Greenhouse Gas Analysis for the South Dogwood Annexation Project El Centro, California

Prepared for
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Acronyms and Abbreviations

AB	Assembly Bill
APCD	Air Pollution Control District
AQMD	Air Quality Management District
CAFE	Corporate Average Fuel Economy
CAL FIRE	California Department of Forestry and Fire Protection
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards Code
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBC	California Building Code
CEC	California Energy Commission
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CH_4	Methane
City	City of El Centro
CO_2	carbon dioxide
CO_2E	carbon dioxide equivalent
County	County of Imperial
CPUC	California Public Utilities Commission
EO	Executive Order
GHG	greenhouse gas
GPA	General Plan Amendment
GWP	Global warming potential
ICAPCD	Imperial County Air Pollution Control District
IID	Imperial Irrigation District
LLG	Linscott, Law &Greenspan, Engineers
MMT	million metric ton
mpg	miles per gallon
MT	metric ton
MWh	megawatt hour
N_2O	nitrous oxide
project	South Dogwood Annexation Project
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SB	Senate Bill
SCAG	Southern California Association of Governments
SCS	Sustainable Communities Strategies
SMAQMD	Sacramento Metropolitan Air Quality Management District
SSAB	Salton Sea Air Basin
TDM	Transportation Demand Management
U.S. EPA	U.S. Environmental Protection Agency
VMT	vehicle miles traveled

Executive Summary

The South Dogwood Road Annexation Project (project) consists of the annexation of approximately 67.78 gross acres (65.1 net acres after road right-of-way exclusions) of unincorporated lands to the city of El Centro, a General Plan Amendment (GPA), and a Pre-zone. The GPA and Pre-zone would allow for General Commercial development within the northern and central areas and High Medium Density Residential development in the southern four parcels. No specific development is proposed at this time, but future development at the site is anticipated to include infrastructure improvements and design features in order to meet regulatory requirements and provide sufficient infrastructure to serve the future development.

This report evaluates the potential global climate change impacts associated with the project. In accordance with California Environmental Quality Act guidance, this analysis evaluates the significance of the project in terms of (1) its contribution of greenhouse gases (GHGs) to cumulative statewide emissions, and (2) whether the project would conflict with local and/or state regulations, plans, and policies adopted to reduce GHG emissions.

No GHG emission significance threshold has been adopted by the City or the Imperial County Air Pollution Control District. Project GHG emissions were evaluated consistent with guidance from other similar air districts consisting of the Antelope Valley Air Quality Management District and the Mojave Desert Air Pollution Control District. These two districts use a GHG emissions significance threshold of 100,000 short tons (90,718 metric tons [MT]) of carbon dioxide equivalent (CO_2E) per year. As calculated in this analysis, the existing land uses would emit 1,096 MT CO_2E in 2025 and the proposed project would result in 22,235 MT CO_2E in 2025 for a net increase of 21,139 MT CO_2E. As the emissions associated with the project would be less than the significance threshold, the project's contribution of GHG emissions to cumulative emissions would be less than cumulatively considerable and impacts would be less than significant.

Additionally, the project would not conflict with implementation of an applicable State plan, policy, or regulation. Future development of the project site would be conditioned to include several transportation-related features that would support achievement of the regional goals outlined by the 2016 Regional Transportation Plan/Sustainable Communities Strategy. Impacts would be less than significant.

1.0 Introduction

1.1 Purpose of the Report

This report evaluates the significance of greenhouse gas (GHG) emissions associated with the proposed South Dogwood Annexation Project (project). This report characterizes existing conditions at the project site and in the region, identifies applicable rules and regulations, and assesses impacts related to GHG emissions associated with construction and operation of the project.

1.2 Project Description

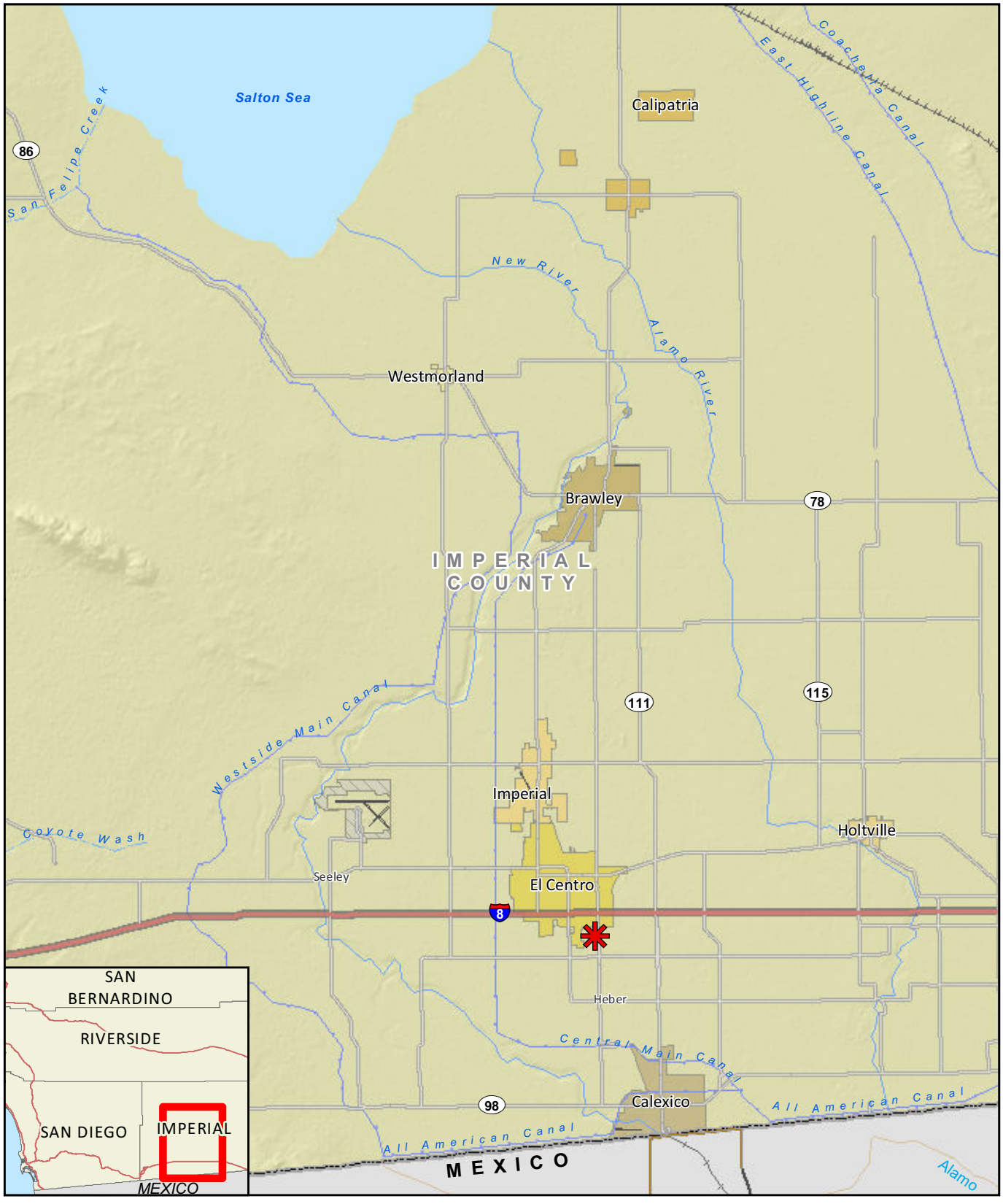
The project consists of the annexation of approximately 67.78 gross acres (65.1 net acres after road right-of-way exclusions) of Imperial County (County) unincorporated lands to the City of El Centro (City), a General Plan Amendment (GPA) and a Pre-zone. The property lies along the west side of Dogwood Avenue, from Danenberg Drive to 660 feet north of McCabe Road. Figure 1 shows the regional location and Figure 2 shows an aerial photograph of the project site and vicinity. No specific development is proposed at this time, but future development at the site is anticipated to include infrastructure improvements and design features in order to meet regulatory requirements and provide sufficient infrastructure to serve the future development.

1.2.1 General Plan Amendment

The County currently designates the site as Urban Area, a designation that is intended to cover areas anticipated to be annexed or incorporated into neighboring cities. The El Centro General Plan designates the site as General Industrial Development (northern portion of site) and Low Density Residential (southern portion of site). Concurrent with the application for annexation, the landowners have applied for a GPA to allow for General Commercial development within the northern and central areas and High Medium Density Residential development in the southern four parcels. Figure 3 shows the proposed land use designations.

1.2.2 Pre-zone

The site is currently zoned Medium Industrial Development by the County. As the site is not currently in the City, there is no existing City zoning for the site. The project area is proposed to be zoned CG (General Commercial), except for the southern 1,528 feet (11.97 acres) which is proposed to be zoned R-3 (High Density Residential).The southern area proposed for R-3 (High Density Residential) consists of assessor parcel numbers 054-390-089, 054-390-050, 054-390-051 and 054-390-052.



