0213	2,041.6062
Mobile	3.1678	13.9872	52.7277	0.2608	32.5202	0.1269	32.6471	8.7053	0.1180	8.8233	0.0000	24,271.9877	24,271.9877	1.0794	0.0000	24,298.9737
Waste						0.0000	0.0000		0.0000	0.0000	99.1672	0.0000	99.1672	5.8606	0.0000	245.6825
Water						0.0000	0.0000		0.0000	0.0000	20.9588	371.0273	391.9861	2.1676	0.0539	462.2440
Total	**36.0566**	**14.9779**	**92.1283**	**0.3282**	**32.5202**	**5.1938**	**37.7140**	**8.7053**	**5.1850**	**13.8903**	**597.3524**	**26,882.1972**	**27,479.5496**	**9.6260**	**0.1128**	**27,753.8123**

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	32.8443	0.6056	39.2040	0.0650		5.0362	5.0362		5.0362	5.0362	477.2265	205.7497	682.9761	0.4458	0.0375	705.3059
Energy	0.0445	0.3851	0.1966	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	2,033.4325	2,033.4325	0.0726	0.0213	2,041.6062
Mobile	3.1678	13.9872	52.7277	0.2608	32.5202	0.1269	32.6471	8.7053	0.1180	8.8233	0.0000	24,271.9877	24,271.9877	1.0794	0.0000	24,298.9737
Waste						0.0000	0.0000		0.0000	0.0000	49.5836	0.0000	49.5836	2.9303	0.0000	122.8412
Water						0.0000	0.0000		0.0000	0.0000	16.7670	296.8219	313.5889	1.7341	0.0431	369.7952
Total	**36.0566**	**14.9779**	**92.1283**	**0.3282**	**32.5202**	**5.1938**	**37.7140**	**8.7053**	**5.1850**	**13.8903**	**543.5771**	**26,807.9917**	**27,351.5688**	**6.2621**	**0.1020**	**27,538.5222**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**9.00**	**0.28**	**0.47**	**34.95**	**9.56**	**0.78**

3.0 Construction Detail

Construction Phase

BASASP - New Approved (2035) - San Diego County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/8/2018	4/18/2018	5	50	
2	Site Preparation	Site Preparation	4/19/2018	5/30/2018	5	30	
3	Grading	Grading	5/31/2018	9/12/2018	5	75	
4	Building Construction	Building Construction	9/13/2018	7/14/2021	5	740	
5	Paving	Paving	7/15/2021	9/29/2021	5	55	
6	Architectural Coating	Architectural Coating	9/30/2021	12/15/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 935,550; Residential Outdoor: 311,850; Non-Residential Indoor: 363,159; Non-Residential Outdoor: 121,053; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	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	130	0.42
Paving	Paving Equipment	2	8.00	132	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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	422.00	89.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	84.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0930	0.9581	0.5576	9.7000e-004		0.0485	0.0485		0.0451	0.0451	0.0000	87.8102	87.8102	0.0242	0.0000	88.4150
Total	**0.0930**	**0.9581**	**0.5576**	**9.7000e-004**		**0.0485**	**0.0485**		**0.0451**	**0.0451**	**0.0000**	**87.8102**	**87.8102**	**0.0242**	**0.0000**	**88.4150**

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	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.6000e-003	1.2700e-003	0.0122	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.8942	2.8942	1.0000e-004	0.0000	2.8967
Total	**1.6000e-003**	**1.2700e-003**	**0.0122**	**3.0000e-005**	**3.0100e-003**	**2.0000e-005**	**3.0300e-003**	**8.0000e-004**	**2.0000e-005**	**8.2000e-004**	**0.0000**	**2.8942**	**2.8942**	**1.0000e-004**	**0.0000**	**2.8967**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0930	0.9581	0.5576	9.7000e-004		0.0485	0.0485		0.0451	0.0451	0.0000	87.8101	87.8101	0.0242	0.0000	88.4149
Total	**0.0930**	**0.9581**	**0.5576**	**9.7000e-004**		**0.0485**	**0.0485**		**0.0451**	**0.0451**	**0.0000**	**87.8101**	**87.8101**	**0.0242**	**0.0000**	**88.4149**

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	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.6000e-003	1.2700e-003	0.0122	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.8942	2.8942	1.0000e-004	0.0000	2.8967
Total	**1.6000e-003**	**1.2700e-003**	**0.0122**	**3.0000e-005**	**3.0100e-003**	**2.0000e-005**	**3.0300e-003**	**8.0000e-004**	**2.0000e-005**	**8.2000e-004**	**0.0000**	**2.8942**	**2.8942**	**1.0000e-004**	**0.0000**	**2.8967**

3.3 Site Preparation - 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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0684	0.7230	0.3371	5.7000e-004		0.0387	0.0387		0.0356	0.0356	0.0000	52.1399	52.1399	0.0162	0.0000	52.5457
Total	**0.0684**	**0.7230**	**0.3371**	**5.7000e-004**	**0.2710**	**0.0387**	**0.3096**	**0.1490**	**0.0356**	**0.1845**	**0.0000**	**52.1399**	**52.1399**	**0.0162**	**0.0000**	**52.5457**

3.3 Site Preparation - 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	1.1500e-003	9.1000e-004	8.7600e-003	2.0000e-005	2.1700e-003	2.0000e-005	2.1800e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	2.0838	2.0838	7.0000e-005	0.0000	2.0856
Total	**1.1500e-003**	**9.1000e-004**	**8.7600e-003**	**2.0000e-005**	**2.1700e-003**	**2.0000e-005**	**2.1800e-003**	**5.8000e-004**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**2.0838**	**2.0838**	**7.0000e-005**	**0.0000**	**2.0856**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0684	0.7230	0.3371	5.7000e-004		0.0387	0.0387		0.0356	0.0356	0.0000	52.1398	52.1398	0.0162	0.0000	52.5456
Total	**0.0684**	**0.7230**	**0.3371**	**5.7000e-004**	**0.2710**	**0.0387**	**0.3096**	**0.1490**	**0.0356**	**0.1845**	**0.0000**	**52.1398**	**52.1398**	**0.0162**	**0.0000**	**52.5456**

3.3 Site Preparation - 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	1.1500e-003	9.1000e-004	8.7600e-003	2.0000e-005	2.1700e-003	2.0000e-005	2.1800e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	2.0838	2.0838	7.0000e-005	0.0000	2.0856
Total	**1.1500e-003**	**9.1000e-004**	**8.7600e-003**	**2.0000e-005**	**2.1700e-003**	**2.0000e-005**	**2.1800e-003**	**5.8000e-004**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**2.0838**	**2.0838**	**7.0000e-005**	**0.0000**	**2.0856**

3.4 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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1909	2.2321	1.3159	2.3300e-003		0.0988	0.0988		0.0909	0.0909	0.0000	212.4319	212.4319	0.0661	0.0000	214.0852
Total	**0.1909**	**2.2321**	**1.3159**	**2.3300e-003**	**0.3253**	**0.0988**	**0.4240**	**0.1349**	**0.0909**	**0.2257**	**0.0000**	**212.4319**	**212.4319**	**0.0661**	**0.0000**	**214.0852**

3.4 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	3.2100e-003	2.5400e-003	0.0243	6.0000e-005	6.0100e-003	4.0000e-005	6.0600e-003	1.6000e-003	4.0000e-005	1.6400e-003	0.0000	5.7883	5.7883	2.0000e-004	0.0000	5.7933
Total	**3.2100e-003**	**2.5400e-003**	**0.0243**	**6.0000e-005**	**6.0100e-003**	**4.0000e-005**	**6.0600e-003**	**1.6000e-003**	**4.0000e-005**	**1.6400e-003**	**0.0000**	**5.7883**	**5.7883**	**2.0000e-004**	**0.0000**	**5.7933**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1909	2.2321	1.3159	2.3300e-003		0.0988	0.0988		0.0909	0.0909	0.0000	212.4316	212.4316	0.0661	0.0000	214.0850
Total	**0.1909**	**2.2321**	**1.3159**	**2.3300e-003**	**0.3253**	**0.0988**	**0.4240**	**0.1349**	**0.0909**	**0.2257**	**0.0000**	**212.4316**	**212.4316**	**0.0661**	**0.0000**	**214.0850**

3.4 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	3.2100e-003	2.5400e-003	0.0243	6.0000e-005	6.0100e-003	4.0000e-005	6.0600e-003	1.6000e-003	4.0000e-005	1.6400e-003	0.0000	5.7883	5.7883	2.0000e-004	0.0000	5.7933
Total	**3.2100e-003**	**2.5400e-003**	**0.0243**	**6.0000e-005**	**6.0100e-003**	**4.0000e-005**	**6.0600e-003**	**1.6000e-003**	**4.0000e-005**	**1.6400e-003**	**0.0000**	**5.7883**	**5.7883**	**2.0000e-004**	**0.0000**	**5.7933**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1045	0.9122	0.6856	1.0500e-003		0.0585	0.0585		0.0550	0.0550	0.0000	92.7292	92.7292	0.0227	0.0000	93.2972
Total	**0.1045**	**0.9122**	**0.6856**	**1.0500e-003**		**0.0585**	**0.0585**		**0.0550**	**0.0550**	**0.0000**	**92.7292**	**92.7292**	**0.0227**	**0.0000**	**93.2972**

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0182	0.4633	0.1274	9.6000e-004	0.0230	3.6000e-003	0.0266	6.6500e-003	3.4500e-003	0.0101	0.0000	92.9044	92.9044	7.6600e-003	0.0000	93.0958
Worker	0.0703	0.0557	0.5342	1.4100e-003	0.1320	9.7000e-004	0.1330	0.0351	9.0000e-004	0.0360	0.0000	127.0188	127.0188	4.3800e-003	0.0000	127.1284
Total	**0.0886**	**0.5190**	**0.6617**	**2.3700e-003**	**0.1550**	**4.5700e-003**	**0.1596**	**0.0417**	**4.3500e-003**	**0.0461**	**0.0000**	**219.9231**	**219.9231**	**0.0120**	**0.0000**	**220.2241**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1045	0.9122	0.6856	1.0500e-003		0.0585	0.0585		0.0550	0.0550	0.0000	92.7291	92.7291	0.0227	0.0000	93.2971
Total	**0.1045**	**0.9122**	**0.6856**	**1.0500e-003**		**0.0585**	**0.0585**		**0.0550**	**0.0550**	**0.0000**	**92.7291**	**92.7291**	**0.0227**	**0.0000**	**93.2971**

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0182	0.4633	0.1274	9.6000e-004	0.0230	3.6000e-003	0.0266	6.6500e-003	3.4500e-003	0.0101	0.0000	92.9044	92.9044	7.6600e-003	0.0000	93.0958
Worker	0.0703	0.0557	0.5342	1.4100e-003	0.1320	9.7000e-004	0.1330	0.0351	9.0000e-004	0.0360	0.0000	127.0188	127.0188	4.3800e-003	0.0000	127.1284
Total	**0.0886**	**0.5190**	**0.6617**	**2.3700e-003**	**0.1550**	**4.5700e-003**	**0.1596**	**0.0417**	**4.3500e-003**	**0.0461**	**0.0000**	**219.9231**	**219.9231**	**0.0120**	**0.0000**	**220.2241**

3.5 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	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	**0.3081**	**2.7508**	**2.2399**	**3.5100e-003**		**0.1683**	**0.1683**		**0.1583**	**0.1583**	**0.0000**	**306.8110**	**306.8110**	**0.0747**	**0.0000**	**308.6795**

3.5 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	0.0544	1.4578	0.3917	3.1700e-003	0.0771	0.0101	0.0872	0.0223	9.6500e-003	0.0319	0.0000	308.5717	308.5717	0.0248	0.0000	309.1908
Worker	0.2171	0.1666	1.6113	4.5600e-003	0.4416	3.2200e-003	0.4449	0.1174	2.9700e-003	0.1203	0.0000	412.2045	412.2045	0.0133	0.0000	412.5359
Total	**0.2715**	**1.6244**	**2.0030**	**7.7300e-003**	**0.5187**	**0.0133**	**0.5320**	**0.1396**	**0.0126**	**0.1522**	**0.0000**	**720.7762**	**720.7762**	**0.0380**	**0.0000**	**721.7267**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	**0.3081**	**2.7508**	**2.2399**	**3.5100e-003**		**0.1683**	**0.1683**		**0.1583**	**0.1583**	**0.0000**	**306.8106**	**306.8106**	**0.0747**	**0.0000**	**308.6792**

3.5 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	0.0544	1.4578	0.3917	3.1700e-003	0.0771	0.0101	0.0872	0.0223	9.6500e-003	0.0319	0.0000	308.5717	308.5717	0.0248	0.0000	309.1908
Worker	0.2171	0.1666	1.6113	4.5600e-003	0.4416	3.2200e-003	0.4449	0.1174	2.9700e-003	0.1203	0.0000	412.2045	412.2045	0.0133	0.0000	412.5359
Total	**0.2715**	**1.6244**	**2.0030**	**7.7300e-003**	**0.5187**	**0.0133**	**0.5320**	**0.1396**	**0.0126**	**0.1522**	**0.0000**	**720.7762**	**720.7762**	**0.0380**	**0.0000**	**721.7267**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4091**	**303.4091**	**0.0740**	**0.0000**	**305.2596**

3.5 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	0.0444	1.3289	0.3531	3.1600e-003	0.0774	6.4800e-003	0.0839	0.0223	6.2000e-003	0.0285	0.0000	307.6361	307.6361	0.0236	0.0000	308.2256
Worker	0.2038	0.1509	1.4793	4.4300e-003	0.4433	3.1900e-003	0.4465	0.1178	2.9400e-003	0.1207	0.0000	400.7257	400.7257	0.0120	0.0000	401.0265
Total	**0.2482**	**1.4798**	**1.8324**	**7.5900e-003**	**0.5207**	**9.6700e-003**	**0.5304**	**0.1401**	**9.1400e-003**	**0.1493**	**0.0000**	**708.3617**	**708.3617**	**0.0356**	**0.0000**	**709.2520**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4087**	**303.4087**	**0.0740**	**0.0000**	**305.2592**