Project Location

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FIGURE 1
Regional Location

Image Source: Nearmap (flown September 2019)

Project Boundary

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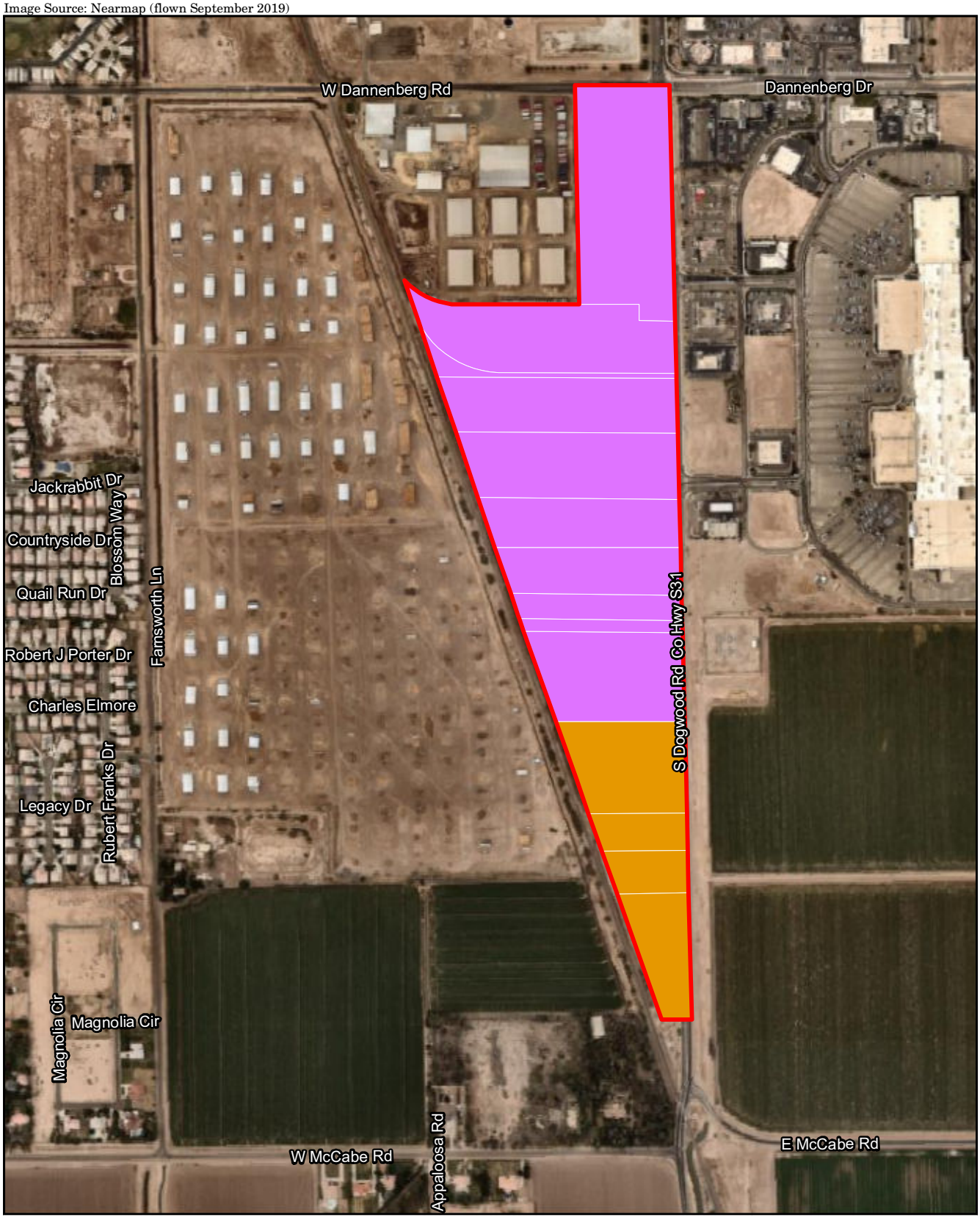
FIGURE 2

Project Location on Aerial Photograph

Image Source: Nearmap (flown September 2019)



Project Boundary

Land Use Designation

High Medium Density Residential

General Commercial

0 Feet 700

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FIGURE 3

Proposed Land Use Designations

At this time, no specific project is proposed. This analysis is based on the assumption of future retail/commercial and multi-family land uses. The total project area is 65.1 acres, with 53.13 acres for retail commercial and 11.97 acres for residential uses. The retail/commercial square footage and number of residential units were estimated as follows:

- **Retail/Commercial** – It is assumed that the retail/commercial square footage is 30% of the total acreage (53.13 acres), or 30% x 53.13 acres x 43,560 square feet = 694,303 square feet.

- **Residential** – A density of 16 units per acre is assumed for the residential, or 16 units x 11.97 acres = 191 dwelling units.

1.2.3 Infrastructure Improvements

Additional right-of-way, pavements, curbs, sidewalk and street lights will be required along the Danenberg Drive and Dogwood Avenue frontages for full build-out of those 4- and 6-lane arterial streets. There are existing pressurized City water lines in Danenberg Drive and Dogwood Avenue, to the south end of the Imperial Valley Mall. A water line extension will be needed for future development to the south of the existing water main and it is likely that a 2,650-foot water line loop will be required to the west (to connect to a water main in Farnsworth Lane) (City of El Centro 2019). New gravity flow sewer mains will be needed in Dogwood Avenue (flowing north) and Danenberg Drive (flowing west to the Union Pacific Railroad [UPRR] tracks).

The City is currently planning to construct a regional sewer lift station (Southern Lift Station) along Danenberg Drive, west of the UPRR tracks, that will include a gravity sewer main extension to the east side of the UPRR tracks, where a new sewer main from the newly annexed lands will connect. The properties within the proposed annexation area have natural ground surface elevations that drain to the north and the west. It is planned to create storm water basins along the UPRR right-of-way with a central storm water collection pipeline which will flow northerly to the southeast corner of Danenberg Drive and the UPRR. The new storm water pipeline will flow to an existing drainage water pipeline which exists below the UPRR tracks and empties into a deep private earthen drainage channel that extends from the UPRR tracks to the Imperial Irrigation District's Date Drain No. 3 (at Farnsworth Lane). A gravel service road is planned to be constructed along the east side of the UPRR right-of-way to allow access to the new storm water pipeline and new storm water storage basins.

1.2.4 Project Access

The Imperial Valley Mall is located opposite the project site, on the east side of Dogwood Avenue. Currently, there are two signalized access intersections, the Dogwood Avenue/North Mall Driveway (Chili's) and the Dogwood Avenue/South Mall Driveway (ARCO) along the project frontage providing access to the Imperial Valley Mall. It is assumed that the fourth (west leg) of these existing signalized intersections will provide access to the retail/commercial portion of the project. A third, new access driveway is

assumed to provide access to the residential portion of the project (Linscott, Law & Greenspan, Engineers [LLG] 2019).

1.3 Greenhouse Gases of Primary Concern

There are numerous GHGs, both naturally occurring and manmade. Each GHG has variable atmospheric lifetime and global warming potential (GWP). The atmospheric lifetime of the gas is the average time a molecule stays stable in the atmosphere. Most GHGs have long atmospheric lifetimes, staying in the atmosphere hundreds or thousands of years. GWP is a measure of the potential for a gas to trap heat and warm the atmosphere. Although GWP is related to its atmospheric lifetime, many other factors including chemical reactivity of the gas also influence GWP. GWP is reported as a unitless factor representing the potential for the gas to affect global climate relative to the potential of carbon dioxide (CO_2). Because CO_2 is the reference gas for establishing GWP, by definition its GWP is 1. Although methane (CH_4) has a shorter atmospheric lifetime than CO_2, it has a 100-year GWP of 25; this means that CH_4 has 25 times more effect on global warming than CO_2 on a molecule-by-molecule basis.

The GWP is officially defined as "[T]he cumulative radiative forcing—both direct and indirect effects—integrated over a period of time from the emission of a unit mass of gas relative to some reference gas" (U.S. Environmental Protection Agency [U.S. EPA] 2010). GHG emissions estimates are typically represented in terms of metric tons (MT) of CO_2 equivalent (CO_2E). CO_2E emissions are the product of the amount of each gas by its GWP. The effects of several GHGs may be discussed in terms of MT CO_2E and can be summed to represent the total potential of these gases to warm the global climate. Table 1 summarizes some of the most common GHGs.

All of the gases in Table 1 are produced by both biogenic (natural) and anthropogenic (human) sources. These are the GHGs of primary concern in this analysis. CO_2 would be emitted by the project due to the combustion of fossil fuels in vehicles (including construction), from electricity generation and natural gas consumption, water use, and from solid waste disposal. Smaller amounts of CH_4 and nitrous oxide (N_2O) would be emitted from these activities.

Table 1 Global Warming Potentials and Atmospheric Lifetimes			
Gas	Atmospheric Lifetime (years)	100-year GWP	20-year GWP
Carbon dioxide (CO_2)	50–200	1	1
Methane (CH_4)*	12.4	28	84
Nitrous oxide (N_2O)	121	265	264
HFC-23	222	12,400	10,800
HFC-32	5.2	677	2,430
HFC-125	28.2	3,170	6,090
HFC-134a	13.4	1,300	3,710
HFC-143a	47.1	4,800	6,940
HFC-152a	1.5	138	506
HFC-227ea	38.9	3,350	5,360
HFC-236fa	242	8,060	6,940
HFC-43-10mee	16.1	1,650	4,310
CF_4	50,000	6,630	4,880
C_2F_6	10,000	11,100	8,210
C_3F_8	2,600	8,900	6,640
C_4F_{10}	2,600	9,200	6,870
c-C_4F_8	3,200	9,540	7,110
C_5F_{12}	4,100	8,550	6,350
C_6F_{14}	3,100	7,910	5,890
SF_6	3,200	23,500	17,500
SOURCE: Intergovernmental Panel on Climate Change 2014.			

2.0 Regulatory Background

In response to rising concern associated with increasing GHG emissions and global climate change impacts, several plans and regulations have been adopted at the international, national, and state levels with the aim of reducing GHG emissions. The following is a discussion of the federal, state, and local plans and regulations most applicable to the project.

2.1 Federal

The federal government, U.S. EPA, and other federal agencies have many federal level programs and projects to reduce GHG emissions. In June 2012, the Council on Environmental Quality (CEQ) revised the Federal Greenhouse Gas Accounting and Reporting Guidance originally issued in October 2010. The CEQ guidance identifies ways in which federal agencies can improve consideration of GHG emissions and climate change for federal actions. The guidance states that National Environmental Policy Act documents should provide decision makers with relevant and timely information and should consider (1) GHG emissions of a Proposed Action and alternative actions, and (2) the relationship of climate change effects to a Proposed Action or alternatives. Specifically, if a Proposed Action would be reasonably anticipated to cause direct emissions of 25,000 MT CO_2E GHG emissions on an annual basis, agencies should consider this as an indicator that a quantitative assessment may be meaningful to decision makers and the public (CEQ 2012).

2.1.1 U.S. Environmental Protection Agency

The U.S. EPA has many federal level programs and projects to reduce GHG emissions. The U.S. EPA provides technical expertise and encourages voluntary reductions from the private sector. One of the voluntary programs applicable to the project is the Energy Star program.

Energy Star is a joint program of U.S. EPA and the U.S. Department of Energy, which promotes energy-efficient products and practices. Tools and initiatives include the Energy Star Portfolio Manager, which helps track and assess energy and water consumption across an entire portfolio of buildings, and the Energy Star Most Efficient 2013, which provides information on exceptional products which represent the leading edge in energy efficient products in the year 2013 (U.S. EPA 2013).

The U.S. EPA also collaborates with the public sector, including states, tribes, localities and resource managers, to encourage smart growth, sustainability preparation, and renewable energy and climate change preparation. These initiatives include the Clean Energy – Environment State Partnership Program, the Climate Ready Water Utilities Initiative, the Climate Ready Estuaries Program, and the Sustainable Communities Partnership (U.S. EPA 2014).

2.1.2 Corporate Average Fuel Economy Standards

The federal Corporate Average Fuel Economy (CAFE) standards determine the fuel efficiency of certain vehicle classes in the U.S. While the standards had not changed since 1990, as part of the Energy and Security Act of 2007, the CAFE standards were increased in 2007 for new light-duty vehicles to 35 miles per gallon (mpg) by 2020. In May 2009, plans were announced to further increase CAFE standards to require light-duty vehicles to meet an average fuel economy of 35.5 mpg by 2016. In August 2012, fuel economy standards were further increased to 54.5 mpg for cars and light-duty trucks by Model Year 2025; this will nearly double the fuel efficiency of those vehicles compared to new vehicles currently on our roads. With improved gas mileage, fewer gallons of transportation fuel would be combusted to travel the same distance, thereby reducing nationwide GHG emissions associated with vehicle travel.

2.2 State

2.2.1 Executive Orders and Statewide GHG Emission Targets

S-3-05

This Executive Order (EO) established the following GHG emission reduction targets for the State of California:

- by 2010, reduce GHG emissions to 2000 levels;
- by 2020, reduce GHG emissions to 1990 levels; and
- by 2050, reduce GHG emissions to 80 percent below 1990 levels.

This EO also directs the secretary of the California Environmental Protection Agency to oversee the efforts made to reach these targets, and to prepare biannual reports on the progress made toward meeting the targets and on the impacts to California related to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry. With regard to impacts, the report shall also prepare and report on mitigation and adaptation plans to combat the impacts. The first Climate Action Team Assessment Report was produced in March 2006, and has been updated every two years.

B-30-15

This EO, issued on April 29, 2015, establishes an interim GHG emission reduction goal for the state of California by 2030 of 40 percent below 1990 levels. This EO also directed all state agencies with jurisdiction over GHG emitting sources to implement measures designed to achieve the new interim 2030 goal, as well as the pre-existing, long-term 2050 goal identified in EO S-3-05. Additionally, this EO directed CARB to update its Climate Change Scoping Plan to address the 2030 goal.

2.2.2 California Global Warming Solutions Act

In response to EO S-3-05, the California Legislature passed Assembly Bill (AB) 32, the California Global Warming Solutions Act of 2006, and thereby enacted Sections 38500–38599 of the California Health and Safety Code. The heart of AB 32 is its requirement that CARB establish an emissions cap and adopt rules and regulations that would reduce GHG emissions to 1990 levels by 2020. AB 32 also required CARB to adopt a plan by January 1, 2009 indicating how emission reductions would be achieved from significant GHG sources via regulations, market mechanisms, and other actions.

Approved in September 2016, Senate Bill (SB) 32 updates the California Global Warming Solutions Act of 2006 and enacts EO B-30-15. Under SB 32, the state would reduce its GHG emissions to 40 percent below 1990 levels by 2030. In implementing the 40 percent reduction goal, CARB is required to prioritize emissions reductions to consider the social

costs of the emissions of GHGs; where "social costs" is defined as "an estimate of the economic damages, including, but not limited to, changes in net agricultural productivity; impacts to public health; climate adaptation impacts, such as property damages from increased flood risk; and changes in energy system costs, per metric ton of greenhouse gas emission per year."

2.2.3 Climate Change Scoping Plan

As directed by the California Global Warming Solutions Act of 2006, in 2008, CARB adopted the Climate Change Scoping Plan: A Framework for Change (Scoping Plan), which identifies the main strategies California will implement to achieve the GHG reductions necessary to reduce forecasted business as usual emissions in 2020 to the state's historic 1990 emissions level (CARB 2008). In November 2017, CARB released the 2017 Climate Change Scoping Plan Update, the Strategy for Achieving California's 2030 Greenhouse Gas Target (2017 Scoping Plan; CARB 2017). The 2017 Scoping Plan identifies state strategies for achieving the state's 2030 interim GHG emissions reduction target codified by SB 32. Measures under the 2017 Scoping Plan Scenario build on existing programs such as the Low Carbon Fuel Standard, Advanced Clean Cars Program, Renewables Portfolio Standard (RPS), Sustainable Communities Strategy, Short-Lived Climate Pollutant Reduction Strategy, and the Cap-and-Trade Program. Additionally the 2017 Scoping Plan proposes new policies to address GHG emissions from natural and working lands.

2.2.4 Cap-and-Trade Program

The California Cap-and-Trade Program began in January 2013 and is authorized to continue until the end of 2030. The program is a market-based regulation that is designed to reduce GHG emissions associated with major sources by setting a firm cap on overall GHG emissions from covered entities and gradually reducing that cap over time. The program defines major sources as facilities that generate more than 25,000 MT CO_2E per year, which includes many electricity generators, refineries, cement production facilities, oil and gas production facilities, glass manufacturing facilities, and food processing plants. Each entity covered by the program is allocated specific GHG emission allowances and is able to buy or sell additional offset credits to other major sources-covered entities. Thus, the program employs market mechanisms to cost-effectively reduce overall GHG emissions. Throughout the program's duration, CARB continues to adjust the overall GHG emissions cap to achieve emission levels consistent with 2020 statewide GHG emission reduction targets established by AB 32 and the 2030 statewide GHG emission reduction targets established by SB 32.

2.2.5 Regional Emissions Targets—SB 375

SB 375, the 2008 Sustainable Communities and Climate Protection Act, was signed into law in September 2008 and requires CARB to set regional targets for reducing passenger vehicle GHG emissions in accordance with the Original Scoping Plan. The purpose of SB 375 is to align regional transportation planning efforts, regional GHG emissions reduction targets and fair-share housing allocations under state housing law. SB 375

requires Metropolitan Planning Organizations to adopt a Sustainable Communities Strategy (SCS) or Alternative Planning Strategy to address GHG reduction targets from cars and light-duty trucks in the context of that Metropolitan Planning Organizations' Regional Transportation Plan (RTP).

The Southern California Association of Governments (SCAG) adopted the 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy, A Plan for Mobility, Accessibility, Sustainability and a High Quality of Life (2016 RTP/SCS) in April 2016. The main goal of the 2016 RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. CARB's targets for the SCAG region call for an 8 percent reduction in GHG emissions per capita from automobiles and light-duty trucks compared to 2005 levels by 2020, and a 19 percent reduction by 2035. The overarching strategy of the 2016 RTP/SCS is to create more compact communities in existing urban areas, providing neighborhoods with efficient and plentiful public transit, abundant and safe opportunities to walk, bike, and pursue other forms of active transportation, and preserving more of the region's remaining natural lands.

Pursuant to Government Code Section 65080(b)(2)(K), a SCS does not: (i) regulate the use of land; (ii) supersede the land use authority of cities and counties; or (iii) require that a City's or County's land use policies and regulations, including those in a general plan, be consistent with it. Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process.