3.5 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	0.0444	1.3289	0.3531	3.1600e-003	0.0774	6.4800e-003	0.0839	0.0223	6.2000e-003	0.0285	0.0000	307.6361	307.6361	0.0236	0.0000	308.2256
Worker	0.2038	0.1509	1.4793	4.4300e-003	0.4433	3.1900e-003	0.4465	0.1178	2.9400e-003	0.1207	0.0000	400.7257	400.7257	0.0120	0.0000	401.0265
Total	**0.2482**	**1.4798**	**1.8324**	**7.5900e-003**	**0.5207**	**9.6700e-003**	**0.5304**	**0.1401**	**9.1400e-003**	**0.1493**	**0.0000**	**708.3617**	**708.3617**	**0.0356**	**0.0000**	**709.2520**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1321	1.2115	1.1520	1.8700e-003		0.0666	0.0666		0.0626	0.0626	0.0000	160.9879	160.9879	0.0388	0.0000	161.9589
Total	**0.1321**	**1.2115**	**1.1520**	**1.8700e-003**		**0.0666**	**0.0666**		**0.0626**	**0.0626**	**0.0000**	**160.9879**	**160.9879**	**0.0388**	**0.0000**	**161.9589**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0191	0.6357	0.1695	1.6600e-003	0.0411	1.3500e-003	0.0424	0.0119	1.2900e-003	0.0131	0.0000	161.7137	161.7137	0.0120	0.0000	162.0138
Worker	0.1020	0.0727	0.7327	2.2700e-003	0.2352	1.6600e-003	0.2369	0.0625	1.5300e-003	0.0640	0.0000	205.4563	205.4563	5.8900e-003	0.0000	205.6035
Total	**0.1211**	**0.7084**	**0.9022**	**3.9300e-003**	**0.2763**	**3.0100e-003**	**0.2793**	**0.0744**	**2.8200e-003**	**0.0772**	**0.0000**	**367.1700**	**367.1700**	**0.0179**	**0.0000**	**367.6173**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1321	1.2115	1.1520	1.8700e-003		0.0666	0.0666		0.0626	0.0626	0.0000	160.9877	160.9877	0.0388	0.0000	161.9587
Total	**0.1321**	**1.2115**	**1.1520**	**1.8700e-003**		**0.0666**	**0.0666**		**0.0626**	**0.0626**	**0.0000**	**160.9877**	**160.9877**	**0.0388**	**0.0000**	**161.9587**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0191	0.6357	0.1695	1.6600e-003	0.0411	1.3500e-003	0.0424	0.0119	1.2900e-003	0.0131	0.0000	161.7137	161.7137	0.0120	0.0000	162.0138
Worker	0.1020	0.0727	0.7327	2.2700e-003	0.2352	1.6600e-003	0.2369	0.0625	1.5300e-003	0.0640	0.0000	205.4563	205.4563	5.8900e-003	0.0000	205.6035
Total	**0.1211**	**0.7084**	**0.9022**	**3.9300e-003**	**0.2763**	**3.0100e-003**	**0.2793**	**0.0744**	**2.8200e-003**	**0.0772**	**0.0000**	**367.1700**	**367.1700**	**0.0179**	**0.0000**	**367.6173**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0345	0.3553	0.4030	6.3000e-004		0.0186	0.0186		0.0172	0.0172	0.0000	55.0646	55.0646	0.0178	0.0000	55.5098
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0345**	**0.3553**	**0.4030**	**6.3000e-004**		**0.0186**	**0.0186**		**0.0172**	**0.0172**	**0.0000**	**55.0646**	**55.0646**	**0.0178**	**0.0000**	**55.5098**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	1.0200e-003	0.0103	3.0000e-005	3.3100e-003	2.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.8897	2.8897	8.0000e-005	0.0000	2.8917
Total	**1.4300e-003**	**1.0200e-003**	**0.0103**	**3.0000e-005**	**3.3100e-003**	**2.0000e-005**	**3.3300e-003**	**8.8000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.8897**	**2.8897**	**8.0000e-005**	**0.0000**	**2.8917**

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	tons/yr										MT/yr					
Off-Road	0.0345	0.3553	0.4030	6.3000e-004		0.0186	0.0186		0.0172	0.0172	0.0000	55.0645	55.0645	0.0178	0.0000	55.5097
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0345**	**0.3553**	**0.4030**	**6.3000e-004**		**0.0186**	**0.0186**		**0.0172**	**0.0172**	**0.0000**	**55.0645**	**55.0645**	**0.0178**	**0.0000**	**55.5097**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	1.0200e-003	0.0103	3.0000e-005	3.3100e-003	2.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.8897	2.8897	8.0000e-005	0.0000	2.8917
Total	**1.4300e-003**	**1.0200e-003**	**0.0103**	**3.0000e-005**	**3.3100e-003**	**2.0000e-005**	**3.3300e-003**	**8.8000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.8897**	**2.8897**	**8.0000e-005**	**0.0000**	**2.8917**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	10.0325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0200e-003	0.0420	0.0500	8.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	7.0215	7.0215	4.8000e-004	0.0000	7.0335
Total	**10.0386**	**0.0420**	**0.0500**	**8.0000e-005**		**2.5900e-003**	**2.5900e-003**		**2.5900e-003**	**2.5900e-003**	**0.0000**	**7.0215**	**7.0215**	**4.8000e-004**	**0.0000**	**7.0335**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0300e-003	5.7300e-003	0.0577	1.8000e-004	0.0185	1.3000e-004	0.0187	4.9200e-003	1.2000e-004	5.0400e-003	0.0000	16.1821	16.1821	4.6000e-004	0.0000	16.1937
Total	**8.0300e-003**	**5.7300e-003**	**0.0577**	**1.8000e-004**	**0.0185**	**1.3000e-004**	**0.0187**	**4.9200e-003**	**1.2000e-004**	**5.0400e-003**	**0.0000**	**16.1821**	**16.1821**	**4.6000e-004**	**0.0000**	**16.1937**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	10.0325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0200e-003	0.0420	0.0500	8.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	7.0214	7.0214	4.8000e-004	0.0000	7.0335
Total	**10.0386**	**0.0420**	**0.0500**	**8.0000e-005**		**2.5900e-003**	**2.5900e-003**		**2.5900e-003**	**2.5900e-003**	**0.0000**	**7.0214**	**7.0214**	**4.8000e-004**	**0.0000**	**7.0335**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0300e-003	5.7300e-003	0.0577	1.8000e-004	0.0185	1.3000e-004	0.0187	4.9200e-003	1.2000e-004	5.0400e-003	0.0000	16.1821	16.1821	4.6000e-004	0.0000	16.1937
Total	**8.0300e-003**	**5.7300e-003**	**0.0577**	**1.8000e-004**	**0.0185**	**1.3000e-004**	**0.0187**	**4.9200e-003**	**1.2000e-004**	**5.0400e-003**	**0.0000**	**16.1821**	**16.1821**	**4.6000e-004**	**0.0000**	**16.1937**

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	3.1678	13.9872	52.7277	0.2608	32.5202	0.1269	32.6471	8.7053	0.1180	8.8233	0.0000	24,271.9877	24,271.9877	1.0794	0.0000	24,298.9737
Unmitigated	3.1678	13.9872	52.7277	0.2608	32.5202	0.1269	32.6471	8.7053	0.1180	8.8233	0.0000	24,271.9877	24,271.9877	1.0794	0.0000	24,298.9737

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
General Light Industry	1,719.32	1,719.32	1719.32	18,643,582	18,643,582
Strip Mall	6,241.72	6,241.72	6241.72	67,682,443	67,682,443
Total	7,961.04	7,961.04	7,961.04	86,326,025	86,326,025

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	0.00	29.79	0.00	0.00	100.00	0.00	100	0	0
Strip Mall	0.00	29.79	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,592.9193	1,592.9193	0.0641	0.0133	1,598.4753
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,592.9193	1,592.9193	0.0641	0.0133	1,598.4753
NaturalGas Mitigated	0.0445	0.3851	0.1966	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.5132	440.5132	8.4400e-003	8.0800e-003	443.1309
NaturalGas Unmitigated	0.0445	0.3851	0.1966	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.5132	440.5132	8.4400e-003	8.0800e-003	443.1309

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					
Condo/Townhouse	6.64488e+006	0.0358	0.3062	0.1303	1.9500e-003		0.0248	0.0248		0.0248	0.0248	0.0000	354.5959	354.5959	6.8000e-003	6.5000e-003	356.7031
General Light Industry	1.32591e+006	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.7556	70.7556	1.3600e-003	1.3000e-003	71.1760
Strip Mall	284120	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	15.1617	15.1617	2.9000e-004	2.8000e-004	15.2518
Total		**0.0445**	**0.3851**	**0.1966**	**2.4200e-003**		**0.0308**	**0.0308**		**0.0308**	**0.0308**	**0.0000**	**440.5132**	**440.5132**	**8.4500e-003**	**8.0800e-003**	**443.1309**

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					
Condo/Townhouse	6.64488e+006	0.0358	0.3062	0.1303	1.9500e-003		0.0248	0.0248		0.0248	0.0248	0.0000	354.5959	354.5959	6.8000e-003	6.5000e-003	356.7031
General Light Industry	1.32591e+006	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.7556	70.7556	1.3600e-003	1.3000e-003	71.1760
Strip Mall	284120	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	15.1617	15.1617	2.9000e-004	2.8000e-004	15.2518
Total		**0.0445**	**0.3851**	**0.1966**	**2.4200e-003**		**0.0308**	**0.0308**		**0.0308**	**0.0308**	**0.0000**	**440.5132**	**440.5132**	**8.4500e-003**	**8.0800e-003**	**443.1309**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	2.32078e+006	758.4508	0.0305	6.3200e-003	761.0962
General Light Industry	953140	311.4946	0.0125	2.5900e-003	312.5811
Strip Mall	1.60024e+006	522.9739	0.0211	4.3600e-003	524.7980
Total		**1,592.9193**	**0.0641**	**0.0133**	**1,598.4753**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	2.32078e+006	758.4508	0.0305	6.3200e-003	761.0962
General Light Industry	953140	311.4946	0.0125	2.5900e-003	312.5811
Strip Mall	1.60024e+006	522.9739	0.0211	4.3600e-003	524.7980
Total		**1,592.9193**	**0.0641**	**0.0133**	**1,598.4753**

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	32.8443	0.6056	39.2040	0.0650		5.0362	5.0362		5.0362	5.0362	477.2265	205.7497	682.9761	0.4458	0.0375	705.3059
Unmitigated	32.8443	0.6056	39.2040	0.0650		5.0362	5.0362		5.0362	5.0362	477.2265	205.7497	682.9761	0.4458	0.0375	705.3059

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7499					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	28.9887	0.5661	35.7835	0.0648		5.0172	5.0172		5.0172	5.0172	477.2265	200.1418	677.3683	0.4404	0.0375	699.5645
Landscaping	0.1024	0.0395	3.4206	1.8000e-004		0.0190	0.0190		0.0190	0.0190	0.0000	5.6078	5.6078	5.3500e-003	0.0000	5.7415
Total	**32.8443**	**0.6056**	**39.2040**	**0.0650**		**5.0362**	**5.0362**		**5.0362**	**5.0362**	**477.2265**	**205.7497**	**682.9761**	**0.4458**	**0.0375**	**705.3059**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7499					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	28.9887	0.5661	35.7835	0.0648		5.0172	5.0172		5.0172	5.0172	477.2265	200.1418	677.3683	0.4404	0.0375	699.5645
Landscaping	0.1024	0.0395	3.4206	1.8000e-004		0.0190	0.0190		0.0190	0.0190	0.0000	5.6078	5.6078	5.3500e-003	0.0000	5.7415
Total	**32.8443**	**0.6056**	**39.2040**	**0.0650**		**5.0362**	**5.0362**		**5.0362**	**5.0362**	**477.2265**	**205.7497**	**682.9761**	**0.4458**	**0.0375**	**705.3059**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	313.5889	1.7341	0.0431	369.7952
Unmitigated	391.9861	2.1676	0.0539	462.2440

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	30.1012 / 18.9768	206.5434	0.9888	0.0248	238.6533
General Light Industry	26.5244 / 0	121.2862	0.8688	0.0214	149.3689
Strip Mall	9.43758 / 5.78432	64.1566	0.3100	7.7700e-003	74.2218
Total		**391.9861**	**2.1676**	**0.0539**	**462.2440**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	24.0809 / 15.1815	165.2347	0.7910	0.0198	190.9226
General Light Industry	21.2195 / 0	97.0289	0.6951	0.0171	119.4951
Strip Mall	7.55006 / 4.62746	51.3252	0.2480	6.2200e-003	59.3775
Total		**313.5889**	**1.7341**	**0.0431**	**369.7952**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	49.5836	2.9303	0.0000	122.8412
Unmitigated	99.1672	5.8606	0.0000	245.6825

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	212.52	43.1396	2.5495	0.0000	106.8766
General Light Industry	142.23	28.8714	1.7063	0.0000	71.5277
Strip Mall	133.78	27.1561	1.6049	0.0000	67.2782
Total		**99.1672**	**5.8606**	**0.0000**	**245.6825**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	106.26	21.5698	1.2747	0.0000	53.4383
General Light Industry	71.115	14.4357	0.8531	0.0000	35.7638
Strip Mall	66.89	13.5781	0.8024	0.0000	33.6391
Total		**49.5836**	**2.9303**	**0.0000**	**122.8412**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

BASASP - Existing Proposed (2035)

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	672.00	Dwelling Unit	42.00	672,000.00	1922
Enclosed Parking with Elevator	0.40	1000sqft	0.01	400.00	0
Gasoline/Service Station	18.00	Pump	0.06	2,541.15	0
General Light Industry	0.00	1000sqft	0.00	0.00	0
Medical Office Building	43.19	1000sqft	0.99	43,192.00	0
Single Family Housing	2.00	Dwelling Unit	0.65	3,600.00	6
Strip Mall	184.59	1000sqft	4.24	184,588.00	0
Unrefrigerated Warehouse-No Rail	308.75	1000sqft	7.09	308,746.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

BASASP - Existing Proposed (2035) - San Diego County, Annual

Project Characteristics -

Land Use -

Construction Phase - No Construction

Vehicle Trips - KHA2017

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	0.00
tblConstructionPhase	PhaseEndDate	3/17/2034	12/9/2033
tblEnergyUse	LightingElect	2.63	2.63
tblEnergyUse	T24E	257.40	257.40
tblEnergyUse	T24E	3.92	3.92
tblEnergyUse	T24E	550.61	550.61
tblEnergyUse	T24NG	11,601.59	11,601.59
tblEnergyUse	T24NG	24,260.55	24,260.55
tblVehicleTrips	CC_TL	7.30	18.56
tblVehicleTrips	CC_TL	7.30	18.56
tblVehicleTrips	CC_TL	7.30	18.56
tblVehicleTrips	CC_TL	7.30	18.56
tblVehicleTrips	CC_TL	7.30	18.56
tblVehicleTrips	CC_TL	7.30	18.56
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CC_TTP	79.00	100.00
tblVehicleTrips	CC_TTP	28.00	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CC_TTP	0.00	100.00

tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	2.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	29.60	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	18.56
tblVehicleTrips	HW_TL	10.80	18.56
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	5.67	6.00
tblVehicleTrips	ST_TR	0.00	77.50
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	14.99
tblVehicleTrips	ST_TR	8.96	49.99
tblVehicleTrips	ST_TR	9.91	9.00
tblVehicleTrips	ST_TR	42.04	80.46
tblVehicleTrips	ST_TR	1.68	2.00
tblVehicleTrips	SU_TR	4.84	6.00
tblVehicleTrips	SU_TR	0.00	77.50
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	14.99
tblVehicleTrips	SU_TR	1.55	49.99
tblVehicleTrips	SU_TR	8.62	9.00

tblVehicleTrips	SU_TR	20.43	80.46
tblVehicleTrips	SU_TR	1.68	2.00
tblVehicleTrips	WD_TR	5.81	6.00
tblVehicleTrips	WD_TR	0.00	77.50
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	14.99
tblVehicleTrips	WD_TR	36.13	49.99
tblVehicleTrips	WD_TR	9.52	9.00
tblVehicleTrips	WD_TR	44.32	80.46
tblVehicleTrips	WD_TR	1.68	2.00

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					
2033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	48.8659	0.8835	57.1956	0.0948		7.3472	7.3472		7.3472	7.3472	696.2135	300.1665	996.3800	0.6503	0.0548	1,028.9566
Energy	0.0647	0.5588	0.2808	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	3,167.5648	3,167.5648	0.1140	0.0328	3,180.1836
Mobile	6.0721	27.4406	93.1009	0.4478	55.2513	0.2202	55.4715	14.7901	0.2048	14.9950	0.0000	41,704.7481	41,704.7481	1.8886	0.0000	41,751.9634
Waste						0.0000	0.0000		0.0000	0.0000	258.1578	0.0000	258.1578	15.2567	0.0000	639.5751
Water						0.0000	0.0000		0.0000	0.0000	42.7163	708.1872	750.9035	4.4159	0.1095	893.9293
Total	**55.0026**	**28.8828**	**150.5772**	**0.5462**	**55.2513**	**7.6121**	**62.8634**	**14.7901**	**7.5967**	**22.3869**	**997.0876**	**45,880.6666**	**46,877.7542**	**22.3255**	**0.1970**	**47,494.6080**

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	48.8659	0.8835	57.1956	0.0948		7.3472	7.3472		7.3472	7.3472	696.2135	300.1665	996.3800	0.6503	0.0548	1,028.9566
Energy	0.0647	0.5588	0.2808	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	3,167.5648	3,167.5648	0.1140	0.0328	3,180.1836
Mobile	6.0721	27.4406	93.1009	0.4478	55.2513	0.2202	55.4715	14.7901	0.2048	14.9950	0.0000	41,704.7481	41,704.7481	1.8886	0.0000	41,751.9634
Waste						0.0000	0.0000		0.0000	0.0000	258.1578	0.0000	258.1578	15.2567	0.0000	639.5751
Water						0.0000	0.0000		0.0000	0.0000	42.7163	708.1872	750.9035	4.4159	0.1095	893.9293
Total	**55.0026**	**28.8828**	**150.5772**	**0.5462**	**55.2513**	**7.6121**	**62.8634**	**14.7901**	**7.5967**	**22.3869**	**997.0876**	**45,880.6666**	**46,877.7542**	**22.3255**	**0.1970**	**47,494.6080**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/10/2033	12/9/2033	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