2.2.6 Renewables Portfolio Standard

The RPS promotes diversification of the state's electricity supply and decreased reliance on fossil fuel energy sources. Originally adopted in 2002 with a goal to achieve a 20 percent renewable energy mix by 2020 (referred to as the "Initial RPS"), the goal has been accelerated and increased by EOs S-14-08 and S-21-09 to a goal of 33 percent by 2020. In April 2011, SB 2 (1X) codified California's 33 percent RPS goal. In September 2015, the California Legislature passed SB 350, which increases California's renewable energy mix goal to 50 percent by year 2030. Renewable energy includes (but is not limited to) wind, solar, geothermal, small hydroelectric, biomass, anaerobic digestion, and landfill gas.

2.2.7 Assembly Bill 341 – Solid Waste Diversion

The Commercial Recycling Requirements mandate that businesses (including public entities) that generate four cubic yards or more of commercial solid waste per week and multi-family residential with five units or more arrange for recycling services. Businesses can take one or any combination of the following in order to reuse, recycle, compost, or otherwise divert solid waste from disposal. Additionally, AB 341 mandates that 75 percent of the solid waste generated be reduced, recycled, or composted by 2020.

2.2.8 California Code of Regulations, Title 24 – California Building Code

The California Code of Regulations, Title 24, is referred to as the California Building Code, or CBC. It consists of a compilation of several distinct standards and codes related to building construction, including plumbing, electrical, interior acoustics, energy efficiency, handicap accessibility, and so on. Of particular relevance to GHG reductions are the CBC's energy efficiency and green building standards as outlined below.

Title 24, Part 6 – Energy Efficiency Standards

The California Code of Regulations, Title 24, Part 6 is the California Energy Efficiency Standards for Residential and Nonresidential Buildings (also known as the California Energy Code). This code, originally enacted in 1978, establishes energy efficiency standards for residential and non-residential buildings in order to reduce California's energy consumption. The Energy Code is updated periodically to incorporate and consider new energy-efficient technologies and methodologies as they become available, and incentives in the form of rebates and tax breaks are provided on a sliding scale for buildings achieving energy efficiency above the minimum standards.

The current version of the Energy Code, known as 2016 Title 24, or the 2016 Energy Code, became effective January 1, 2017. The 2016 Energy Code provides mandatory energy-efficiency measures as well as voluntary tiers for increased energy efficiency. The California Energy Commission (CEC), in conjunction with the California Public Utilities Commission, has adopted a goal that all new residential and commercial construction achieve zero net energy by 2020 and 2030, respectively. It is expected that achievement of the zero net energy goal will occur via revisions to the Title 24 standards.

New construction and major renovations must demonstrate their compliance with the current Energy Code through submission and approval of a Title 24 Compliance Report to the local building permit review authority and the CEC. The compliance reports must demonstrate a building's energy performance through use of CEC approved energy performance software that shows iterative increases in energy efficiency given the selection of various heating, ventilation, and air conditioning; sealing; glazing; insulation; and other components related to the building envelope.

Title 24, Part 11 – California Green Building Standards

The California Green Building Standards Code, referred to as CALGreen, was added to Title 24 as Part 11 first in 2009 as a voluntary code, which then became mandatory effective January 1, 2011 (as part of the 2010 CBC). The 2016 CALGreen institutes mandatory minimum environmental performance standards for all ground-up new construction of non-residential and residential structures. Local jurisdictions must enforce the minimum mandatory Green Building Standards and may adopt additional amendments for stricter requirements.

The mandatory standards require:

- Outdoor water use requirements as outlined in Model Water Efficient Landscape Ordinance emergency standards;
- 20 percent mandatory reduction in indoor water use relative to specified baseline levels;
- 65 percent construction/demolition waste diverted from landfills;
- Infrastructure requirements for electric vehicle charging stations;
- Mandatory inspections of energy systems to ensure optimal working efficiency; and
- Requirements for low-pollutant emitting exterior and interior finish materials such as paints, carpets, vinyl flooring, and particleboards.

Similar to the reporting procedure for demonstrating Energy Code compliance in new buildings and major renovations, compliance with the CALGreen water reduction requirements must be demonstrated through completion of water use reporting forms for new low-rise residential and non-residential buildings. The water use compliance form must demonstrate a 20 percent reduction in indoor water use by either showing a 20 percent reduction in the overall baseline water use as identified in CALGreen or a reduced per-plumbing-fixture water use rate.

2.3 Local

The City General Plan includes several climate change-related policies aimed at reducing GHG emissions from future development and City operations (City of El Centro 2004). GHG policies are related to public outreach, land use patterns, alternative modes of transportation, energy efficiency, and water conservation. The use of other modes of transportation such as public transit, walking, bicycling, and ridesharing are promoted to reduce the demand for transportation system improvements and to improve air quality. The Conservation/Open Space Element discusses reducing pollutant levels through stationary source, mobile source, transportation and land use control, and energy conservation measures.

3.0 Existing Conditions

3.1 State GHG Inventory

The California Air Resources Board (CARB) performs statewide GHG inventories. The inventory is divided into nine broad sectors of economic activity: agriculture, commercial, electricity generation, forestry, high GWP emitters, industrial, recycling and waste, residential, and transportation. Emissions are quantified in million metric tons (MMT) of CO_2E. Table 2 shows the estimated statewide GHG emissions for the years 1990, 2005, and 2016.

Table 2 California Greenhouse Gas Emissions by Sector in 1990, 2008, and 2016			
Emissions Sector	1990 Emissions in MMT CO_2E (% total)[1,2]	2005 Emissions in MMT CO_2E (% total)[2,3,4]	2016 Emissions in MMT CO_2E (% total)[2,3,4]
Agriculture	23.4 (5%)	34.26 (7%)	33.84 (8%)
Commercial	14.4 (3%)	14.27 (3%)	15.16 (4%)
Electricity Generation	110.6 (26%)	107.85 (22%)	68.58 (16%)
High Global Warming Potential	--	9.26 (2%)	19.78 (5%)
Industrial	103.0 (24%)	95.93 (20%)	89.61 (21%)
Recycling and Waste	--	7.78 (2%)	8.73 (2%)
Residential	29.7 (7%)	27.98 (6%)	24.20 (6%)
Transportation	150.7 (35%)	188.74 (38%)	169.38 (39%)
Forestry (Net CO_2 flux)	*-6.5*	--	--
Not Specified	1.3	--	--
TOTAL	**426.6**	**486.1**	**429.4**

SOURCE: CARB 2007 and 2018.
MMT CO_2E = million metric tons of CO_2 equivalent
[1] 1990 data was retrieved from the CARB 2007 source.
[2] Quantities and percentages may not total properly due to rounding.
[3] 2005 and 2015 data was retrieved from the CARB 2018 source.
[4] Reported emissions for key sectors. The inventory totals for 2005 and 2015 did not include Forestry or Not Specified sources.

As shown in Table 2, statewide GHG source emissions totaled about 427 MMT CO_2E in 1990, 486 MMT CO_2E in 2005, and 429 MMT CO_2E in 2016. Many factors affect year-to-year changes in GHG emissions, including economic activity, demographic influences, environmental conditions such as drought, and the impact of regulatory efforts to control GHG emissions. However, transportation-related emissions consistently contribute the most GHG emissions, followed by electricity generation and industrial emissions.

3.2 On-Site GHG Emissions

There are 13 individual parcels included within the proposed annexation area, owned by four different landowners. The properties are largely vacant or developed land with light to medium industrial properties, a mini-storage facility, and two rural single-family residences. Current sources of GHG emissions associated with the project site include vehicle traffic, energy use, area sources, water use, and solid waste generation. As calculated in Section 6.0 in this analysis, year 2025 GHG emissions associated with the existing land uses would be 1,096 MT CO_2E annually.

4.0 Thresholds of Significance

Appendix G, Environmental Checklist, of the California Environmental Quality Act (CEQA) Guidelines includes the following two questions regarding the assessment of GHG emissions:

1) Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

2) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emission of GHGs?

The CEQA Guidelines require Lead Agencies to adopt GHG thresholds of significance. When adopting these thresholds, the amended Guidelines allow Lead Agencies to develop their own significance thresholds and/or to consider thresholds of significance adopted or recommended by other public agencies, or recommended by experts, provided that the thresholds are supported by substantial evidence.

The project site is in the Salton Sea Air Basin (SSAB). The Imperial County Air Pollution Control District (ICAPCD) is responsible for regulating air quality within the Imperial County portion of the SSAB. No GHG emission significance threshold has been adopted by the City or the ICAPCD for land development projects. Thus, in the absence of a threshold of significance for GHG emissions that has been adopted in a public process following environmental review, this analysis considers guidance promulgated by other agencies.

The City is a member of SCAG. SCAG is comprised of several different counties including Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties. Air districts responsible for managing air quality of within the SCAG boundaries include the South Coast Air Quality Management District (AQMD), the Mojave Desert Air Pollution Control District (APCD), Ventura County APCD, and the Antelope Valley AQMD.

Due to the climate and land use patterns, the Antelope Valley AQMD and Mojave Desert APCD are air districts that are most similar to the ICAPCD's jurisdiction. These jurisdictions are in inland desert regions with rural land use patterns; with a substantial number large-scale agricultural, warehousing/distribution, industrial, and military operations. Additionally, both of these agencies have adopted GHG thresholds for use in CEQA analysis. As outlined in the Antelope Valley AQMD's 2016 *California Environmental Quality Act (CEQA) and Federal Conformity Guidelines and Mojave Desert APCD's 2016 California Environmental Quality Act (CEQA) and Federal Conformity Guidelines,* the two air districts both recommend use of a GHG emissions significance threshold of 100,000 short tons of CO_2E per year (90,718 MT CO_2E). Projects with emissions that exceed this threshold are required to incorporate mitigation sufficient to reduce emissions to less than this significance threshold or must incorporate all feasible mitigation.

This recommended significance threshold is consistent with the federal trigger level for GHG emissions "subject to regulation" under the U.S. EPA's Clean Air Act Title V

Permitting requirements (40 Code of Federal Regulations 70.2). Additionally, as ICAPCD Title IX Regulations are based on Clean Air Act Title V Permitting requirements, this recommended significance threshold is also consistent with local ICAPCD Rule 900–Procedures for Issuing Permits to Operate for Sources Subject to Title V of the Federal Clean Air Act Amendments of 1990 and Rule 904–Prevention of Significant Deterioration Permit Program.

In the absence of adopted GHG significance thresholds, the City of El Centro has determined the threshold of 90,718 MT CO_2E is an appropriate CEQA significance threshold for the assessment of GHG emissions for the purposes of this project.

5.0 Calculation Methodology and Assumptions

Implementation of the project would result in GHG emissions associated with the construction and operation of the project. GHG emissions were calculated using California Emissions Estimator Model (CalEEMod) Version 2016.3.2 (California Air Pollution Control Officers Association [CAPCOA] 2017). The CalEEMod program is a tool used to estimate emissions resulting from land development projects in the state of California.

CalEEMod estimates parameters such as the type and amount of construction equipment required, trip generation, and utility consumption based on the size and type of each specific land use using data collected from surveys performed in South Coast AQMD. Where available, parameters were modified to reflect project-specific data. GHG emissions were calculated for the soonest full-buildout operational year of 2025. Annual GHG emissions beyond year 2025 would be less with implementation of vehicle regulations and RPS.

5.1 Construction Emissions

Construction activities emit GHGs primarily though 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 the commute vehicles of the construction workers. Smaller amounts of GHGs are also emitted through the energy use embodied in water use for fugitive dust control.

Construction emissions are calculated for construction activity based on the construction equipment profile and other factors determined as needed to complete all phases of construction. Based on Guidance from the South Coast AQMD, total construction GHG emissions resulting from a project should be amortized over a period of 30 years and added to operational GHG emissions to account for their contribution to GHG emissions over the lifetime of a project (South Coast AQMD 2009).

No specific development is proposed at this time; thus, construction phasing and equipment parameters are not available at this time. Nonetheless, air emissions may be estimated when project-specific information is unavailable using construction data built-in to

CalEEMod. Construction emissions were calculated assuming total buildout of the project site would occur all at once over the CalEEMod default construction period of approximately five years. Primary inputs are the numbers of each piece of equipment and the length of each construction stage. The construction equipment estimates are based on surveys, performed by the South Coast Air Quality Management District and the Sacramento Metropolitan Air Quality Management District (SMAQMD), of typical construction projects which provide a basis for scaling equipment needs and schedule with a project's size. GHG emission estimates in CalEEMod are based on the duration of construction phases; construction equipment type, quantity, and usage; grading area; season; and ambient temperature, among other parameters.

The equipment anticipated to be used in project construction is shown below in Table 3.

Table 3
Construction Schedule and Equipment

Construction Activity/ Equipment Type	Quantity	Horsepower	Load Factor	Hours/Day
Demolition (70 days)				
Concrete/Industrial Saws	1	81	0.73	8
Excavators	3	158	0.38	8
Rubber Tired Dozers	2	247	0.40	8
Site Preparation (40 days)				
Rubber Tired Dozers	3	247	0.40	8
Tractors/Loaders/Backhoes	4	97	0.37	8
Grading (110 days)				
Excavators	2	158	0.38	8
Graders	1	187	0.41	8
Rubber Tired Dozers	1	247	0.40	8
Scrapers	2	367	0.48	8
Tractors/Loaders/Backhoes	2	97	0.37	8
Building Construction (1,110 days)				
Cranes	1	231	0.29	7
Forklifts	3	89	0.20	8
Generator Sets	1	84	0.74	8
Tractors/Loaders/Backhoes	3	97	0.37	7
Welders	1	46	0.45	8
Paving (75 days)				
Pavers	2	130	0.42	8
Paving Equipment	2	132	0.36	8
Rollers	2	80	0.38	8
Architectural Coatings (555 days – simultaneous with half of building construction)				
Air Compressors	1	78	0.48	6

CalEEMod calculates emissions of all pollutants from construction equipment using emission factors from CARB's off-road diesel equipment emission factors database, OFFROAD 2011 (CARB 2011).

The ICAPCD requires that, regardless of the size of a project, all feasible standard measures for construction equipment must be implemented at construction sites. Standard measures from the ICAPCD handbook are listed below.

Standard Measures for Construction Combustion Equipment

a) Use of alternative fueled or catalyst equipped diesel construction equipment, including all off-road and portable diesel powered equipment.

b) Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes as a maximum.

c) Limit, to the extent feasible, the hours of operation of heavy duty equipment and/or the amount of equipment in use.

d) Replace fossil fueled equipment with electrically driven equivalents (provided they are not run via a portable generator set).

5.2 Mobile Emissions

Emissions from vehicles come from the combustion of fossil fuels in vehicle engines. Mobile emissions are estimated in CalEEMod by first calculating trip rate, trip length, trip purpose (e.g., home to work, home to shop, home to other), and trip type percentages for each land use type and quantity.

CalEEMod calculates mobile source emissions using emission factors derived from CARB's motor vehicle emission inventory program, EMFAC2014 (CARB 2014a). At complete buildout, the project would generate a total of 23,492 daily trips without accounting for pass-by trips (LLG 2019). Standard countywide trip lengths for each trip type were used to determine total project vehicle miles traveled (CAPCOA 2017). The vehicle emission factors and fleet mix used in CalEEMod are derived from EMFAC2014.

As discussed in the Air Quality Analysis prepared for the project (RECON 2019), the future development of the project site would be conditioned to include several features that would reduce single-passenger vehicle ridership and encourage walking, biking, carpooling, transit, or other modes of alternative transit. These required measures include preparation of a Transportation Demand Management (TDM) plan and roadway improvements (includes extension or sidewalks).

In the absence of specific development details such as specific site layout, employment, etc. it is difficult to estimate the vehicle miles traveled (VMT) reduction associated with sustainability features such as TDM plans, shower and locker facilities, bicycle parking, new transit stops, etc. No credit was taken for VMT reductions associated with project sustainability features. Thus, actual GHG emissions from mobile sources would be less than those calculated in this analysis.

5.3 Energy Use Emissions

Energy use emissions include direct emissions associated with the combustion of on-site fuel sources, such as natural gas, and indirect GHG emissions associated with the generation of electricity from fossil fuels off-site in power plants.

Project energy use was estimated based on the size of the proposed land uses using data compiled from South Coast AQMD surveys and incorporated into CalEEMod. These surveys include the California Energy Commission-sponsored California Commercial End Use Survey and Residential Appliance Saturation Survey studies, which identify energy use by building type and climate zone. By default, energy use factors in CalEEMod reflect the most recent 2016 Title 24 energy efficiency requirements.

The project would be served by Imperial Irrigation District (IID). Therefore, IID's specific energy-intensity factors (i.e., the amount of CO_2, CH_4, and N_2O per kilowatt-hour) are used in the estimation of GHG emissions from project electricity demand. As discussed, the state mandate for renewable energy is 33 percent by 2020 and 50 percent by 2030; however, the energy-intensity factors included in CalEEMod by default only represent an 8.3 percent procurement of renewable energy (Senate Energy, Utilities and Communications Committee 2012). Project emission estimates were modeled accounting for reductions achieved by 33 percent renewable energy procurement. Project emissions in 2025 were modeled conservatively using anticipated energy intensity factors for the year 2020; no credit was taken for additional renewable energy procurement between 2020 and 2025. IID energy intensity factors used in modeling are shown in Table 4.

Table 4
Imperial Irrigation District Energy Intensity Factors

Gas	2010 Factors (lbs/MWh)	2020 Factors (lbs/MWh)	2030 Factors (lbs/MWh)
Carbon Dioxide (CO_2)	1270.90	922.18	688.19
Methane (CH_4)	0.029	0.021	0.016
Nitrous Oxide (N_2O)	0.006	0.004	0.003

SOURCE: Senate Energy, Utilities and Communications Committee 2012.
lbs = pounds; MWh = megawatt hour

Emissions resulting from natural gas consumption were calculated in CalEEMod by multiplying natural gas consumption by standard emission factors published by the U.S. EPA's AP-42: Compilation of Air Pollutant Emissions Factors.

5.4 Area Source Emissions

Area sources include GHG emissions that would occur from the use of landscaping equipment. The use of landscape equipment emits GHGs associated with the equipment's fuel combustion. Landscaping equipment emission values were derived from the 2011 In-Use Off-Road Equipment Inventory Model (CARB 2011).

5.5 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 CH_4 and N_2O.

The indoor and outdoor water use consumption data for each land use subtype comes from the Pacific Institute's Waste Not, Want Not: The Potential for Urban Water Conservation in California 2003 (as cited in CAPCOA 2017). Based on that report, a percentage of total water consumption was dedicated to landscape irrigation, which is used to determine outdoor water use. Wastewater generation was similarly based on a reported percentage of total indoor water use (CAPCOA 2017).