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

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.0721	27.4406	93.1009	0.4478	55.2513	0.2202	55.4715	14.7901	0.2048	14.9950	0.0000	41,704.7481	41,704.7481	1.8886	0.0000	41,751.9634
Unmitigated	6.0721	27.4406	93.1009	0.4478	55.2513	0.2202	55.4715	14.7901	0.2048	14.9950	0.0000	41,704.7481	41,704.7481	1.8886	0.0000	41,751.9634

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	4,032.00	4,032.00	4032.00	27,239,547	27,239,547
Enclosed Parking with Elevator	31.00	31.00	31.00	209,431	209,431
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Medical Office Building	2,159.17	2,159.17	2159.17	14,586,994	14,586,994
Single Family Housing	18.00	18.00	18.00	121,605	121,605
Strip Mall	14,851.95	14,851.95	14851.95	100,337,401	100,337,401
Unrefrigerated Warehouse-No Rail	617.49	617.49	617.49	4,171,677	4,171,677
Total	21,709.61	21,709.61	21,709.61	146,666,655	146,666,655

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	18.56	7.30	7.50	100.00	0.00	0.00	100	0	0
Enclosed Parking with Elevator	9.50	18.56	7.30	0.00	100.00	0.00	100	0	0
Gasoline/Service Station	9.50	18.56	7.30	0.00	100.00	0.00	100	0	0
General Light Industry	9.50	18.56	7.30	0.00	100.00	0.00	100	0	0
Medical Office Building	9.50	18.56	7.30	0.00	100.00	0.00	100	0	0
Single Family Housing	18.56	7.30	7.50	100.00	0.00	0.00	100	0	0
Strip Mall	9.50	18.56	7.30	0.00	100.00	0.00	100	0	0
Unrefrigerated Warehouse-No	9.50	18.56	7.30	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking with Elevator	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Gasoline/Service Station	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Medical Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Unrefrigerated Warehouse-No Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

BASASP - Existing Proposed (2035) - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,527.6877	2,527.6877	0.1017	0.0211	2,536.5041
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,527.6877	2,527.6877	0.1017	0.0211	2,536.5041
NaturalGas Mitigated	0.0647	0.5588	0.2808	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	639.8771	639.8771	0.0123	0.0117	643.6795
NaturalGas Unmitigated	0.0647	0.5588	0.2808	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	639.8771	639.8771	0.0123	0.0117	643.6795

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					
Condo/Townhouse	9.81333e+006	0.0529	0.4522	0.1924	2.8900e-003		0.0366	0.0366		0.0366	0.0366	0.0000	523.6764	523.6764	0.0100	9.6000e-003	526.7884
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	31230.7	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Light Industry	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
Medical Office Building	1.0176e+006	5.4900e-003	0.0499	0.0419	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3032	54.3032	1.0400e-003	1.0000e-003	54.6259
Single Family Housing	60159.1	3.2000e-004	2.7700e-003	1.1800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.2103	3.2103	6.0000e-005	6.0000e-005	3.2294
Strip Mall	444857	2.4000e-003	0.0218	0.0183	1.3000e-004		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	23.7393	23.7393	4.6000e-004	4.4000e-004	23.8803
Unrefrigerated Warehouse-No Rail	623667	3.3600e-003	0.0306	0.0257	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.2812	33.2812	6.4000e-004	6.1000e-004	33.4790
Total		**0.0647**	**0.5587**	**0.2808**	**3.5300e-003**		**0.0447**	**0.0447**		**0.0447**	**0.0447**	**0.0000**	**639.8771**	**639.8771**	**0.0123**	**0.0117**	**643.6795**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	9.81333e+006	0.0529	0.4522	0.1924	2.8900e-003		0.0366	0.0366		0.0366	0.0366	0.0000	523.6764	523.6764	0.0100	9.6000e-003	526.7884
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	31230.7	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Light Industry	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
Medical Office Building	1.0176e+006	5.4900e-003	0.0499	0.0419	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3032	54.3032	1.0400e-003	1.0000e-003	54.6259
Single Family Housing	60159.1	3.2000e-004	2.7700e-003	1.1800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.2103	3.2103	6.0000e-005	6.0000e-005	3.2294
Strip Mall	444857	2.4000e-003	0.0218	0.0183	1.3000e-004		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	23.7393	23.7393	4.6000e-004	4.4000e-004	23.8803
Unrefrigerated Warehouse-No Rail	623667	3.3600e-003	0.0306	0.0257	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.2812	33.2812	6.4000e-004	6.1000e-004	33.4790
Total		**0.0647**	**0.5587**	**0.2808**	**3.5300e-003**		**0.0447**	**0.0447**		**0.0447**	**0.0447**	**0.0000**	**639.8771**	**639.8771**	**0.0123**	**0.0117**	**643.6795**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	2.94666e+006	962.9931	0.0388	8.0200e-003	966.3519
Enclosed Parking with Elevator	2695.59	0.8809	4.0000e-005	1.0000e-005	0.8840
Gasoline/Service Station	23836	7.7898	3.1000e-004	6.0000e-005	7.8170
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	679842	222.1784	8.9400e-003	1.8500e-003	222.9533
Single Family Housing	14498.5	4.7382	1.9000e-004	4.0000e-005	4.7548
Strip Mall	2.73006e+006	892.2064	0.0359	7.4300e-003	895.3183
Unrefrigerated Warehouse-No Rail	1.33687e+006	436.9009	0.0176	3.6400e-003	438.4248
Total		**2,527.6877**	**0.1017**	**0.0211**	**2,536.5041**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	2.94666e+006	962.9931	0.0388	8.0200e-003	966.3519
Enclosed Parking with Elevator	2695.59	0.8809	4.0000e-005	1.0000e-005	0.8840
Gasoline/Service Station	23836	7.7898	3.1000e-004	6.0000e-005	7.8170
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	679842	222.1784	8.9400e-003	1.8500e-003	222.9533
Single Family Housing	14498.5	4.7382	1.9000e-004	4.0000e-005	4.7548
Strip Mall	2.73006e+006	892.2064	0.0359	7.4300e-003	895.3183
Unrefrigerated Warehouse-No Rail	1.33687e+006	436.9009	0.0176	3.6400e-003	438.4248
Total		**2,527.6877**	**0.1017**	**0.0211**	**2,536.5041**

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	48.8659	0.8835	57.1956	0.0948		7.3472	7.3472		7.3472	7.3472	696.2135	300.1665	996.3800	0.6503	0.0548	1,028.9566
Unmitigated	48.8659	0.8835	57.1956	0.0948		7.3472	7.3472		7.3472	7.3472	696.2135	300.1665	996.3800	0.6503	0.0548	1,028.9566

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.6815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.7439					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	42.2909	0.8259	52.2036	0.0946		7.3194	7.3194		7.3194	7.3194	696.2135	291.9818	988.1953	0.6425	0.0548	1,020.5767
Landscaping	0.1496	0.0576	4.9920	2.6000e-004		0.0278	0.0278		0.0278	0.0278	0.0000	8.1847	8.1847	7.8100e-003	0.0000	8.3799
Total	**48.8659**	**0.8835**	**57.1956**	**0.0948**		**7.3472**	**7.3472**		**7.3472**	**7.3472**	**696.2135**	**300.1665**	**996.3800**	**0.6503**	**0.0548**	**1,028.9566**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.6815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.7439					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	42.2909	0.8259	52.2036	0.0946		7.3194	7.3194		7.3194	7.3194	696.2135	291.9818	988.1953	0.6425	0.0548	1,020.5767
Landscaping	0.1496	0.0576	4.9920	2.6000e-004		0.0278	0.0278		0.0278	0.0278	0.0000	8.1847	8.1847	7.8100e-003	0.0000	8.3799
Total	**48.8659**	**0.8835**	**57.1956**	**0.0948**		**7.3472**	**7.3472**		**7.3472**	**7.3472**	**696.2135**	**300.1665**	**996.3800**	**0.6503**	**0.0548**	**1,028.9566**

7.0 Water Detail

7.1 Mitigation Measures Water

BASASP - Existing Proposed (2035) - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	750.9035	4.4159	0.1095	893.9293
Unmitigated	750.9035	4.4159	0.1095	893.9293

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	43.7835 / 27.6026	300.4267	1.4382	0.0361	347.1321
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0.239074 / 0.146529	1.6252	7.8500e-003	2.0000e-004	1.8802
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	5.4195 / 1.03229	28.5295	0.1777	4.3900e-003	34.2804
Single Family Housing	0.130308 / 0.0821507	0.8941	4.2800e-003	1.1000e-004	1.0331
Strip Mall	13.673 / 8.38025	92.9492	0.4491	0.0113	107.5317
Unrefrigerated Warehouse-No Rail	71.3984 / 0	326.4787	2.3388	0.0575	402.0718
Total		**750.9035**	**4.4159**	**0.1095**	**893.9293**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	43.7835 / 27.6026	300.4267	1.4382	0.0361	347.1321
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0.239074 / 0.146529	1.6252	7.8500e-003	2.0000e-004	1.8802
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	5.4195 / 1.03229	28.5295	0.1777	4.3900e-003	34.2804
Single Family Housing	0.130308 / 0.0821507	0.8941	4.2800e-003	1.1000e-004	1.0331
Strip Mall	13.673 / 8.38025	92.9492	0.4491	0.0113	107.5317
Unrefrigerated Warehouse-No Rail	71.3984 / 0	326.4787	2.3388	0.0575	402.0718
Total		**750.9035**	**4.4159**	**0.1095**	**893.9293**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	258.1578	15.2567	0.0000	639.5751
Unmitigated	258.1578	15.2567	0.0000	639.5751

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	309.12	62.7486	3.7083	0.0000	155.4569
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	9.7	1.9690	0.1164	0.0000	4.8781
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	466.45	94.6851	5.5957	0.0000	234.5784
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Strip Mall	193.82	39.3437	2.3252	0.0000	97.4724
Unrefrigerated Warehouse-No Rail	290.22	58.9120	3.4816	0.0000	145.9521
Total		**258.1578**	**15.2567**	**0.0000**	**639.5751**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	309.12	62.7486	3.7083	0.0000	155.4569
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	9.7	1.9690	0.1164	0.0000	4.8781
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	466.45	94.6851	5.5957	0.0000	234.5784
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Strip Mall	193.82	39.3437	2.3252	0.0000	97.4724
Unrefrigerated Warehouse-No Rail	290.22	58.9120	3.4816	0.0000	145.9521
Total		**258.1578**	**15.2567**	**0.0000**	**639.5751**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

BASASP - New Proposed (2035)

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	114.70	1000sqft	2.63	114,698.00	0
Condo/Townhouse	4,055.00	Dwelling Unit	253.44	4,055,000.00	11597
Strip Mall	383.58	1000sqft	8.81	383,577.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Vehicle Trips - KHA2017

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	CC_TL	7.30	18.56

tblVehicleTrips	CC_TL	7.30	18.56
tblVehicleTrips	CC_TTP	28.00	100.00
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	18.56
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	5.67	0.33
tblVehicleTrips	ST_TR	1.32	14.99
tblVehicleTrips	ST_TR	42.04	80.46

tblVehicleTrips	SU_TR	4.84	0.33
tblVehicleTrips	SU_TR	0.68	14.99
tblVehicleTrips	SU_TR	20.43	80.46
tblVehicleTrips	WD_TR	5.81	0.33
tblVehicleTrips	WD_TR	6.97	14.99
tblVehicleTrips	WD_TR	44.32	80.46

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4411	4.3547	2.9023	5.2400e-003	0.0158	0.2174	0.2332	4.1900e-003	0.2021	0.2063	0.0000	459.6256	459.6256	0.1262	0.0000	462.7794
2021	0.5083	5.2455	3.0358	5.6700e-003	2.3906	0.2563	2.6469	1.0365	0.2361	1.2725	0.0000	499.0444	499.0444	0.1539	0.0000	502.8911
2022	0.4798	5.0555	3.8357	8.2600e-003	1.4201	0.2127	1.6328	0.5024	0.1957	0.6981	0.0000	726.4957	726.4957	0.2298	0.0000	732.2399
2023	0.8794	5.7405	6.9572	0.0238	2.4993	0.1603	2.6596	0.7092	0.1483	0.8575	0.0000	2,185.9475	2,185.9475	0.2390	0.0000	2,191.9212
2024	1.5378	7.5990	11.7955	0.0487	3.6949	0.1080	3.8029	0.9921	0.1012	1.0934	0.0000	4,520.7517	4,520.7517	0.2488	0.0000	4,526.9706
2025	1.4603	7.3097	11.1688	0.0473	3.6808	0.0959	3.7767	0.9884	0.0898	1.0782	0.0000	4,391.6569	4,391.6569	0.2414	0.0000	4,397.6914
2026	1.4097	7.1892	10.6913	0.0462	3.6808	0.0950	3.7758	0.9884	0.0891	1.0774	0.0000	4,293.6794	4,293.6794	0.2363	0.0000	4,299.5864
2027	1.3595	7.0772	10.2690	0.0452	3.6808	0.0938	3.7746	0.9884	0.0879	1.0763	0.0000	4,206.9994	4,206.9994	0.2319	0.0000	4,212.7958

BASASP - New Proposed (2035) - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	1.3023	6.9551	9.8703	0.0442	3.6667	0.0919	3.7586	0.9846	0.0861	1.0707	0.0000	4,115.4771	4,115.4771	0.2272	0.0000	4,121.1563
2029	1.2509	6.8878	9.5636	0.0436	3.6808	0.0908	3.7716	0.9884	0.0852	1.0735	0.0000	4,064.0232	4,064.0232	0.2247	0.0000	4,069.6405
2030	1.1823	6.2122	9.2501	0.0434	3.6808	0.0400	3.7208	0.9884	0.0385	1.0269	0.0000	4,045.7134	4,045.7134	0.1642	0.0000	4,049.8185
2031	1.1182	6.1375	8.9440	0.0429	3.6808	0.0388	3.7196	0.9884	0.0375	1.0258	0.0000	3,994.5601	3,994.5601	0.1614	0.0000	3,998.5945
2032	1.0656	6.0961	8.7158	0.0425	3.6949	0.0379	3.7328	0.9921	0.0366	1.0288	0.0000	3,965.9135	3,965.9135	0.1597	0.0000	3,969.9050
2033	1.0084	5.9930	8.4251	0.0418	3.6667	0.0367	3.7034	0.9846	0.0354	1.0200	0.0000	3,898.2700	3,898.2700	0.1565	0.0000	3,902.1817
2034	0.9663	5.9444	8.2090	0.0414	3.6667	0.0358	3.7025	0.9846	0.0346	1.0192	0.0000	3,866.3725	3,866.3725	0.1547	0.0000	3,870.2389
2035	0.9216	5.8266	8.0493	0.0413	3.6808	0.0276	3.7084	0.9884	0.0265	1.0148	0.0000	3,854.3497	3,854.3497	0.1526	0.0000	3,858.1655
2036	0.9251	5.8489	8.0802	0.0414	3.6949	0.0277	3.7226	0.9921	0.0266	1.0187	0.0000	3,869.1173	3,869.1173	0.1532	0.0000	3,872.9478
2037	0.9216	5.8266	8.0493	0.0413	3.6808	0.0276	3.7084	0.9884	0.0265	1.0148	0.0000	3,854.3497	3,854.3497	0.1526	0.0000	3,858.1655
2038	0.9216	5.8266	8.0493	0.0413	3.6808	0.0276	3.7084	0.9884	0.0265	1.0148	0.0000	3,854.3497	3,854.3497	0.1526	0.0000	3,858.1655
2039	0.9181	5.8043	8.0185	0.0411	3.6667	0.0275	3.6942	0.9846	0.0264	1.0110	0.0000	3,839.5820	3,839.5820	0.1521	0.0000	3,843.3833
2040	0.7849	5.6642	7.4517	0.0404	3.6808	0.0228	3.7036	0.9884	0.0219	1.0102	0.0000	3,777.3589	3,777.3589	0.1463	0.0000	3,781.0158
2041	0.4235	2.7834	4.4693	0.0201	1.6446	0.0186	1.6632	0.4416	0.0182	0.4598	0.0000	1,858.4403	1,858.4403	0.0710	0.0000	1,860.2144
2042	16.0677	0.3867	1.7739	3.9400e-003	0.1995	0.0116	0.2110	0.0530	0.0115	0.0645	0.0000	344.5199	344.5199	9.6100e-003	0.0000	344.7601
2043	53.3816	0.1582	0.9934	4.2700e-003	0.6294	2.6000e-003	0.6320	0.1673	2.4600e-003	0.1697	0.0000	385.5354	385.5354	6.7400e-003	0.0000	385.7039
Maximum	**53.3816**	**7.5990**	**11.7955**	**0.0487**	**3.6949**	**0.2563**	**3.8029**	**1.0365**	**0.2361**	**1.2725**	**0.0000**	**4,520.7517**	**4,520.7517**	**0.2488**	**0.0000**	**4,526.9706**