The project would be subject to CalGreen, which requires a 20 percent increase in indoor water use efficiency. Thus, in order to demonstrate compliance with CalGreen, a 20 percent reduction in indoor water use was included in the water consumption calculations for the project.

In addition to water reductions under CalGreen, the GHG emissions from the energy used to transport the water are affected by RPS. As discussed previously, to account for the effects of RPS, the energy-intensity factors included in CalEEMod were adjusted (see Table 4).

5.6 Solid Waste Emissions

The disposal of solid waste produces GHG emissions from anaerobic decomposition in landfills, incineration, and transportation of waste. To calculate the GHG emissions generated by disposing of solid waste for the project, the total volume of solid waste was calculated using waste disposal rates identified by California Department of Resources Recycling and Recovery. The methods for quantifying GHG emissions from solid waste are based on the Intergovernmental Panel on Climate Change method, using the degradable organic content of waste. GHG emissions associated with the project's waste disposal were calculated using these parameters.

These California Department of Resources Recycling and Recovery (CalRecycle) waste generation estimates do not reflect increased waste diversion achieved through compliance with AB 341, Commercial Recycling Requirements. AB 341 mandates that businesses institute certain waste diversion practices. Compliance with AB 341 requirements results in an average solid waste diversion increase of 25 percent.

6.0 GHG Impact Analysis

In accordance with CEQA and City guidance, this analysis evaluates the significance of the project in terms of (1) its contribution of GHGs to cumulative statewide emissions and (2) its consistency with local and state regulations, plans, and policies aimed at reducing GHG emissions.

6.1 Greenhouse Gas Emissions

Based on the methodology summarized in Section 5.0, Calculation Methodology and Assumptions, the primary sources of direct and indirect GHG emissions have been

calculated. Table 5 summarizes the emissions that would result from each project phase. The complete model outputs for the project are included in Attachment 1. The model outputs for the existing land uses are included in Attachment 2.

Table 5
Project Greenhouse Gas Emissions Estimate

Emission Source	2025 Emissions (MT CO_2E)		
	Existing Land Uses	Proposed Project	Net Increase
Mobile	475	17,081	16,607
Energy use	438	4,275	3,837
Area sources	2	2	<1
Water use	132	532	400
Solid waste disposal	49	308	259
Construction[1]	0	36	36
TOTAL[2]	**1,096**	**22,235**	**21,139**

MT CO_2E = metric tons of carbon dioxide equivalent
[1]Construction emissions were amortized over a 30-year period.
[2]Total may vary due to independent rounding.

As shown, the existing land uses would emit 1,096 MT CO_2E in 2025 and the proposed project would result in 22,235 MT CO_2E in 2025 for a net increase of 21,139 MT CO_2E. Emissions are projected to be less than the 90,718 MT CO_2E threshold of significance for GHG emissions. As the project would not exceed the threshold the project's contribution to cumulative GHG emissions would be less than cumulatively considerable, and impacts would be less than significant.

6.2 Applicable Plans, Policies, and Regulations Intended to Reduce Greenhouse Gas Emissions

6.2.1 State Scoping Plan – Regulatory Programs

EO S-3-05 and B-30-15 establish the GHG emission reduction policy of the Executive Branch for the state. AB 32 codified the 2020 goal of EO S-3-05 and launched the Original Scoping Plan (CARB 2008) that outlined the reduction measures needed to reach these goals. SB 32 codified the 2030 goal of B-30-15 and directed CARB to prepare a subsequent update to the Scoping Plan.

Subsequent to the adoption of AB 32 and the development of the Original Scoping Plan, several state agencies, including CARB, CEC, California Public Utilities Commission, CalRecycle, California Department of Transportation (Caltrans), California Department of Forestry and Fire Protection (CAL FIRE), the Department of Water Resources, the Department of Food and Agriculture, and the Department of Goods and Services have developed regulatory and incentive programs to reduce GHG emissions statewide. Policies related to the Department of Food and Agriculture and CAL FIRE are primarily related to the agriculture business and forest and rangeland management. Caltrans measures were

limited to consideration of material selection and operational considerations of the state's transportation system. Therefore, the effects of Department of Food and Agriculture, CAL FIRE, and Caltrans measures and programs are not evaluated further in this analysis.

The project was analyzed to determine if it would conflict with regulations developed to reduce GHG included in the First Update to the Scoping Plan. The results are summarized in Table 6. It should be noted that the measures identified in Table 6 are generally beyond the ability of the project or any future development to affect as many of the measures, such as RPS, are required by the state at the utility provider level or as with vehicle regulations at the manufacturer level. However, all measures included in the First Update to the Scoping Plan and regulated by the agencies listed were included for disclosure, regardless of whether or not the project could reasonably conflict with the regulation.

Table 6
Scoping Plan Regulatory Programs Implemented to Reduce Greenhouse Gas Emissions

State Agency	Regulatory Program	Description	Project Consistency
California Air Resources Board (CARB)	Advanced Clean Cars Program	Sets fleet-average GHG standards for new passenger vehicles, phasing in over 2009-2025. The emission reductions increase to 26 million metric tons (MMT) of carbon dioxide equivalent (CO_2E) annually in 2020 as the GHG standards are fully implemented	As this requirement is applied at the point of sale, this program is not applicable to the project. The project would not conflict with implementation of the program.
CARB	Diesel Anti-Idling	This regulation reduces the amount of diesel fuel used in California, saving 50 million gallons per year. Each gallon saved reduces climate change emissions by 0.01005 metric tons (MT) of CO_2.	Heavy-duty diesel vehicles associated with future manufacturing uses would be required to limit idling to not more than 5 minutes. Diesel anti-idling rules are enforced by CARB and local air districts and are beyond the ability of any development project to conflict with this enforcement. The project would not conflict with implementation of the program.
CARB	Tire Pressure Program	Requires specified automobile servicing businesses to ensure proper tire inflation at the time of service, as well as public education about proper tire inflation.	As this requirement is applied at the point of automotive service, this program is not applicable to the project. The project would not conflict with implementation of the program.
CARB	Goods Movement (Drayage Trucks)	This regulation requires the reduction of GHG, diesel particulate matter (PM), and oxides of nitrogen (NO_X) emissions from drayage trucks operating at, or transporting cargos to or from, California's ports and intermodal rail yards through retrofits, and fleet turnover of pre-1994 trucks.	As this requirement is applied at ports and intermodal rail yards service, this program is not applicable to the project. The project would not conflict with implementation of the program.

Table 6 Scoping Plan Regulatory Programs Implemented to Reduce Greenhouse Gas Emissions			
State Agency	Regulatory Program	Description	Project Consistency
CARB	Ship Electrification	This regulation requires most container, passenger, and refrigerated cargo ships to shut off their auxiliary engines while at dock and receive power from the electrical grid, or reduce their emissions by a similar amount via the implementation of other technologies.	As this requirement is applicable to ships, it is not applicable to the project. The project would not affect port operations and would not conflict with implementation of the program.
CARB	Reduction of Refrigerant Emissions from Non-Professional Services	This regulation requires a self-sealing valve on small cans of refrigerant, and a deposit and recycling program for the cans.	Refrigerant container requirements are enforced by CARB and local air districts and are beyond the ability of any development project to conflict with this enforcement. The project would not conflict with implementation of the program.
CARB	Sulfur hexafluoride (SF_6) Limits in Non-Utility and Non-Semiconductor Applications	This regulation achieves GHG emission reductions from SF_6 use in non-semiconductor and nonutility applications through a phase-out of use over several years.	Phase-out of SF_6 is enforced by CARB and is beyond the ability of any development project to conflict with this enforcement. The project would not conflict with implementation of the program.
CARB	High Global Warming Potential (GWP) GHG Reduction in Semiconductor Operations	This regulation requires semiconductor operations to use process optimization, alternative chemistries, and abatement technologies in combination or separately to reduce GHGs.	Phase-out of high GWP gases in semiconductor operations is enforced by CARB and is beyond the ability of any development project to conflict with this enforcement. The project would not conflict with implementation of the program.
CARB	Global Warming Potential Use in Consumer Products	This regulation sets GWP limits for compounds used in specific consumer products.	Phase-out of high GWP compounds in consumer products is enforced by CARB and is beyond the ability of any development project to conflict with this enforcement. As this requirement is applied at the point of sale, the project would not conflict with implementation of the program.

Table 6 Scoping Plan Regulatory Programs Implemented to Reduce Greenhouse Gas Emissions			
State Agency	Regulatory Program	Description	Project Consistency
CARB	Refrigerant Management Program	This regulation requires facilities with large refrigeration systems with more than 50 pounds of high GWP refrigerant to conduct periodic leak inspections, promptly repair leaks, and keep service records on-site. These facilities are also required to register and submit annual refrigerant usage reports to the ARB. This regulation also affects any person who installs, services, or disposes of any appliance using a high-GWP refrigerant; as well as refrigerant wholesalers, distributors, and reclaimers.	If the future development includes facilities with greater than 50 pounds of high GWP refrigerant, regulations would apply. It is beyond the ability of any development project to conflict CARB's enforcement of this regulation. The project would not conflict with implementation of the program.
CARB	SF_6 Emission Reductions from Gas Insulated Switchgear	This regulation sets an annual emission rate limit for sulfur hexafluoride as a proportion of an entity's capacity of SF_6 in gas-insulated switchgear.	It is beyond the ability of any development project to conflict CARB's enforcement of this regulation. The project would not conflict with implementation of the program.
CARB	Landfill Methane	This regulation requires enhanced control of methane emissions from municipal solid waste landfills and requires owners and operators to install gas collection and control systems at smaller and other uncontrolled landfills.	As this requirement is applied at landfills, this program is not applicable to the project. The project would not conflict with implementation of the program.
CARB	Low Carbon Fuel Standard	This regulation requires fuel providers in California to ensure that the mix of fuel they sell into the California market meets, on average, a declining standard for GHG emissions measured in CO_2 equivalent grams per energy unit of fuel sold.	As this requirement is applied at the point of sale, project would not conflict with implementation of the program.
CARB	Heavy-duty Vehicle Aerodynamic Efficiency	This regulation reduces GHG emissions from long-haul tractors and 53-foot or longer dry-van and refrigerated-van trailers pulled by these tractors, by requiring them to be either U.S. Environmental Protection Agency (U.S. EPA) SmartWay-certified or retrofitted with SmartWay-verified aerodynamic technologies and low rolling resistance tires.	Future development is not an industrial use and is not anticipated to generate heavy truck traffic such as long-haul tractor and trailers. Implementation requirements for aerodynamic are certified by the U.S. EPA and enforced by CARB. It is beyond the ability of any development project to conflict with this enforcement. The project would not conflict with implementation of the program.

Table 6
Scoping Plan Regulatory Programs Implemented to Reduce Greenhouse Gas Emissions

State Agency	Regulatory Program	Description	Project Consistency
CARB	Medium- and Heavy-duty Vehicle Hybridization	This incentive program reduces the GHG emissions of urban, stop-and-go vehicles, such as parcel delivery trucks and vans, utility trucks, garbage trucks, transit buses, and other vocational work trucks, through hybrid and zero-emission technology.	The Medium- and Heavy-duty Vehicle Hybridization Program is a voluntary, incentive-based program. The project would not conflict with implementation of the program.
California Energy Commission (CEC)	Specifications for New Supermarket Refrigeration	The measure sets minimum prescriptive standards for energy efficient refrigeration systems and for design and installation of leak-tight refrigeration systems, which will apply to new supermarket construction and new supermarket refrigeration installation beginning January 1, 2014. The measures have been added to the California Title 24 Building Standards Code, Part 6 (Energy Efficiency), and Part 11 (Green Building Standards Code).	Future development may include uses such as grocery stores. This requirement is enforced through implementation of the Building Code and through building permits. Thus, should future development implemented under the project include a grocery store, it would comply with this requirement. The project would not conflict with implementation of the program.
CEC	Appliance Energy Efficiency Standards	The Appliance Efficiency Regulations increase efficiency of appliances sold to California consumers and businesses. Emission reductions result from energy-efficient appliances consuming less electricity and natural gas, avoiding emissions associated with electricity generation and natural gas combustion.	As this requirement is applied at the point of sale, the project would not conflict with implementation of the program.
CEC	Building Energy Efficiency Standards	The Building Energy Efficiency Standards are designed to increase the efficiency of all newly constructed residential and nonresidential buildings and additions and alterations to existing buildings in California. The strategy is to develop, implement, and enforce standards that require and result in reductions in energy and water use in buildings.	All future development would comply with the version of Title 24 that is in place at the time building permits are obtained. Future development would demonstrate compliance with Title 24 through the building permit process. The project would not conflict with implementation of the program.
CEC	Comprehensive Publicly Owned Utility (POU) Customer Energy Efficiency Programs	The POUs in California offer electricity efficiency programs to their ratepayers.	This program is implemented by POU such as the Imperial Irrigation District. The project would not conflict with implementation of the program.
California Public Utilities Commission (CPUC)	California Solar Initiative	SB1 established a $3 billion rebate program to support the deployment of 3,000 MW of distributed solar generation capacity statewide through 2016. The state has already exceeded the 3,000 MW in January 2016.	The project would not conflict with implementation of the program.

Table 6 Scoping Plan Regulatory Programs Implemented to Reduce Greenhouse Gas Emissions			
State Agency	Regulatory Program	Description	Project Consistency
CPUC	California Solar Initiative–Thermal Program (Solar Water Heating)	The California Solar Initiative (CSI)-Thermal program offers incentives based on the amount of natural gas or electricity displaced by solar water heaters. Incentives are available for residential, multi-family, and commercial applications.	CSI Thermal incentives would be available to future development implemented under the project. The project would not conflict with implementation of the program.
CPUC	Investor-Owned Utilities Energy Efficiency Programs	The program was developed for energy efficiency to reach residential (single family, and multi-family), commercial, industrial, and agricultural customers of investor-owned distribution utilities.	This program is implemented by IOU. The project site is not in the service territory of an IOU. The project would not conflict with implementation of the program.
CPUC	Renewables Portfolio Standard	The RPS program requires each retail seller to increase its total procurement of eligible renewable energy resources so that 33 percent of retail sales are served by eligible renewable energy resources no later than December 31, 2020. Recently the RPS was amended by SB 350, which requires each retail seller to increase its total procurement of eligible renewable energy resources so that 50 percent of retail sales are served by eligible renewable energy resources no later than December 31, 2030.	As this requirement is applied at IOU and POU generation facilities, this program is not applicable to the project. The project would benefit from the continued implementation of RPS, as discussed in Sections 2.2.6 and 5.0. The project would not conflict with implementation of the program.
California Department of Water Resources	End Use Water Conservation & Efficiency	Mandates a 20 percent reduction in statewide per capita urban water use by the year 2020. The Integrated Regional Water Management grant program includes a climate change standard which requires the consideration of water-related GHG emissions in regional water planning. In addition, Urban Water Management Plan guidelines recommend the inclusion of a climate change element that addresses water-related energy demand.	Future development implemented under the project would be required to meet CALGreen standards, which require a 20 percent increase in indoor water use efficiency. The project would not conflict with implementation of the program.

Table 6
Scoping Plan Regulatory Programs Implemented to Reduce Greenhouse Gas Emissions

State Agency	Regulatory Program	Description	Project Consistency
California Department of Resources Recycling and Recovery (CalRecycle)	Statewide Recycling	CalRecycle provides assistance to local jurisdictions, businesses and the public with their recycling efforts. In 2013, a per-resident disposal rate of 4.3 pounds/resident/day was calculated using SB 1016's measurement system; the per-resident "diversion rate equivalent" was 65 percent.1 The Budget Act of 2014 authorized CalRecycle to issue grants that result in reduced greenhouse gas emissions. CalRecycle awarded $5 million for three fiber, plastic and glass recycling projects that increases the amount of material being landfilled, reduces greenhouse gases and focuses on infrastructure development.	This program is implemented by CalRecycle and local jurisdictions. The project would comply with all municipal requirements for the provision of designated waste and recycling areas. The project would not conflict with implementation of the program.

SOURCE: CARB 2014b.

As discussed in Table 6, the project would not conflict with state regulatory programs intended to reduce GHG emissions; therefore it would not conflict with the most applicable plan, i.e., the First Update to the Scoping Plan, nor the achievement of state emission reduction targets codified in AB 32, SB 32, or stated in EO S-3-05 and B-30-15.

6.2.2 Southern California Association of Governments Sustainable Communities Strategy

As discussed in Section 3.2.3, SCAG completed and adopted its 2016 RTP/SCS. CARB's targets for the SCAG region call for an 8 percent reduction in GHG emissions per capita from automobiles and light-duty trucks compared to 2005 levels by 2020, and a 19 percent reduction by 2035.

As discussed in the Air Quality Analysis prepared for the project (RECON 2019), future development of the project site would be conditioned to include several features that would reduce single-passenger vehicle ridership and encourage other modes of transit. These required measures include preparation of a TDM plan, provision of shower and locker facilities, bicycle and motorcycle parking, extension of sidewalks, construction of a transit stop, and improvements to on-site circulation elements. Through incorporation of these features the future development of the project site would support achievement of the goals of the 2016 RTP/SCS. Therefore, the project would not conflict with the 2016 RTP/SCS. Impacts would be less than significant.

7.0 Conclusions

As summarized in Table 5, the existing land uses would emit 1,096 MT CO_2E in 2025 and the proposed project would result in 22,235 MT CO_2E in 2025 for a net increase of 21,139 MT CO_2E. Emissions associated with each project phase would be less than the 90,718 MT CO_2E threshold of significance for GHG emissions. Therefore, the project's contribution of GHG emissions to cumulative emissions would be less than cumulatively considerable. Additionally, the project would not conflict with implementation of an applicable State plan, policy, or regulation. Future development of the project site would be conditioned to include several transportation-related features that would support achievement of the regional goals outlined by the 2016 RTP/SCS. Impacts would be less than significant.

8.0 References Cited

California Air Pollution Control Officers Association (CAPCOA)

2017 California Emissions Estimator model (CalEEMod). User's Guide Version 2016.3.2 September.

California Air Resources Board (CARB)

2007 California Greenhouse Gas Inventory – Summary by Economic Sector. Last updated November, 19 2007. Accessed April, 2014.

2008 Climate Change Scoping Plan: A Framework for Change. http://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. December.

2011 In-Use Off-Road Equipment (Construction, Industrial, Ground Support, and Oil Drilling) 2011 Inventory Model.

2014a 2014 EMission FACtors (EMFAC) model, version 1.07, update March 15, 2015.