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					
2020	0.4411	4.3547	2.9023	5.2400e-003	0.0158	0.2174	0.2332	4.1900e-003	0.2021	0.2063	0.0000	459.6250	459.6250	0.1262	0.0000	462.7789
2021	0.5083	5.2455	3.0358	5.6700e-003	2.3906	0.2563	2.6469	1.0365	0.2361	1.2725	0.0000	499.0438	499.0438	0.1539	0.0000	502.8905
2022	0.4798	5.0555	3.8357	8.2600e-003	1.4201	0.2127	1.6328	0.5024	0.1957	0.6981	0.0000	726.4949	726.4949	0.2298	0.0000	732.2390
2023	0.8794	5.7405	6.9572	0.0238	2.4993	0.1603	2.6596	0.7092	0.1483	0.8575	0.0000	2,185.9469	2,185.9469	0.2389	0.0000	2,191.9205
2024	1.5378	7.5990	11.7955	0.0487	3.6949	0.1080	3.8029	0.9921	0.1012	1.0934	0.0000	4,520.7514	4,520.7514	0.2488	0.0000	4,526.9703
2025	1.4603	7.3096	11.1688	0.0473	3.6808	0.0959	3.7767	0.9884	0.0898	1.0782	0.0000	4,391.6566	4,391.6566	0.2414	0.0000	4,397.6911
2026	1.4097	7.1892	10.6913	0.0462	3.6808	0.0950	3.7758	0.9884	0.0891	1.0774	0.0000	4,293.6790	4,293.6790	0.2363	0.0000	4,299.5861
2027	1.3595	7.0772	10.2690	0.0452	3.6808	0.0938	3.7746	0.9884	0.0879	1.0763	0.0000	4,206.9991	4,206.9991	0.2319	0.0000	4,212.7955
2028	1.3023	6.9551	9.8703	0.0442	3.6667	0.0919	3.7586	0.9846	0.0861	1.0707	0.0000	4,115.4768	4,115.4768	0.2272	0.0000	4,121.1560
2029	1.2509	6.8878	9.5636	0.0436	3.6808	0.0908	3.7716	0.9884	0.0852	1.0735	0.0000	4,064.0229	4,064.0229	0.2247	0.0000	4,069.6401
2030	1.1823	6.2122	9.2501	0.0434	3.6808	0.0400	3.7208	0.9884	0.0385	1.0269	0.0000	4,045.7130	4,045.7130	0.1642	0.0000	4,049.8181
2031	1.1182	6.1375	8.9440	0.0429	3.6808	0.0388	3.7196	0.9884	0.0375	1.0258	0.0000	3,994.5597	3,994.5597	0.1614	0.0000	3,998.5941
2032	1.0656	6.0961	8.7158	0.0425	3.6949	0.0379	3.7328	0.9921	0.0366	1.0288	0.0000	3,965.9131	3,965.9131	0.1597	0.0000	3,969.9046
2033	1.0084	5.9930	8.4251	0.0418	3.6667	0.0367	3.7034	0.9846	0.0354	1.0200	0.0000	3,898.2696	3,898.2696	0.1565	0.0000	3,902.1813
2034	0.9663	5.9444	8.2090	0.0414	3.6667	0.0358	3.7025	0.9846	0.0346	1.0192	0.0000	3,866.3721	3,866.3721	0.1547	0.0000	3,870.2385

BASASP - New Proposed (2035) - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2035	0.9216	5.8266	8.0493	0.0413	3.6808	0.0276	3.7084	0.9884	0.0265	1.0148	0.0000	3,854.3493	3,854.3493	0.1526	0.0000	3,858.1651
2036	0.9251	5.8489	8.0802	0.0414	3.6949	0.0277	3.7226	0.9921	0.0266	1.0187	0.0000	3,869.1169	3,869.1169	0.1532	0.0000	3,872.9474
2037	0.9216	5.8266	8.0493	0.0413	3.6808	0.0276	3.7084	0.9884	0.0265	1.0148	0.0000	3,854.3493	3,854.3493	0.1526	0.0000	3,858.1651
2038	0.9216	5.8266	8.0493	0.0413	3.6808	0.0276	3.7084	0.9884	0.0265	1.0148	0.0000	3,854.3493	3,854.3493	0.1526	0.0000	3,858.1651
2039	0.9181	5.8043	8.0185	0.0411	3.6667	0.0275	3.6942	0.9846	0.0264	1.0110	0.0000	3,839.5816	3,839.5816	0.1521	0.0000	3,843.3829
2040	0.7849	5.6642	7.4517	0.0404	3.6808	0.0228	3.7036	0.9884	0.0219	1.0102	0.0000	3,777.3585	3,777.3585	0.1463	0.0000	3,781.0154
2041	0.4235	2.7834	4.4693	0.0201	1.6446	0.0186	1.6632	0.4416	0.0182	0.4598	0.0000	1,858.4400	1,858.4400	0.0710	0.0000	1,860.2140
2042	16.0677	0.3867	1.7739	3.9400e-003	0.1995	0.0116	0.2110	0.0530	0.0115	0.0645	0.0000	344.5197	344.5197	9.6100e-003	0.0000	344.7599
2043	53.3816	0.1582	0.9934	4.2700e-003	0.6294	2.6000e-003	0.6320	0.1673	2.4600e-003	0.1697	0.0000	385.5354	385.5354	6.7400e-003	0.0000	385.7039
Maximum	**53.3816**	**7.5990**	**11.7955**	**0.0487**	**3.6949**	**0.2563**	**3.8029**	**1.0365**	**0.2361**	**1.2725**	**0.0000**	**4,520.7514**	**4,520.7514**	**0.2488**	**0.0000**	**4,526.9703**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2020**	**3-31-2020**	1.1901	1.1901
2	**4-1-2020**	**6-30-2020**	1.1897	1.1897
3	**7-1-2020**	**9-30-2020**	1.2027	1.2027
4	**10-1-2020**	**12-31-2020**	1.2031	1.2031
5	**1-1-2021**	**3-31-2021**	1.2414	1.2414
6	**4-1-2021**	**6-30-2021**	1.4459	1.4459

7	**7-1-2021**	**9-30-2021**	1.4617	1.4617
8	**10-1-2021**	**12-31-2021**	1.5932	1.5932
9	**1-1-2022**	**3-31-2022**	1.3689	1.3689
10	**4-1-2022**	**6-30-2022**	1.3837	1.3837
11	**7-1-2022**	**9-30-2022**	1.3989	1.3989
12	**10-1-2022**	**12-31-2022**	1.3993	1.3993
13	**1-1-2023**	**3-31-2023**	1.2198	1.2198
14	**4-1-2023**	**6-30-2023**	1.2329	1.2329
15	**7-1-2023**	**9-30-2023**	1.7970	1.7970
16	**10-1-2023**	**12-31-2023**	2.4110	2.4110
17	**1-1-2024**	**3-31-2024**	2.2977	2.2977
18	**4-1-2024**	**6-30-2024**	2.2380	2.2380
19	**7-1-2024**	**9-30-2024**	2.2626	2.2626
20	**10-1-2024**	**12-31-2024**	2.3229	2.3229
21	**1-1-2025**	**3-31-2025**	2.1895	2.1895
22	**4-1-2025**	**6-30-2025**	2.1569	2.1569
23	**7-1-2025**	**9-30-2025**	2.1806	2.1806
24	**10-1-2025**	**12-31-2025**	2.2381	2.2381
25	**1-1-2026**	**3-31-2026**	2.1463	2.1463
26	**4-1-2026**	**6-30-2026**	2.1155	2.1155
27	**7-1-2026**	**9-30-2026**	2.1387	2.1387
28	**10-1-2026**	**12-31-2026**	2.1940	2.1940
29	**1-1-2027**	**3-31-2027**	2.1052	2.1052
30	**4-1-2027**	**6-30-2027**	2.0763	2.0763
31	**7-1-2027**	**9-30-2027**	2.0991	2.0991
32	**10-1-2027**	**12-31-2027**	2.1520	2.1520
33	**1-1-2028**	**3-31-2028**	2.0904	2.0904

34	**4-1-2028**	**6-30-2028**	2.0406	2.0406
35	**7-1-2028**	**9-30-2028**	2.0630	2.0630
36	**10-1-2028**	**12-31-2028**	2.1134	2.1134
37	**1-1-2029**	**3-31-2029**	2.0288	2.0288
38	**4-1-2029**	**6-30-2029**	2.0042	2.0042
39	**7-1-2029**	**9-30-2029**	2.0262	2.0262
40	**10-1-2029**	**12-31-2029**	2.0739	2.0739
41	**1-1-2030**	**3-31-2030**	1.8436	1.8436
42	**4-1-2030**	**6-30-2030**	1.8200	1.8200
43	**7-1-2030**	**9-30-2030**	1.8400	1.8400
44	**10-1-2030**	**12-31-2030**	1.8846	1.8846
45	**1-1-2031**	**3-31-2031**	1.8073	1.8073
46	**4-1-2031**	**6-30-2031**	1.7865	1.7865
47	**7-1-2031**	**9-30-2031**	1.8061	1.8061
48	**10-1-2031**	**12-31-2031**	1.8475	1.8475
49	**1-1-2032**	**3-31-2032**	1.7952	1.7952
50	**4-1-2032**	**6-30-2032**	1.7571	1.7571
51	**7-1-2032**	**9-30-2032**	1.7764	1.7764
52	**10-1-2032**	**12-31-2032**	1.8149	1.8149
53	**1-1-2033**	**3-31-2033**	1.7477	1.7477
54	**4-1-2033**	**6-30-2033**	1.7315	1.7315
55	**7-1-2033**	**9-30-2033**	1.7505	1.7505
56	**10-1-2033**	**12-31-2033**	1.7865	1.7865
57	**1-1-2034**	**3-31-2034**	1.7237	1.7237
58	**4-1-2034**	**6-30-2034**	1.7094	1.7094
59	**7-1-2034**	**9-30-2034**	1.7282	1.7282
60	**10-1-2034**	**12-31-2034**	1.7620	1.7620

61	**1-1-2035**	**3-31-2035**	1.6759	1.6759
62	**4-1-2035**	**6-30-2035**	1.6627	1.6627
63	**7-1-2035**	**9-30-2035**	1.6810	1.6810
64	**10-1-2035**	**12-31-2035**	1.7131	1.7131
65	**1-1-2036**	**3-31-2036**	1.6945	1.6945
66	**4-1-2036**	**6-30-2036**	1.6627	1.6627
67	**7-1-2036**	**9-30-2036**	1.6810	1.6810
68	**10-1-2036**	**12-31-2036**	1.7131	1.7131
69	**1-1-2037**	**3-31-2037**	1.6759	1.6759
70	**4-1-2037**	**6-30-2037**	1.6627	1.6627
71	**7-1-2037**	**9-30-2037**	1.6810	1.6810
72	**10-1-2037**	**12-31-2037**	1.7131	1.7131
73	**1-1-2038**	**3-31-2038**	1.6759	1.6759
74	**4-1-2038**	**6-30-2038**	1.6627	1.6627
75	**7-1-2038**	**9-30-2038**	1.6810	1.6810
76	**10-1-2038**	**12-31-2038**	1.7131	1.7131
77	**1-1-2039**	**3-31-2039**	1.6759	1.6759
78	**4-1-2039**	**6-30-2039**	1.6627	1.6627
79	**7-1-2039**	**9-30-2039**	1.6810	1.6810
80	**10-1-2039**	**12-31-2039**	1.7131	1.7131
81	**1-1-2040**	**3-31-2040**	1.6150	1.6150
82	**4-1-2040**	**6-30-2040**	1.5899	1.5899
83	**7-1-2040**	**9-30-2040**	1.6074	1.6074
84	**10-1-2040**	**12-31-2040**	1.6327	1.6327
85	**1-1-2041**	**3-31-2041**	1.5972	1.5972
86	**4-1-2041**	**6-30-2041**	1.2898	1.2898
87	**7-1-2041**	**9-30-2041**	0.1544	0.1544

88	**10-1-2041**	**12-31-2041**	0.1545	0.1545
89	**1-1-2042**	**3-31-2042**	0.1511	0.1511
90	**4-1-2042**	**6-30-2042**	0.1527	0.1527
91	**7-1-2042**	**9-30-2042**	2.2384	2.2384
92	**10-1-2042**	**12-31-2042**	13.8555	13.8555
93	**1-1-2043**	**3-31-2043**	13.5543	13.5543
94	**4-1-2043**	**6-30-2043**	13.6991	13.6991
95	**7-1-2043**	**9-30-2043**	13.8497	13.8497
		Highest	13.8555	13.8555

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	280.0368	5.3150	344.0809	0.5706		44.2031	44.2031		44.2031	44.2031	4,188.6435	1,805.8472	5,994.4906	3.9123	0.3295	6,190.4788
Energy	0.3263	2.7943	1.2334	0.0178		0.2254	0.2254		0.2254	0.2254	0.0000	11,771.6451	11,771.6451	0.4057	0.1303	11,820.6286
Mobile	9.4873	42.8745	145.4650	0.6997	86.3272	0.3441	86.6713	23.1088	0.3201	23.4288	0.0000	65,161.3866	65,161.3866	2.9509	0.0000	65,235.1580
Waste						0.0000	0.0000		0.0000	0.0000	489.2671	0.0000	489.2671	28.9149	0.0000	1,212.1385
Water						0.0000	0.0000		0.0000	0.0000	101.2474	2,026.0312	2,127.2785	10.4806	0.2624	2,467.4943
Total	**289.8503**	**50.9838**	**490.7793**	**1.2881**	**86.3272**	**44.7726**	**131.0997**	**23.1088**	**44.7485**	**67.8573**	**4,779.1579**	**80,764.9100**	**85,544.0679**	**46.6643**	**0.7222**	**86,925.8982**

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	280.0368	5.3150	344.0809	0.5706		44.2031	44.2031		44.2031	44.2031	4,188.6435	1,805.8472	5,994.4906	3.9123	0.3295	6,190.4788
Energy	0.3263	2.7943	1.2334	0.0178		0.2254	0.2254		0.2254	0.2254	0.0000	11,771.6451	11,771.6451	0.4057	0.1303	11,820.6286
Mobile	9.4873	42.8745	145.4650	0.6997	86.3272	0.3441	86.6713	23.1088	0.3201	23.4288	0.0000	65,161.3866	65,161.3866	2.9509	0.0000	65,235.1580
Waste						0.0000	0.0000		0.0000	0.0000	244.6335	0.0000	244.6335	14.4574	0.0000	606.0693
Water						0.0000	0.0000		0.0000	0.0000	80.9979	1,620.8249	1,701.8228	8.3845	0.2099	1,973.9954
Total	**289.8503**	**50.9838**	**490.7793**	**1.2881**	**86.3272**	**44.7726**	**131.0997**	**23.1088**	**44.7485**	**67.8573**	**4,514.2749**	**80,359.7038**	**84,873.9787**	**30.1108**	**0.6697**	**85,826.3301**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.54**	**0.50**	**0.78**	**35.47**	**7.27**	**1.26**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	2/23/2021	5	300	
2	Site Preparation	Site Preparation	2/24/2021	11/2/2021	5	180	
3	Grading	Grading	11/3/2021	8/15/2023	5	465	
4	Building Construction	Building Construction	8/16/2023	6/11/2041	5	4650	
5	Paving	Paving	6/12/2041	9/16/2042	5	330	
6	Architectural Coating	Architectural Coating	9/17/2042	12/22/2043	5	330	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1162.5

Acres of Paving: 0

Residential Indoor: 8,211,375; Residential Outdoor: 2,737,125; Non-Residential Indoor: 747,413; Non-Residential Outdoor: 249,138; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	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	130	0.42
Paving	Paving Equipment	2	8.00	132	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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,091.00	515.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	618.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.4339	4.3493	2.8497	5.0800e-003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3818	445.3818	0.1257	0.0000	448.5250
Total	**0.4339**	**4.3493**	**2.8497**	**5.0800e-003**		**0.2173**	**0.2173**		**0.2020**	**0.2020**	**0.0000**	**445.3818**	**445.3818**	**0.1257**	**0.0000**	**448.5250**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2400e-003	5.3600e-003	0.0526	1.6000e-004	0.0158	1.1000e-004	0.0159	4.1900e-003	1.0000e-004	4.2900e-003	0.0000	14.2438	14.2438	4.3000e-004	0.0000	14.2545
Total	**7.2400e-003**	**5.3600e-003**	**0.0526**	**1.6000e-004**	**0.0158**	**1.1000e-004**	**0.0159**	**4.1900e-003**	**1.0000e-004**	**4.2900e-003**	**0.0000**	**14.2438**	**14.2438**	**4.3000e-004**	**0.0000**	**14.2545**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4339	4.3493	2.8497	5.0800e-003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3812	445.3812	0.1257	0.0000	448.5244
Total	**0.4339**	**4.3493**	**2.8497**	**5.0800e-003**		**0.2173**	**0.2173**		**0.2020**	**0.2020**	**0.0000**	**445.3812**	**445.3812**	**0.1257**	**0.0000**	**448.5244**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2400e-003	5.3600e-003	0.0526	1.6000e-004	0.0158	1.1000e-004	0.0159	4.1900e-003	1.0000e-004	4.2900e-003	0.0000	14.2438	14.2438	4.3000e-004	0.0000	14.2545
Total	**7.2400e-003**	**5.3600e-003**	**0.0526**	**1.6000e-004**	**0.0158**	**1.1000e-004**	**0.0159**	**4.1900e-003**	**1.0000e-004**	**4.2900e-003**	**0.0000**	**14.2438**	**14.2438**	**4.3000e-004**	**0.0000**	**14.2545**

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0601	0.5974	0.4097	7.4000e-004		0.0295	0.0295		0.0274	0.0274	0.0000	64.6015	64.6015	0.0182	0.0000	65.0561
Total	**0.0601**	**0.5974**	**0.4097**	**7.4000e-004**		**0.0295**	**0.0295**		**0.0274**	**0.0274**	**0.0000**	**64.6015**	**64.6015**	**0.0182**	**0.0000**	**65.0561**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	9.9000e-004	7.1000e-004	7.1200e-003	2.0000e-005	2.2900e-003	2.0000e-005	2.3000e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9965	1.9965	6.0000e-005	0.0000	1.9979
Total	**9.9000e-004**	**7.1000e-004**	**7.1200e-003**	**2.0000e-005**	**2.2900e-003**	**2.0000e-005**	**2.3000e-003**	**6.1000e-004**	**1.0000e-005**	**6.2000e-004**	**0.0000**	**1.9965**	**1.9965**	**6.0000e-005**	**0.0000**	**1.9979**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0601	0.5974	0.4097	7.4000e-004		0.0295	0.0295		0.0274	0.0274	0.0000	64.6014	64.6014	0.0182	0.0000	65.0560
Total	**0.0601**	**0.5974**	**0.4097**	**7.4000e-004**		**0.0295**	**0.0295**		**0.0274**	**0.0274**	**0.0000**	**64.6014**	**64.6014**	**0.0182**	**0.0000**	**65.0560**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	9.9000e-004	7.1000e-004	7.1200e-003	2.0000e-005	2.2900e-003	2.0000e-005	2.3000e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9965	1.9965	6.0000e-005	0.0000	1.9979
Total	**9.9000e-004**	**7.1000e-004**	**7.1200e-003**	**2.0000e-005**	**2.2900e-003**	**2.0000e-005**	**2.3000e-003**	**6.1000e-004**	**1.0000e-005**	**6.2000e-004**	**0.0000**	**1.9965**	**1.9965**	**6.0000e-005**	**0.0000**	**1.9979**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3499	3.6447	1.9039	3.4200e-003		0.1840	0.1840		0.1693	0.1693	0.0000	300.9215	300.9215	0.0973	0.0000	303.3546
Total	**0.3499**	**3.6447**	**1.9039**	**3.4200e-003**	**1.6260**	**0.1840**	**1.8100**	**0.8938**	**0.1693**	**1.0630**	**0.0000**	**300.9215**	**300.9215**	**0.0973**	**0.0000**	**303.3546**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6300e-003	4.0200e-003	0.0405	1.3000e-004	0.0130	9.0000e-005	0.0131	3.4500e-003	8.0000e-005	3.5400e-003	0.0000	11.3485	11.3485	3.3000e-004	0.0000	11.3566
Total	**5.6300e-003**	**4.0200e-003**	**0.0405**	**1.3000e-004**	**0.0130**	**9.0000e-005**	**0.0131**	**3.4500e-003**	**8.0000e-005**	**3.5400e-003**	**0.0000**	**11.3485**	**11.3485**	**3.3000e-004**	**0.0000**	**11.3566**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3499	3.6447	1.9039	3.4200e-003		0.1840	0.1840		0.1693	0.1693	0.0000	300.9211	300.9211	0.0973	0.0000	303.3542
Total	**0.3499**	**3.6447**	**1.9039**	**3.4200e-003**	**1.6260**	**0.1840**	**1.8100**	**0.8938**	**0.1693**	**1.0630**	**0.0000**	**300.9211**	**300.9211**	**0.0973**	**0.0000**	**303.3542**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6300e-003	4.0200e-003	0.0405	1.3000e-004	0.0130	9.0000e-005	0.0131	3.4500e-003	8.0000e-005	3.5400e-003	0.0000	11.3485	11.3485	3.3000e-004	0.0000	11.3566
Total	**5.6300e-003**	**4.0200e-003**	**0.0405**	**1.3000e-004**	**0.0130**	**9.0000e-005**	**0.0131**	**3.4500e-003**	**8.0000e-005**	**3.5400e-003**	**0.0000**	**11.3485**	**11.3485**	**3.3000e-004**	**0.0000**	**11.3566**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7459	0.0000	0.7459	0.1377	0.0000	0.1377	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0901	0.9976	0.6639	1.3300e-003		0.0427	0.0427		0.0393	0.0393	0.0000	117.1642	117.1642	0.0379	0.0000	118.1115
Total	**0.0901**	**0.9976**	**0.6639**	**1.3300e-003**	**0.7459**	**0.0427**	**0.7886**	**0.1377**	**0.0393**	**0.1770**	**0.0000**	**117.1642**	**117.1642**	**0.0379**	**0.0000**	**118.1115**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.4900e-003	1.0700e-003	0.0107	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	3.0123	3.0123	9.0000e-005	0.0000	3.0144
Total	**1.4900e-003**	**1.0700e-003**	**0.0107**	**3.0000e-005**	**3.4500e-003**	**2.0000e-005**	**3.4700e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**3.0123**	**3.0123**	**9.0000e-005**	**0.0000**	**3.0144**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.7459	0.0000	0.7459	0.1377	0.0000	0.1377	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0901	0.9976	0.6639	1.3300e-003		0.0427	0.0427		0.0393	0.0393	0.0000	117.1641	117.1641	0.0379	0.0000	118.1114
Total	**0.0901**	**0.9976**	**0.6639**	**1.3300e-003**	**0.7459**	**0.0427**	**0.7886**	**0.1377**	**0.0393**	**0.1770**	**0.0000**	**117.1641**	**117.1641**	**0.0379**	**0.0000**	**118.1114**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.4900e-003	1.0700e-003	0.0107	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	3.0123	3.0123	9.0000e-005	0.0000	3.0144
Total	**1.4900e-003**	**1.0700e-003**	**0.0107**	**3.0000e-005**	**3.4500e-003**	**2.0000e-005**	**3.4700e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**3.0123**	**3.0123**	**9.0000e-005**	**0.0000**	**3.0144**

3.4 Grading - 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					
Fugitive Dust					1.3993	0.0000	1.3993	0.4969	0.0000	0.4969	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4712	5.0497	3.7754	8.0700e-003		0.2125	0.2125		0.1955	0.1955	0.0000	708.9498	708.9498	0.2293	0.0000	714.6820
Total	**0.4712**	**5.0497**	**3.7754**	**8.0700e-003**	**1.3993**	**0.2125**	**1.6118**	**0.4969**	**0.1955**	**0.6924**	**0.0000**	**708.9498**	**708.9498**	**0.2293**	**0.0000**	**714.6820**

3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5500e-003	5.8800e-003	0.0603	1.9000e-004	0.0209	1.4000e-004	0.0210	5.5400e-003	1.3000e-004	5.6700e-003	0.0000	17.5459	17.5459	4.8000e-004	0.0000	17.5579
Total	**8.5500e-003**	**5.8800e-003**	**0.0603**	**1.9000e-004**	**0.0209**	**1.4000e-004**	**0.0210**	**5.5400e-003**	**1.3000e-004**	**5.6700e-003**	**0.0000**	**17.5459**	**17.5459**	**4.8000e-004**	**0.0000**	**17.5579**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.3993	0.0000	1.3993	0.4969	0.0000	0.4969	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4712	5.0497	3.7754	8.0700e-003		0.2125	0.2125		0.1955	0.1955	0.0000	708.9490	708.9490	0.2293	0.0000	714.6812
Total	**0.4712**	**5.0497**	**3.7754**	**8.0700e-003**	**1.3993**	**0.2125**	**1.6118**	**0.4969**	**0.1955**	**0.6924**	**0.0000**	**708.9490**	**708.9490**	**0.2293**	**0.0000**	**714.6812**

3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5500e-003	5.8800e-003	0.0603	1.9000e-004	0.0209	1.4000e-004	0.0210	5.5400e-003	1.3000e-004	5.6700e-003	0.0000	17.5459	17.5459	4.8000e-004	0.0000	17.5579
Total	**8.5500e-003**	**5.8800e-003**	**0.0603**	**1.9000e-004**	**0.0209**	**1.4000e-004**	**0.0210**	**5.5400e-003**	**1.3000e-004**	**5.6700e-003**	**0.0000**	**17.5459**	**17.5459**	**4.8000e-004**	**0.0000**	**17.5579**

3.4 Grading - 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					
Fugitive Dust					1.1042	0.0000	1.1042	0.3347	0.0000	0.3347	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2691	2.7958	2.2721	5.0300e-003		0.1154	0.1154		0.1062	0.1062	0.0000	441.7352	441.7352	0.1429	0.0000	445.3068
Total	**0.2691**	**2.7958**	**2.2721**	**5.0300e-003**	**1.1042**	**0.1154**	**1.2196**	**0.3347**	**0.1062**	**0.4408**	**0.0000**	**441.7352**	**441.7352**	**0.1429**	**0.0000**	**445.3068**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0500e-003	3.3400e-003	0.0349	1.2000e-004	0.0130	9.0000e-005	0.0131	3.4500e-003	8.0000e-005	3.5300e-003	0.0000	10.5149	10.5149	2.7000e-004	0.0000	10.5217
Total	**5.0500e-003**	**3.3400e-003**	**0.0349**	**1.2000e-004**	**0.0130**	**9.0000e-005**	**0.0131**	**3.4500e-003**	**8.0000e-005**	**3.5300e-003**	**0.0000**	**10.5149**	**10.5149**	**2.7000e-004**	**0.0000**	**10.5217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.1042	0.0000	1.1042	0.3347	0.0000	0.3347	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2691	2.7958	2.2721	5.0300e-003		0.1154	0.1154		0.1062	0.1062	0.0000	441.7347	441.7347	0.1429	0.0000	445.3063
Total	**0.2691**	**2.7958**	**2.2721**	**5.0300e-003**	**1.1042**	**0.1154**	**1.2196**	**0.3347**	**0.1062**	**0.4408**	**0.0000**	**441.7347**	**441.7347**	**0.1429**	**0.0000**	**445.3063**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0500e-003	3.3400e-003	0.0349	1.2000e-004	0.0130	9.0000e-005	0.0131	3.4500e-003	8.0000e-005	3.5300e-003	0.0000	10.5149	10.5149	2.7000e-004	0.0000	10.5217
Total	**5.0500e-003**	**3.3400e-003**	**0.0349**	**1.2000e-004**	**0.0130**	**9.0000e-005**	**0.0131**	**3.4500e-003**	**8.0000e-005**	**3.5300e-003**	**0.0000**	**10.5149**	**10.5149**	**2.7000e-004**	**0.0000**	**10.5217**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0771	0.7049	0.7960	1.3200e-003		0.0343	0.0343		0.0323	0.0323	0.0000	113.5843	113.5843	0.0270	0.0000	114.2598
Total	**0.0771**	**0.7049**	**0.7960**	**1.3200e-003**		**0.0343**	**0.0343**		**0.0323**	**0.0323**	**0.0000**	**113.5843**	**113.5843**	**0.0270**	**0.0000**	**114.2598**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0560	1.9239	0.5963	6.5000e-003	0.1675	2.3100e-003	0.1698	0.0484	2.2000e-003	0.0506	0.0000	637.0452	637.0452	0.0433	0.0000	638.1281
Worker	0.4723	0.3127	3.2580	0.0109	1.2146	8.2400e-003	1.2228	0.3228	7.5900e-003	0.3303	0.0000	983.0680	983.0680	0.0255	0.0000	983.7048
Total	**0.5282**	**2.2366**	**3.8542**	**0.0174**	**1.3821**	**0.0106**	**1.3926**	**0.3711**	**9.7900e-003**	**0.3809**	**0.0000**	**1,620.1132**	**1,620.1132**	**0.0688**	**0.0000**	**1,621.8328**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0771	0.7049	0.7960	1.3200e-003		0.0343	0.0343		0.0323	0.0323	0.0000	113.5842	113.5842	0.0270	0.0000	114.2597
Total	**0.0771**	**0.7049**	**0.7960**	**1.3200e-003**		**0.0343**	**0.0343**		**0.0323**	**0.0323**	**0.0000**	**113.5842**	**113.5842**	**0.0270**	**0.0000**	**114.2597**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0560	1.9239	0.5963	6.5000e-003	0.1675	2.3100e-003	0.1698	0.0484	2.2000e-003	0.0506	0.0000	637.0452	637.0452	0.0433	0.0000	638.1281
Worker	0.4723	0.3127	3.2580	0.0109	1.2146	8.2400e-003	1.2228	0.3228	7.5900e-003	0.3303	0.0000	983.0680	983.0680	0.0255	0.0000	983.7048
Total	**0.5282**	**2.2366**	**3.8542**	**0.0174**	**1.3821**	**0.0106**	**1.3926**	**0.3711**	**9.7900e-003**	**0.3809**	**0.0000**	**1,620.1132**	**1,620.1132**	**0.0688**	**0.0000**	**1,621.8328**

3.5 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7223**	**303.7223**	**0.0718**	**0.0000**	**305.5179**