2014b First Update to the Climate Change Scoping Plan. Building on the Framework Pursuant to AB 32 – The California Global Warming Solutions Act of 2006. May 2014.

2017 The 2017 Climate Change Scoping Plan Update, The Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target. October 27, 2017.

2018 Greenhouse Gas Inventory Data—2000 to 2016 (last updated June 22). http://www.arb.ca.gov/cc/inventory/data/data.htm.

Council on Environmental Quality (CEQ)
2012 Federal Greenhouse Gas Accounting and Reporting Guidance, June 4. Accessed June 24, 2016. https://www.whitehouse.gov/sites/default/files/microsites/ceq/ghg_guidance_document_0.pdf.

El Centro, City of
2004 City of El Centro General Plan. February.

Intergovernmental Panel on Climate Change (IPCC)
2014 Fifth Assessment Report (AR5), Climate Change 2014: Synthesis Report.

Linscott, Law & Greenspan, Engineers (LLG)
2019 Transportation Impact Analysis, South Dogwood General Plan Amendment. LLG Ref. 3-19-3147. November 6.

RECON Environmental, Inc. (RECON)
2019 Air Quality Analysis for the South Dogwood Annexation Project, Imperial County, California. November 14.

Senate Energy, Utilities and Communications Committee
2012 Senate Bill 971 Renewable Energy Resources. April 24, 2012 Hearing Analysis Document. Accessed at http://leginfo.legislature.ca.gov/faces/billAnalysisClient.xhtml?bill_id=201120120SB971#.

South Coast Air Quality Management District (South Coast AQMD)
2009 Greenhouse Gas CEQA Significance Threshold Stakeholder Working Group 14. November 19, 2009.

U.S. Environmental Protection Agency (U.S. EPA)
2010 Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2008. U.S. Greenhouse Gas Inventory Program, Office of Atmospheric Programs. 430-R-10-006. April 15.

2013 Energy Star. http://www.energystar.gov Accessed July 2, 2013.

2014 U.S. EPA State and Local Climate and Energy Program. Accessed January 23, 2014. http://www.epa.gov/statelocalclimate/index.html.

ATTACHMENTS

ATTACHMENT 1

CalEEMod Output– Project Emissions

9489 South Dogwood Annexation - 2025

Imperial County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	191.00	Dwelling Unit	11.92	191,000.00	617
Regional Shopping Center	694.30	1000sqft	53.13	694,303.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2025
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	922.18	**CH4 Intensity (lb/MWhr)**	0.021	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

9489 South Dogwood Annexation - 2025 - Imperial County APCD Air District, Annual

Project Characteristics - Energy intensity factors reduced to reflect RPS 2020 33% mandate
(922.18, 0.021, 0.004)

Land Use - 191 dwelling units/11.92 acres
694,303 sf retail/53.13 acres
65.05 net acres

Construction Phase - Architectural coatings simultaneous with half of building construction

On-road Fugitive Dust - 100% of the roads in the vicinity of the project are paved

Demolition -

Vehicle Trips - Multi-Family - 1,039 ADT (5.44 per unit)
Commercial/Retail - 22,453 ADT (32.34 per ksf)

Road Dust - 100% of roads in vicinity of project are paved

Woodstoves - No woodstoves or fireplaces

Energy Use -

Water And Wastewater - CalGreen requires 20% decrease in indoor water use that is not included in model (9,955,535.11 gallons, 41,142,841.34 gallons)

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	555.00
tblFireplaces	FireplaceDayYear	4.30	0.00
tblFireplaces	FireplaceHourDay	2.79	0.00
tblFireplaces	FireplaceWoodMass	2,080.00	0.00
tblFireplaces	NumberGas	105.05	0.00
tblFireplaces	NumberNoFireplace	0.00	191.00
tblLandUse	LandUseSquareFeet	694,300.00	694,303.00
tblLandUse	LotAcreage	5.03	11.92

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tblLandUse	LotAcreage	15.94	53.13
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.021
tblProjectCharacteristics	CO2IntensityFactor	1270.9	922.18
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadPercentPave	50	100
tblVehicleTrips	ST_TR	6.39	5.44
tblVehicleTrips	ST_TR	49.97	32.34
tblVehicleTrips	SU_TR	5.86	5.44
tblVehicleTrips	SU_TR	25.24	32.34

tblVehicleTrips	WD_TR	6.65	5.44
tblVehicleTrips	WD_TR	42.70	32.34
tblWater	IndoorWaterUseRate	12,444,418.89	9,955,535.11
tblWater	IndoorWaterUseRate	51,428,551.67	41,142,841.34

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					
2021	0.5206	5.1950	3.6584	7.6000e-003	0.9677	0.2253	1.1929	0.4255	0.2081	0.6336	0.0000	674.6384	674.6384	0.1718	0.0000	678.9332
2022	0.5216	3.9099	4.2169	0.0113	0.4012	0.1107	0.5119	0.1098	0.1042	0.2139	0.0000	1,025.8851	1,025.8851	0.1133	0.0000	1,028.7166
2023	0.5438	3.2973	4.0226	0.0111	0.4024	0.0943	0.4967	0.1101	0.0888	0.1988	0.0000	1,009.0435	1,009.0435	0.1048	0.0000	1,011.6629
2024	3.3614	3.3602	4.4386	0.0119	0.4563	0.0917	0.5480	0.1244	0.0867	0.2111	0.0000	1,078.6767	1,078.6767	0.1085	0.0000	1,081.3884
2025	3.3169	3.1818	4.2923	0.0117	0.4546	0.0789	0.5335	0.1239	0.0746	0.1985	0.0000	1,062.6192	1,062.6192	0.1064	0.0000	1,065.2793
2026	0.3655	0.6380	0.9803	2.0300e-003	0.0484	0.0236	0.0720	0.0132	0.0219	0.0351	0.0000	181.9758	181.9758	0.0349	0.0000	182.8491
Maximum	**3.3614**	**5.1950**	**4.4386**	**0.0119**	**0.9677**	**0.2253**	**1.1929**	**0.4255**	**0.2081**	**0.6336**	**0.0000**	**1,078.6767**	**1,078.6767**	**0.1718**	**0.0000**	**1,081.3884**

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					
2021	0.5206	5.1949	3.6584	7.6000e-003	0.4251	0.2253	0.6503	0.1789	0.2081	0.3871	0.0000	674.6377	674.6377	0.1718	0.0000	678.9326
2022	0.5216	3.9099	4.2169	0.0113	0.4012	0.1107	0.5119	0.1098	0.1042	0.2139	0.0000	1,025.8847	1,025.8847	0.1133	0.0000	1,028.7162
2023	0.5438	3.2973	4.0226	0.0111	0.4024	0.0943	0.4967	0.1101	0.0888	0.1988	0.0000	1,009.0431	1,009.0431	0.1048	0.0000	1,011.6625
2024	3.3614	3.3602	4.4386	0.0119	0.4563	0.0917	0.5480	0.1244	0.0867	0.2111	0.0000	1,078.6763	1,078.6763	0.1085	0.0000	1,081.3880
2025	3.3169	3.1818	4.2923	0.0117	0.4546	0.0789	0.5335	0.1239	0.0746	0.1985	0.0000	1,062.6188	1,062.6188	0.1064	0.0000	1,065.2789
2026	0.3655	0.6380	0.9803	2.0300e-003	0.0484	0.0236	0.0720	0.0132	0.0219	0.0351	0.0000	181.9757	181.9757	0.0349	0.0000	182.8490
Maximum	**3.3614**	**5.1949**	**4.4386**	**0.0119**	**0.4563**	**0.2253**	**0.6503**	**0.1789**	**0.2081**	**0.3871**	**0.0000**	**1,078.6763**	**1,078.6763**	**0.1718**	**0.0000**	**1,081.3880**

	ROG	NOx	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**	**19.87**	**0.00**	**16.17**	**27.19**	**0.00**	**16.53**	**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	**1-1-2021**	**3-31-2021**	1.1633	1.1633
2	**4-1-2021**	**6-30-2021**	1.4846	1.4846
3	**7-1-2021**	**9-30-2021**	1.6691	1.6691
4	**10-1-2021**	**12-31-2021**	1.3906	1.3906
5	**1-1-2022**	**3-31-2022**	1.0908	1.0908

6	**4-1-2022**	**6-30-2022**	1.1101	1.1101
7	**7-1-2022**	**9-30-2022**	1.1223	1.1223
8	**10-1-2022**	**12-31-2022**	1.1150	1.1150
9	**1-1-2023**	**3-31-2023**	0.9281	0.9281
10	**4-1-2023**	**6-30-2023**	0.9491	0.9491
11	**7-1-2023**	**9-30-2023**	0.9596	0.9596
12	**10-1-2023**	**12-31-2023**	1.0337	1.0337
13	**1-1-2024**	**3-31-2024**	1.6634	1.6634
14	**4-1-2024**	**6-30-2024**	1.6756	1.6756
15	**7-1-2024**	**9-30-2024**	1.6940	1.6940
16	**10-1-2024**	**12-31-2024**	1.6817	1.6817
17	**1-1-2025**	**3-31-2025**	1.5965	1.5965
18	**4-1-2025**	**6-30-2025**	1.6262	1.6262
19	**7-1-2025**	**9-30-2025**	1.6441	1