3.5 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	0.1444	5.0711	1.5435	0.0173	0.4478	6.0000e-003	0.4538	0.1293	5.7400e-003	0.1350	0.0000	1,692.2958	1,692.2958	0.1144	0.0000	1,695.1554
Worker	1.2007	0.7668	8.1342	0.0279	3.2471	0.0216	3.2688	0.8629	0.0199	0.8828	0.0000	2,524.7336	2,524.7336	0.0626	0.0000	2,526.2974
Total	**1.3450**	**5.8379**	**9.6777**	**0.0452**	**3.6949**	**0.0276**	**3.7226**	**0.9921**	**0.0257**	**1.0178**	**0.0000**	**4,217.0294**	**4,217.0294**	**0.1769**	**0.0000**	**4,221.4528**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7220**	**303.7220**	**0.0718**	**0.0000**	**305.5175**

3.5 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	0.1444	5.0711	1.5435	0.0173	0.4478	6.0000e-003	0.4538	0.1293	5.7400e-003	0.1350	0.0000	1,692.2958	1,692.2958	0.1144	0.0000	1,695.1554
Worker	1.2007	0.7668	8.1342	0.0279	3.2471	0.0216	3.2688	0.8629	0.0199	0.8828	0.0000	2,524.7336	2,524.7336	0.0626	0.0000	2,526.2974
Total	**1.3450**	**5.8379**	**9.6777**	**0.0452**	**3.6949**	**0.0276**	**3.7226**	**0.9921**	**0.0257**	**1.0178**	**0.0000**	**4,217.0294**	**4,217.0294**	**0.1769**	**0.0000**	**4,221.4528**

3.5 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.5 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	0.1396	4.9781	1.5066	0.0171	0.4461	5.8000e-003	0.4519	0.1288	5.5400e-003	0.1343	0.0000	1,675.5810	1,675.5810	0.1127	0.0000	1,678.3992
Worker	1.1423	0.7042	7.5632	0.0267	3.2347	0.0212	3.2559	0.8596	0.0195	0.8791	0.0000	2,413.4210	2,413.4210	0.0575	0.0000	2,414.8587
Total	**1.2818**	**5.6824**	**9.0698**	**0.0437**	**3.6808**	**0.0270**	**3.7078**	**0.9884**	**0.0251**	**1.0134**	**0.0000**	**4,089.0021**	**4,089.0021**	**0.1702**	**0.0000**	**4,093.2579**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.5 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	0.1396	4.9781	1.5066	0.0171	0.4461	5.8000e-003	0.4519	0.1288	5.5400e-003	0.1343	0.0000	1,675.5810	1,675.5810	0.1127	0.0000	1,678.3992
Worker	1.1423	0.7042	7.5632	0.0267	3.2347	0.0212	3.2559	0.8596	0.0195	0.8791	0.0000	2,413.4210	2,413.4210	0.0575	0.0000	2,414.8587
Total	**1.2818**	**5.6824**	**9.0698**	**0.0437**	**3.6808**	**0.0270**	**3.7078**	**0.9884**	**0.0251**	**1.0134**	**0.0000**	**4,089.0021**	**4,089.0021**	**0.1702**	**0.0000**	**4,093.2579**

3.5 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.5 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	0.1360	4.9069	1.4850	0.0169	0.4461	5.6300e-003	0.4517	0.1288	5.3800e-003	0.1342	0.0000	1,665.9895	1,665.9895	0.1116	0.0000	1,668.7785
Worker	1.0952	0.6550	7.1073	0.0257	3.2347	0.0206	3.2553	0.8596	0.0189	0.8785	0.0000	2,325.0350	2,325.0350	0.0536	0.0000	2,326.3744
Total	**1.2312**	**5.5619**	**8.5923**	**0.0426**	**3.6808**	**0.0262**	**3.7070**	**0.9884**	**0.0243**	**1.0127**	**0.0000**	**3,991.0245**	**3,991.0245**	**0.1651**	**0.0000**	**3,995.1529**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.5 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	0.1360	4.9069	1.4850	0.0169	0.4461	5.6300e-003	0.4517	0.1288	5.3800e-003	0.1342	0.0000	1,665.9895	1,665.9895	0.1116	0.0000	1,668.7785
Worker	1.0952	0.6550	7.1073	0.0257	3.2347	0.0206	3.2553	0.8596	0.0189	0.8785	0.0000	2,325.0350	2,325.0350	0.0536	0.0000	2,326.3744
Total	**1.2312**	**5.5619**	**8.5923**	**0.0426**	**3.6808**	**0.0262**	**3.7070**	**0.9884**	**0.0243**	**1.0127**	**0.0000**	**3,991.0245**	**3,991.0245**	**0.1651**	**0.0000**	**3,995.1529**

3.5 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.5 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	0.1330	4.8385	1.4667	0.0168	0.4461	5.4900e-003	0.4516	0.1288	5.2500e-003	0.1340	0.0000	1,657.1962	1,657.1962	0.1106	0.0000	1,659.9601
Worker	1.0481	0.6114	6.7033	0.0248	3.2347	0.0194	3.2542	0.8596	0.0179	0.8775	0.0000	2,247.1484	2,247.1484	0.0502	0.0000	2,248.4022
Total	**1.1811**	**5.4499**	**8.1700**	**0.0417**	**3.6808**	**0.0249**	**3.7058**	**0.9884**	**0.0231**	**1.0115**	**0.0000**	**3,904.3446**	**3,904.3446**	**0.1607**	**0.0000**	**3,908.3623**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.5 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	0.1330	4.8385	1.4667	0.0168	0.4461	5.4900e-003	0.4516	0.1288	5.2500e-003	0.1340	0.0000	1,657.1962	1,657.1962	0.1106	0.0000	1,659.9601
Worker	1.0481	0.6114	6.7033	0.0248	3.2347	0.0194	3.2542	0.8596	0.0179	0.8775	0.0000	2,247.1484	2,247.1484	0.0502	0.0000	2,248.4022
Total	**1.1811**	**5.4499**	**8.1700**	**0.0417**	**3.6808**	**0.0249**	**3.7058**	**0.9884**	**0.0231**	**1.0115**	**0.0000**	**3,904.3446**	**3,904.3446**	**0.1607**	**0.0000**	**3,908.3623**

3.5 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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	**0.1778**	**1.6211**	**2.0910**	**3.5000e-003**		**0.0686**	**0.0686**		**0.0645**	**0.0645**	**0.0000**	**301.4953**	**301.4953**	**0.0709**	**0.0000**	**303.2671**

3.5 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	0.1301	4.7634	1.4516	0.0167	0.4444	5.3600e-003	0.4497	0.1283	5.1200e-003	0.1334	0.0000	1,643.5242	1,643.5242	0.1092	0.0000	1,646.2547
Worker	0.9944	0.5706	6.3276	0.0240	3.2223	0.0179	3.2403	0.8563	0.0165	0.8728	0.0000	2,170.4576	2,170.4576	0.0471	0.0000	2,171.6345
Total	**1.1245**	**5.3340**	**7.7793**	**0.0407**	**3.6667**	**0.0233**	**3.6900**	**0.9846**	**0.0216**	**1.0062**	**0.0000**	**3,813.9818**	**3,813.9818**	**0.1563**	**0.0000**	**3,817.8892**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	**0.1778**	**1.6211**	**2.0910**	**3.5000e-003**		**0.0686**	**0.0686**		**0.0645**	**0.0645**	**0.0000**	**301.4949**	**301.4949**	**0.0709**	**0.0000**	**303.2667**

3.5 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	0.1301	4.7634	1.4516	0.0167	0.4444	5.3600e-003	0.4497	0.1283	5.1200e-003	0.1334	0.0000	1,643.5242	1,643.5242	0.1092	0.0000	1,646.2547
Worker	0.9944	0.5706	6.3276	0.0240	3.2223	0.0179	3.2403	0.8563	0.0165	0.8728	0.0000	2,170.4576	2,170.4576	0.0471	0.0000	2,171.6345
Total	**1.1245**	**5.3340**	**7.7793**	**0.0407**	**3.6667**	**0.0233**	**3.6900**	**0.9846**	**0.0216**	**1.0062**	**0.0000**	**3,813.9818**	**3,813.9818**	**0.1563**	**0.0000**	**3,817.8892**

3.5 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.5 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	0.1284	4.7232	1.4466	0.0167	0.4461	5.2500e-003	0.4513	0.1288	5.0100e-003	0.1338	0.0000	1,642.6459	1,642.6459	0.1090	0.0000	1,645.3702
Worker	0.9441	0.5373	6.0180	0.0234	3.2347	0.0167	3.2515	0.8596	0.0154	0.8749	0.0000	2,118.7224	2,118.7224	0.0446	0.0000	2,119.8367
Total	**1.0724**	**5.2605**	**7.4646**	**0.0401**	**3.6808**	**0.0220**	**3.7028**	**0.9884**	**0.0204**	**1.0087**	**0.0000**	**3,761.3683**	**3,761.3683**	**0.1535**	**0.0000**	**3,765.2070**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.5 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	0.1284	4.7232	1.4466	0.0167	0.4461	5.2500e-003	0.4513	0.1288	5.0100e-003	0.1338	0.0000	1,642.6459	1,642.6459	0.1090	0.0000	1,645.3702
Worker	0.9441	0.5373	6.0180	0.0234	3.2347	0.0167	3.2515	0.8596	0.0154	0.8749	0.0000	2,118.7224	2,118.7224	0.0446	0.0000	2,119.8367
Total	**1.0724**	**5.2605**	**7.4646**	**0.0401**	**3.6808**	**0.0220**	**3.7028**	**0.9884**	**0.0204**	**1.0087**	**0.0000**	**3,761.3683**	**3,761.3683**	**0.1535**	**0.0000**	**3,765.2070**

3.5 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	**0.1708**	**1.0355**	**2.1085**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**343.0336**	**343.0336**	**0.0138**	**0.0000**	**343.3777**

3.5 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	0.1266	4.6737	1.4410	0.0166	0.4461	5.1400e-003	0.4512	0.1288	4.9100e-003	0.1337	0.0000	1,636.7856	1,636.7856	0.1084	0.0000	1,639.4955
Worker	0.8849	0.5030	5.7006	0.0228	3.2347	0.0155	3.2503	0.8596	0.0143	0.8739	0.0000	2,065.8942	2,065.8942	0.0420	0.0000	2,066.9453
Total	**1.0115**	**5.1767**	**7.1416**	**0.0394**	**3.6808**	**0.0207**	**3.7015**	**0.9884**	**0.0192**	**1.0076**	**0.0000**	**3,702.6798**	**3,702.6798**	**0.1504**	**0.0000**	**3,706.4408**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	**0.1708**	**1.0355**	**2.1085**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**343.0332**	**343.0332**	**0.0138**	**0.0000**	**343.3773**

3.5 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	0.1266	4.6737	1.4410	0.0166	0.4461	5.1400e-003	0.4512	0.1288	4.9100e-003	0.1337	0.0000	1,636.7856	1,636.7856	0.1084	0.0000	1,639.4955
Worker	0.8849	0.5030	5.7006	0.0228	3.2347	0.0155	3.2503	0.8596	0.0143	0.8739	0.0000	2,065.8942	2,065.8942	0.0420	0.0000	2,066.9453
Total	**1.0115**	**5.1767**	**7.1416**	**0.0394**	**3.6808**	**0.0207**	**3.7015**	**0.9884**	**0.0192**	**1.0076**	**0.0000**	**3,702.6798**	**3,702.6798**	**0.1504**	**0.0000**	**3,706.4408**

3.5 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	**0.1708**	**1.0355**	**2.1085**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**343.0336**	**343.0336**	**0.0138**	**0.0000**	**343.3777**

3.5 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	0.1252	4.6310	1.4362	0.0165	0.4461	5.0500e-003	0.4511	0.1288	4.8300e-003	0.1336	0.0000	1,631.8612	1,631.8612	0.1079	0.0000	1,634.5576
Worker	0.8221	0.4710	5.3993	0.0223	3.2347	0.0145	3.2492	0.8596	0.0133	0.8729	0.0000	2,019.6653	2,019.6653	0.0398	0.0000	2,020.6593
Total	**0.9473**	**5.1021**	**6.8355**	**0.0388**	**3.6808**	**0.0195**	**3.7003**	**0.9884**	**0.0181**	**1.0065**	**0.0000**	**3,651.5264**	**3,651.5264**	**0.1476**	**0.0000**	**3,655.2168**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	**0.1708**	**1.0355**	**2.1085**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**343.0332**	**343.0332**	**0.0138**	**0.0000**	**343.3773**

3.5 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	0.1252	4.6310	1.4362	0.0165	0.4461	5.0500e-003	0.4511	0.1288	4.8300e-003	0.1336	0.0000	1,631.8612	1,631.8612	0.1079	0.0000	1,634.5576
Worker	0.8221	0.4710	5.3993	0.0223	3.2347	0.0145	3.2492	0.8596	0.0133	0.8729	0.0000	2,019.6653	2,019.6653	0.0398	0.0000	2,020.6593
Total	**0.9473**	**5.1021**	**6.8355**	**0.0388**	**3.6808**	**0.0195**	**3.7003**	**0.9884**	**0.0181**	**1.0065**	**0.0000**	**3,651.5264**	**3,651.5264**	**0.1476**	**0.0000**	**3,655.2168**

3.5 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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	**0.1715**	**1.0394**	**2.1166**	**4.0600e-003**		**0.0194**	**0.0194**		**0.0194**	**0.0194**	**0.0000**	**344.3479**	**344.3479**	**0.0138**	**0.0000**	**344.6933**

3.5 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	0.1246	4.6106	1.4396	0.0165	0.4478	4.9900e-003	0.4528	0.1293	4.7700e-003	0.1341	0.0000	1,634.4348	1,634.4348	0.1078	0.0000	1,637.1303
Worker	0.7695	0.4461	5.1596	0.0220	3.2471	0.0135	3.2606	0.8629	0.0124	0.8753	0.0000	1,987.1307	1,987.1307	0.0380	0.0000	1,988.0815
Total	**0.8941**	**5.0567**	**6.5992**	**0.0385**	**3.6949**	**0.0185**	**3.7134**	**0.9921**	**0.0172**	**1.0094**	**0.0000**	**3,621.5655**	**3,621.5655**	**0.1459**	**0.0000**	**3,625.2117**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	**0.1715**	**1.0394**	**2.1166**	**4.0600e-003**		**0.0194**	**0.0194**		**0.0194**	**0.0194**	**0.0000**	**344.3475**	**344.3475**	**0.0138**	**0.0000**	**344.6929**

3.5 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	0.1246	4.6106	1.4396	0.0165	0.4478	4.9900e-003	0.4528	0.1293	4.7700e-003	0.1341	0.0000	1,634.4348	1,634.4348	0.1078	0.0000	1,637.1303
Worker	0.7695	0.4461	5.1596	0.0220	3.2471	0.0135	3.2606	0.8629	0.0124	0.8753	0.0000	1,987.1307	1,987.1307	0.0380	0.0000	1,988.0815
Total	**0.8941**	**5.0567**	**6.5992**	**0.0385**	**3.6949**	**0.0185**	**3.7134**	**0.9921**	**0.0172**	**1.0094**	**0.0000**	**3,621.5655**	**3,621.5655**	**0.1459**	**0.0000**	**3,625.2117**

3.5 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7193**	**341.7193**	**0.0137**	**0.0000**	**342.0621**

3.5 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	0.1229	4.5413	1.4276	0.0164	0.4444	4.8900e-003	0.4493	0.1283	4.6700e-003	0.1330	0.0000	1,619.0032	1,619.0032	0.1066	0.0000	1,621.6688
Worker	0.7153	0.4202	4.8972	0.0214	3.2223	0.0125	3.2349	0.8563	0.0115	0.8678	0.0000	1,937.5475	1,937.5475	0.0361	0.0000	1,938.4508
Total	**0.8382**	**4.9615**	**6.3247**	**0.0378**	**3.6667**	**0.0174**	**3.6841**	**0.9846**	**0.0162**	**1.0008**	**0.0000**	**3,556.5507**	**3,556.5507**	**0.1428**	**0.0000**	**3,560.1196**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7189**	**341.7189**	**0.0137**	**0.0000**	**342.0617**

3.5 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	0.1229	4.5413	1.4276	0.0164	0.4444	4.8900e-003	0.4493	0.1283	4.6700e-003	0.1330	0.0000	1,619.0032	1,619.0032	0.1066	0.0000	1,621.6688
Worker	0.7153	0.4202	4.8972	0.0214	3.2223	0.0125	3.2349	0.8563	0.0115	0.8678	0.0000	1,937.5475	1,937.5475	0.0361	0.0000	1,938.4508
Total	**0.8382**	**4.9615**	**6.3247**	**0.0378**	**3.6667**	**0.0174**	**3.6841**	**0.9846**	**0.0162**	**1.0008**	**0.0000**	**3,556.5507**	**3,556.5507**	**0.1428**	**0.0000**	**3,560.1196**

3.5 Building Construction - 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7193**	**341.7193**	**0.0137**	**0.0000**	**342.0621**

3.5 Building Construction - 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	0.1222	4.5116	1.4259	0.0163	0.4444	4.8300e-003	0.4492	0.1283	4.6100e-003	0.1329	0.0000	1,616.7592	1,616.7592	0.1064	0.0000	1,619.4179
Worker	0.6739	0.4013	4.6827	0.0211	3.2223	0.0117	3.2340	0.8563	0.0108	0.8670	0.0000	1,907.8940	1,907.8940	0.0346	0.0000	1,908.7589
Total	**0.7961**	**4.9129**	**6.1086**	**0.0374**	**3.6667**	**0.0165**	**3.6832**	**0.9846**	**0.0154**	**0.9999**	**0.0000**	**3,524.6532**	**3,524.6532**	**0.1410**	**0.0000**	**3,528.1768**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7189**	**341.7189**	**0.0137**	**0.0000**	**342.0617**

3.5 Building Construction - 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	0.1222	4.5116	1.4259	0.0163	0.4444	4.8300e-003	0.4492	0.1283	4.6100e-003	0.1329	0.0000	1,616.7592	1,616.7592	0.1064	0.0000	1,619.4179
Worker	0.6739	0.4013	4.6827	0.0211	3.2223	0.0117	3.2340	0.8563	0.0108	0.8670	0.0000	1,907.8940	1,907.8940	0.0346	0.0000	1,908.7589
Total	**0.7961**	**4.9129**	**6.1086**	**0.0374**	**3.6667**	**0.0165**	**3.6832**	**0.9846**	**0.0154**	**0.9999**	**0.0000**	**3,524.6532**	**3,524.6532**	**0.1410**	**0.0000**	**3,528.1768**

3.5 Building Construction - 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					
Off-Road	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	**0.1588**	**0.9346**	**2.1034**	**4.0400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**343.0336**	**343.0336**	**0.0128**	**0.0000**	**343.3530**

3.5 Building Construction - 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
Vendor	0.1220	4.5040	1.4291	0.0164	0.4461	4.7900e-003	0.4509	0.1288	4.5800e-003	0.1334	0.0000	1,621.2269	1,621.2269	0.1065	0.0000	1,623.8893
Worker	0.6408	0.3881	4.5168	0.0209	3.2347	0.0110	3.2457	0.8596	0.0101	0.8697	0.0000	1,890.0892	1,890.0892	0.0334	0.0000	1,890.9232
Total	**0.7628**	**4.8920**	**5.9460**	**0.0373**	**3.6808**	**0.0158**	**3.6966**	**0.9884**	**0.0147**	**1.0030**	**0.0000**	**3,511.3160**	**3,511.3160**	**0.1399**	**0.0000**	**3,514.8125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	**0.1588**	**0.9346**	**2.1034**	**4.0400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**343.0332**	**343.0332**	**0.0128**	**0.0000**	**343.3526**

3.5 Building Construction - 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	0.1220	4.5040	1.4291	0.0164	0.4461	4.7900e-003	0.4509	0.1288	4.5800e-003	0.1334	0.0000	1,621.2269	1,621.2269	0.1065	0.0000	1,623.8893
Worker	0.6408	0.3881	4.5168	0.0209	3.2347	0.0110	3.2457	0.8596	0.0101	0.8697	0.0000	1,890.0892	1,890.0892	0.0334	0.0000	1,890.9232
Total	**0.7628**	**4.8920**	**5.9460**	**0.0373**	**3.6808**	**0.0158**	**3.6966**	**0.9884**	**0.0147**	**1.0030**	**0.0000**	**3,511.3160**	**3,511.3160**	**0.1399**	**0.0000**	**3,514.8125**

3.5 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686
Total	**0.1594**	**0.9381**	**2.1114**	**4.0600e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**344.3479**	**344.3479**	**0.0128**	**0.0000**	**344.6686**

3.5 Building Construction - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1225	4.5212	1.4346	0.0164	0.4478	4.8100e-003	0.4526	0.1293	4.6000e-003	0.1339	0.0000	1,627.4385	1,627.4385	0.1069	0.0000	1,630.1111
Worker	0.6432	0.3896	4.5342	0.0210	3.2471	0.0110	3.2582	0.8629	0.0102	0.8730	0.0000	1,897.3309	1,897.3309	0.0335	0.0000	1,898.1681
Total	**0.7657**	**4.9108**	**5.9688**	**0.0374**	**3.6949**	**0.0158**	**3.7108**	**0.9921**	**0.0148**	**1.0069**	**0.0000**	**3,524.7694**	**3,524.7694**	**0.1404**	**0.0000**	**3,528.2792**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682
Total	**0.1594**	**0.9381**	**2.1114**	**4.0600e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**344.3475**	**344.3475**	**0.0128**	**0.0000**	**344.6682**

3.5 Building Construction - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1225	4.5212	1.4346	0.0164	0.4478	4.8100e-003	0.4526	0.1293	4.6000e-003	0.1339	0.0000	1,627.4385	1,627.4385	0.1069	0.0000	1,630.1111
Worker	0.6432	0.3896	4.5342	0.0210	3.2471	0.0110	3.2582	0.8629	0.0102	0.8730	0.0000	1,897.3309	1,897.3309	0.0335	0.0000	1,898.1681
Total	**0.7657**	**4.9108**	**5.9688**	**0.0374**	**3.6949**	**0.0158**	**3.7108**	**0.9921**	**0.0148**	**1.0069**	**0.0000**	**3,524.7694**	**3,524.7694**	**0.1404**	**0.0000**	**3,528.2792**

3.5 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	**0.1588**	**0.9346**	**2.1034**	**4.0400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**343.0336**	**343.0336**	**0.0128**	**0.0000**	**343.3530**

3.5 Building Construction - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1220	4.5040	1.4291	0.0164	0.4461	4.7900e-003	0.4509	0.1288	4.5800e-003	0.1334	0.0000	1,621.2269	1,621.2269	0.1065	0.0000	1,623.8893
Worker	0.6408	0.3881	4.5168	0.0209	3.2347	0.0110	3.2457	0.8596	0.0101	0.8697	0.0000	1,890.0892	1,890.0892	0.0334	0.0000	1,890.9232
Total	**0.7628**	**4.8920**	**5.9460**	**0.0373**	**3.6808**	**0.0158**	**3.6966**	**0.9884**	**0.0147**	**1.0030**	**0.0000**	**3,511.3160**	**3,511.3160**	**0.1399**	**0.0000**	**3,514.8125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	**0.1588**	**0.9346**	**2.1034**	**4.0400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**343.0332**	**343.0332**	**0.0128**	**0.0000**	**343.3526**

3.5 Building Construction - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1220	4.5040	1.4291	0.0164	0.4461	4.7900e-003	0.4509	0.1288	4.5800e-003	0.1334	0.0000	1,621.2269	1,621.2269	0.1065	0.0000	1,623.8893
Worker	0.6408	0.3881	4.5168	0.0209	3.2347	0.0110	3.2457	0.8596	0.0101	0.8697	0.0000	1,890.0892	1,890.0892	0.0334	0.0000	1,890.9232
Total	**0.7628**	**4.8920**	**5.9460**	**0.0373**	**3.6808**	**0.0158**	**3.6966**	**0.9884**	**0.0147**	**1.0030**	**0.0000**	**3,511.3160**	**3,511.3160**	**0.1399**	**0.0000**	**3,514.8125**

3.5 Building Construction - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	**0.1588**	**0.9346**	**2.1034**	**4.0400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**343.0336**	**343.0336**	**0.0128**	**0.0000**	**343.3530**

3.5 Building Construction - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1220	4.5040	1.4291	0.0164	0.4461	4.7900e-003	0.4509	0.1288	4.5800e-003	0.1334	0.0000	1,621.2269	1,621.2269	0.1065	0.0000	1,623.8893
Worker	0.6408	0.3881	4.5168	0.0209	3.2347	0.0110	3.2457	0.8596	0.0101	0.8697	0.0000	1,890.0892	1,890.0892	0.0334	0.0000	1,890.9232
Total	**0.7628**	**4.8920**	**5.9460**	**0.0373**	**3.6808**	**0.0158**	**3.6966**	**0.9884**	**0.0147**	**1.0030**	**0.0000**	**3,511.3160**	**3,511.3160**	**0.1399**	**0.0000**	**3,514.8125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	**0.1588**	**0.9346**	**2.1034**	**4.0400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**343.0332**	**343.0332**	**0.0128**	**0.0000**	**343.3526**

3.5 Building Construction - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1220	4.5040	1.4291	0.0164	0.4461	4.7900e-003	0.4509	0.1288	4.5800e-003	0.1334	0.0000	1,621.2269	1,621.2269	0.1065	0.0000	1,623.8893
Worker	0.6408	0.3881	4.5168	0.0209	3.2347	0.0110	3.2457	0.8596	0.0101	0.8697	0.0000	1,890.0892	1,890.0892	0.0334	0.0000	1,890.9232
Total	**0.7628**	**4.8920**	**5.9460**	**0.0373**	**3.6808**	**0.0158**	**3.6966**	**0.9884**	**0.0147**	**1.0030**	**0.0000**	**3,511.3160**	**3,511.3160**	**0.1399**	**0.0000**	**3,514.8125**

3.5 Building Construction - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1582	0.9310	2.0953	4.0200e-003		0.0118	0.0118		0.0118	0.0118	0.0000	341.7193	341.7193	0.0127	0.0000	342.0375
Total	**0.1582**	**0.9310**	**2.0953**	**4.0200e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**341.7193**	**341.7193**	**0.0127**	**0.0000**	**342.0375**

3.5 Building Construction - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1216	4.4867	1.4237	0.0163	0.4444	4.7800e-003	0.4492	0.1283	4.5600e-003	0.1329	0.0000	1,615.0153	1,615.0153	0.1061	0.0000	1,617.6675
Worker	0.6383	0.3866	4.4995	0.0208	3.2223	0.0110	3.2333	0.8563	0.0101	0.8663	0.0000	1,882.8474	1,882.8474	0.0332	0.0000	1,883.6782
Total	**0.7599**	**4.8733**	**5.9232**	**0.0371**	**3.6667**	**0.0157**	**3.6824**	**0.9846**	**0.0146**	**0.9992**	**0.0000**	**3,497.8627**	**3,497.8627**	**0.1393**	**0.0000**	**3,501.3458**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1582	0.9310	2.0953	4.0200e-003		0.0118	0.0118		0.0118	0.0118	0.0000	341.7189	341.7189	0.0127	0.0000	342.0371
Total	**0.1582**	**0.9310**	**2.0953**	**4.0200e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**341.7189**	**341.7189**	**0.0127**	**0.0000**	**342.0371**

3.5 Building Construction - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1216	4.4867	1.4237	0.0163	0.4444	4.7800e-003	0.4492	0.1283	4.5600e-003	0.1329	0.0000	1,615.0153	1,615.0153	0.1061	0.0000	1,617.6675
Worker	0.6383	0.3866	4.4995	0.0208	3.2223	0.0110	3.2333	0.8563	0.0101	0.8663	0.0000	1,882.8474	1,882.8474	0.0332	0.0000	1,883.6782
Total	**0.7599**	**4.8733**	**5.9232**	**0.0371**	**3.6667**	**0.0157**	**3.6824**	**0.9846**	**0.0146**	**0.9992**	**0.0000**	**3,497.8627**	**3,497.8627**	**0.1393**	**0.0000**	**3,501.3458**

3.5 Building Construction - 2040

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419
Total	**0.1562**	**0.8992**	**2.1035**	**4.0400e-003**		**9.6200e-003**	**9.6200e-003**		**9.6200e-003**	**9.6200e-003**	**0.0000**	**343.0337**	**343.0337**	**0.0123**	**0.0000**	**343.3419**

3.5 Building Construction - 2040

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1204	4.4267	1.4127	0.0164	0.4461	4.6500e-003	0.4507	0.1288	4.4400e-003	0.1332	0.0000	1,619.5360	1,619.5360	0.1052	0.0000	1,622.1652
Worker	0.5083	0.3383	3.9356	0.0200	3.2347	8.5000e-003	3.2432	0.8596	7.8200e-003	0.8674	0.0000	1,814.7892	1,814.7892	0.0288	0.0000	1,815.5088
Total	**0.6287**	**4.7650**	**5.3483**	**0.0364**	**3.6808**	**0.0132**	**3.6940**	**0.9884**	**0.0123**	**1.0006**	**0.0000**	**3,434.3252**	**3,434.3252**	**0.1340**	**0.0000**	**3,437.6740**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	**0.1562**	**0.8992**	**2.1035**	**4.0400e-003**		**9.6200e-003**	**9.6200e-003**		**9.6200e-003**	**9.6200e-003**	**0.0000**	**343.0333**	**343.0333**	**0.0123**	**0.0000**	**343.3415**

3.5 Building Construction - 2040

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1204	4.4267	1.4127	0.0164	0.4461	4.6500e-003	0.4507	0.1288	4.4400e-003	0.1332	0.0000	1,619.5360	1,619.5360	0.1052	0.0000	1,622.1652
Worker	0.5083	0.3383	3.9356	0.0200	3.2347	8.5000e-003	3.2432	0.8596	7.8200e-003	0.8674	0.0000	1,814.7892	1,814.7892	0.0288	0.0000	1,815.5088
Total	**0.6287**	**4.7650**	**5.3483**	**0.0364**	**3.6808**	**0.0132**	**3.6940**	**0.9884**	**0.0123**	**1.0006**	**0.0000**	**3,434.3252**	**3,434.3252**	**0.1340**	**0.0000**	**3,437.6740**

3.5 Building Construction - 2041

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0694	0.3996	0.9349	1.8000e-003		4.2800e-003	4.2800e-003		4.2800e-003	4.2800e-003	0.0000	152.4594	152.4594	5.4800e-003	0.0000	152.5964
Total	**0.0694**	**0.3996**	**0.9349**	**1.8000e-003**		**4.2800e-003**	**4.2800e-003**		**4.2800e-003**	**4.2800e-003**	**0.0000**	**152.4594**	**152.4594**	**5.4800e-003**	**0.0000**	**152.5964**

3.5 Building Construction - 2041

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0535	1.9674	0.6279	7.2700e-003	0.1983	2.0700e-003	0.2003	0.0572	1.9700e-003	0.0592	0.0000	719.7938	719.7938	0.0467	0.0000	720.9623
Worker	0.2259	0.1504	1.7491	8.9000e-003	1.4377	3.7800e-003	1.4414	0.3820	3.4800e-003	0.3855	0.0000	806.5730	806.5730	0.0128	0.0000	806.8928
Total	**0.2794**	**2.1178**	**2.3770**	**0.0162**	**1.6359**	**5.8500e-003**	**1.6418**	**0.4393**	**5.4500e-003**	**0.4447**	**0.0000**	**1,526.3668**	**1,526.3668**	**0.0595**	**0.0000**	**1,527.8551**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0694	0.3996	0.9349	1.8000e-003		4.2800e-003	4.2800e-003		4.2800e-003	4.2800e-003	0.0000	152.4592	152.4592	5.4800e-003	0.0000	152.5962
Total	**0.0694**	**0.3996**	**0.9349**	**1.8000e-003**		**4.2800e-003**	**4.2800e-003**		**4.2800e-003**	**4.2800e-003**	**0.0000**	**152.4592**	**152.4592**	**5.4800e-003**	**0.0000**	**152.5962**

3.5 Building Construction - 2041

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0535	1.9674	0.6279	7.2700e-003	0.1983	2.0700e-003	0.2003	0.0572	1.9700e-003	0.0592	0.0000	719.7938	719.7938	0.0467	0.0000	720.9623
Worker	0.2259	0.1504	1.7491	8.9000e-003	1.4377	3.7800e-003	1.4414	0.3820	3.4800e-003	0.3855	0.0000	806.5730	806.5730	0.0128	0.0000	806.8928
Total	**0.2794**	**2.1178**	**2.3770**	**0.0162**	**1.6359**	**5.8500e-003**	**1.6418**	**0.4393**	**5.4500e-003**	**0.4447**	**0.0000**	**1,526.3668**	**1,526.3668**	**0.0595**	**0.0000**	**1,527.8551**

3.6 Paving - 2041

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0733	0.2651	1.1468	2.0300e-003		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	174.7215	174.7215	5.8700e-003	0.0000	174.8683
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0733**	**0.2651**	**1.1468**	**2.0300e-003**		**8.4400e-003**	**8.4400e-003**		**8.4400e-003**	**8.4400e-003**	**0.0000**	**174.7215**	**174.7215**	**5.8700e-003**	**0.0000**	**174.8683**

3.6 Paving - 2041

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3700e-003	9.1000e-004	0.0106	5.0000e-005	8.7200e-003	2.0000e-005	8.7400e-003	2.3200e-003	2.0000e-005	2.3400e-003	0.0000	4.8927	4.8927	8.0000e-005	0.0000	4.8946
Total	**1.3700e-003**	**9.1000e-004**	**0.0106**	**5.0000e-005**	**8.7200e-003**	**2.0000e-005**	**8.7400e-003**	**2.3200e-003**	**2.0000e-005**	**2.3400e-003**	**0.0000**	**4.8927**	**4.8927**	**8.0000e-005**	**0.0000**	**4.8946**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0733	0.2651	1.1468	2.0300e-003		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	174.7213	174.7213	5.8700e-003	0.0000	174.8681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0733**	**0.2651**	**1.1468**	**2.0300e-003**		**8.4400e-003**	**8.4400e-003**		**8.4400e-003**	**8.4400e-003**	**0.0000**	**174.7213**	**174.7213**	**5.8700e-003**	**0.0000**	**174.8681**

3.6 Paving - 2041

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3700e-003	9.1000e-004	0.0106	5.0000e-005	8.7200e-003	2.0000e-005	8.7400e-003	2.3200e-003	2.0000e-005	2.3400e-003	0.0000	4.8927	4.8927	8.0000e-005	0.0000	4.8946
Total	**1.3700e-003**	**9.1000e-004**	**0.0106**	**5.0000e-005**	**8.7200e-003**	**2.0000e-005**	**8.7400e-003**	**2.3200e-003**	**2.0000e-005**	**2.3400e-003**	**0.0000**	**4.8927**	**4.8927**	**8.0000e-005**	**0.0000**	**4.8946**

3.6 Paving - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0935	0.3382	1.4631	2.5900e-003		0.0108	0.0108		0.0108	0.0108	0.0000	222.9205	222.9205	7.4900e-003	0.0000	223.1078
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0935**	**0.3382**	**1.4631**	**2.5900e-003**		**0.0108**	**0.0108**		**0.0108**	**0.0108**	**0.0000**	**222.9205**	**222.9205**	**7.4900e-003**	**0.0000**	**223.1078**

3.6 Paving - 2042

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7500e-003	1.1600e-003	0.0135	7.0000e-005	0.0111	3.0000e-005	0.0112	2.9600e-003	3.0000e-005	2.9800e-003	0.0000	6.2424	6.2424	1.0000e-004	0.0000	6.2449
Total	**1.7500e-003**	**1.1600e-003**	**0.0135**	**7.0000e-005**	**0.0111**	**3.0000e-005**	**0.0112**	**2.9600e-003**	**3.0000e-005**	**2.9800e-003**	**0.0000**	**6.2424**	**6.2424**	**1.0000e-004**	**0.0000**	**6.2449**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0935	0.3382	1.4631	2.5900e-003		0.0108	0.0108		0.0108	0.0108	0.0000	222.9203	222.9203	7.4900e-003	0.0000	223.1076
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0935**	**0.3382**	**1.4631**	**2.5900e-003**		**0.0108**	**0.0108**		**0.0108**	**0.0108**	**0.0000**	**222.9203**	**222.9203**	**7.4900e-003**	**0.0000**	**223.1076**

3.6 Paving - 2042

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7500e-003	1.1600e-003	0.0135	7.0000e-005	0.0111	3.0000e-005	0.0112	2.9600e-003	3.0000e-005	2.9800e-003	0.0000	6.2424	6.2424	1.0000e-004	0.0000	6.2449
Total	**1.7500e-003**	**1.1600e-003**	**0.0135**	**7.0000e-005**	**0.0111**	**3.0000e-005**	**0.0112**	**2.9600e-003**	**3.0000e-005**	**2.9800e-003**	**0.0000**	**6.2424**	**6.2424**	**1.0000e-004**	**0.0000**	**6.2449**

3.7 Architectural Coating - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	15.9385					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3700e-003	0.0276	0.0681	1.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	9.7024	9.7024	3.4000e-004	0.0000	9.7109
Total	**15.9429**	**0.0276**	**0.0681**	**1.1000e-004**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**9.7024**	**9.7024**	**3.4000e-004**	**0.0000**	**9.7109**

3.7 Architectural Coating - 2042

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0296	0.0197	0.2291	1.1700e-003	0.1883	4.9000e-004	0.1888	0.0500	4.6000e-004	0.0505	0.0000	105.6547	105.6547	1.6800e-003	0.0000	105.6966
Total	**0.0296**	**0.0197**	**0.2291**	**1.1700e-003**	**0.1883**	**4.9000e-004**	**0.1888**	**0.0500**	**4.6000e-004**	**0.0505**	**0.0000**	**105.6547**	**105.6547**	**1.6800e-003**	**0.0000**	**105.6966**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	15.9385					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3700e-003	0.0276	0.0681	1.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	9.7024	9.7024	3.4000e-004	0.0000	9.7109
Total	**15.9429**	**0.0276**	**0.0681**	**1.1000e-004**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**9.7024**	**9.7024**	**3.4000e-004**	**0.0000**	**9.7109**

3.7 Architectural Coating - 2042

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0296	0.0197	0.2291	1.1700e-003	0.1883	4.9000e-004	0.1888	0.0500	4.6000e-004	0.0505	0.0000	105.6547	105.6547	1.6800e-003	0.0000	105.6966
Total	**0.0296**	**0.0197**	**0.2291**	**1.1700e-003**	**0.1883**	**4.9000e-004**	**0.1888**	**0.0500**	**4.6000e-004**	**0.0505**	**0.0000**	**105.6547**	**105.6547**	**1.6800e-003**	**0.0000**	**105.6966**

3.7 Architectural Coating - 2043

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	53.2681					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0146	0.0923	0.2276	3.8000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	32.4263	32.4263	1.1400e-003	0.0000	32.4549
Total	**53.2827**	**0.0923**	**0.2276**	**3.8000e-004**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**32.4263**	**32.4263**	**1.1400e-003**	**0.0000**	**32.4549**

3.7 Architectural Coating - 2043

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0989	0.0658	0.7658	3.9000e-003	0.6294	1.6500e-003	0.6311	0.1673	1.5200e-003	0.1688	0.0000	353.1091	353.1091	5.6000e-003	0.0000	353.2491
Total	**0.0989**	**0.0658**	**0.7658**	**3.9000e-003**	**0.6294**	**1.6500e-003**	**0.6311**	**0.1673**	**1.5200e-003**	**0.1688**	**0.0000**	**353.1091**	**353.1091**	**5.6000e-003**	**0.0000**	**353.2491**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	53.2681					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0146	0.0923	0.2276	3.8000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	32.4263	32.4263	1.1400e-003	0.0000	32.4548
Total	**53.2827**	**0.0923**	**0.2276**	**3.8000e-004**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**32.4263**	**32.4263**	**1.1400e-003**	**0.0000**	**32.4548**

3.7 Architectural Coating - 2043

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0989	0.0658	0.7658	3.9000e-003	0.6294	1.6500e-003	0.6311	0.1673	1.5200e-003	0.1688	0.0000	353.1091	353.1091	5.6000e-003	0.0000	353.2491
Total	**0.0989**	**0.0658**	**0.7658**	**3.9000e-003**	**0.6294**	**1.6500e-003**	**0.6311**	**0.1673**	**1.5200e-003**	**0.1688**	**0.0000**	**353.1091**	**353.1091**	**5.6000e-003**	**0.0000**	**353.2491**

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	9.4873	42.8745	145.4650	0.6997	86.3272	0.3441	86.6713	23.1088	0.3201	23.4288	0.0000	65,161.3866	65,161.3866	2.9509	0.0000	65,235.1580
Unmitigated	9.4873	42.8745	145.4650	0.6997	86.3272	0.3441	86.6713	23.1088	0.3201	23.4288	0.0000	65,161.3866	65,161.3866	2.9509	0.0000	65,235.1580

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,338.15	1,338.15	1338.15	9,040,327	9,040,327
General Light Industry	1,719.32	1,719.32	1719.32	11,615,471	11,615,471
Strip Mall	30,862.61	30,862.61	30862.61	208,502,824	208,502,824
Total	33,920.08	33,920.08	33,920.08	229,158,623	229,158,623

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	18.56	7.30	7.50	100.00	0.00	0.00	100	0	0
General Light Industry	0.00	18.56	0.00	0.00	100.00	0.00	100	0	0
Strip Mall	0.00	18.56	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,542.9350	8,542.9350	0.3439	0.0711	8,572.7319
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,542.9350	8,542.9350	0.3439	0.0711	8,572.7319
NaturalGas Mitigated	0.3263	2.7943	1.2334	0.0178		0.2254	0.2254		0.2254	0.2254	0.0000	3,228.7101	3,228.7101	0.0619	0.0592	3,247.8967
NaturalGas Unmitigated	0.3263	2.7943	1.2334	0.0178		0.2254	0.2254		0.2254	0.2254	0.0000	3,228.7101	3,228.7101	0.0619	0.0592	3,247.8967

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					
Condo/Townhouse	5.83225e+007	0.3145	2.6874	1.1436	0.0172		0.2173	0.2173		0.2173	0.2173	0.0000	3,112.3084	3,112.3084	0.0597	0.0571	3,130.8033
General Light Industry	1.32591e+006	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.7556	70.7556	1.3600e-003	1.3000e-003	71.1760
Strip Mall	855377	4.6100e-003	0.0419	0.0352	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	45.6462	45.6462	8.7000e-004	8.4000e-004	45.9174
Total		**0.3262**	**2.7943**	**1.2334**	**0.0178**		**0.2254**	**0.2254**		**0.2254**	**0.2254**	**0.0000**	**3,228.7101**	**3,228.7101**	**0.0619**	**0.0592**	**3,247.8967**

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					
Condo/Townhouse	5.83225e+007	0.3145	2.6874	1.1436	0.0172		0.2173	0.2173		0.2173	0.2173	0.0000	3,112.3084	3,112.3084	0.0597	0.0571	3,130.8033
General Light Industry	1.32591e+006	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.7556	70.7556	1.3600e-003	1.3000e-003	71.1760
Strip Mall	855377	4.6100e-003	0.0419	0.0352	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	45.6462	45.6462	8.7000e-004	8.4000e-004	45.9174
Total		**0.3262**	**2.7943**	**1.2334**	**0.0178**		**0.2254**	**0.2254**		**0.2254**	**0.2254**	**0.0000**	**3,228.7101**	**3,228.7101**	**0.0619**	**0.0592**	**3,247.8967**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	2.03696e+007	6,656.9649	0.2680	0.0554	6,680.1837
General Light Industry	953140	311.4946	0.0125	2.5900e-003	312.5811
Strip Mall	4.81773e+006	1,574.4755	0.0634	0.0131	1,579.9671
Total		**8,542.9350**	**0.3439**	**0.0711**	**8,572.7319**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	2.03696e+007	6,656.9649	0.2680	0.0554	6,680.1837
General Light Industry	953140	311.4946	0.0125	2.5900e-003	312.5811
Strip Mall	4.81773e+006	1,574.4755	0.0634	0.0131	1,579.9671
Total		**8,542.9350**	**0.3439**	**0.0711**	**8,572.7319**

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	280.0368	5.3150	344.0809	0.5706		44.2031	44.2031		44.2031	44.2031	4,188.6435	1,805.8472	5,994.4906	3.9123	0.3295	6,190.4788
Unmitigated	280.0368	5.3150	344.0809	0.5706		44.2031	44.2031		44.2031	44.2031	4,188.6435	1,805.8472	5,994.4906	3.9123	0.3295	6,190.4788

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	6.9207					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.7828					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	254.4358	4.9688	314.0734	0.5690		44.0361	44.0361		44.0361	44.0361	4,188.6435	1,756.6560	5,945.2995	3.8654	0.3295	6,140.1166
Landscaping	0.8975	0.3462	30.0076	1.5900e-003		0.1670	0.1670		0.1670	0.1670	0.0000	49.1912	49.1912	0.0468	0.0000	50.3622
Total	**280.0368**	**5.3150**	**344.0809**	**0.5706**		**44.2031**	**44.2031**		**44.2031**	**44.2031**	**4,188.6435**	**1,805.8472**	**5,994.4906**	**3.9123**	**0.3295**	**6,190.4788**

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	6.9207					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.7828					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	254.4358	4.9688	314.0734	0.5690		44.0361	44.0361		44.0361	44.0361	4,188.6435	1,756.6560	5,945.2995	3.8654	0.3295	6,140.1166
Landscaping	0.8975	0.3462	30.0076	1.5900e-003		0.1670	0.1670		0.1670	0.1670	0.0000	49.1912	49.1912	0.0468	0.0000	50.3622
Total	**280.0368**	**5.3150**	**344.0809**	**0.5706**		**44.2031**	**44.2031**		**44.2031**	**44.2031**	**4,188.6435**	**1,805.8472**	**5,994.4906**	**3.9123**	**0.3295**	**6,190.4788**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,701.8228	8.3845	0.2099	1,973.9954
Unmitigated	2,127.2785	10.4806	0.2624	2,467.4943

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	264.2 / 166.561	1,812.8429	8.6785	0.2177	2,094.6735
General Light Industry	26.5244 / 0	121.2862	0.8688	0.0214	149.3689
Strip Mall	28.4127 / 17.4143	193.1494	0.9332	0.0234	223.4520
Total		**2,127.2785**	**10.4806**	**0.2624**	**2,467.4943**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	211.36 / 133.248	1,450.2743	6.9428	0.1741	1,675.7388
General Light Industry	21.2195 / 0	97.0289	0.6951	0.0171	119.4951
Strip Mall	22.7302 / 13.9314	154.5196	0.7466	0.0187	178.7616
Total		**1,701.8228**	**8.3845**	**0.2099**	**1,973.9954**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	244.6335	14.4574	0.0000	606.0693
Unmitigated	489.2671	28.9149	0.0000	1,212.1385

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	1865.3	378.6390	22.3769	0.0000	938.0622
General Light Industry	142.23	28.8714	1.7063	0.0000	71.5277
Strip Mall	402.76	81.7566	4.8317	0.0000	202.5486
Total		**489.2671**	**28.9149**	**0.0000**	**1,212.1385**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	932.65	189.3195	11.1885	0.0000	469.0311
General Light Industry	71.115	14.4357	0.8531	0.0000	35.7638
Strip Mall	201.38	40.8783	2.4158	0.0000	101.2743
Total		**244.6335**	**14.4574**	**0.0000**	**606.0693**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation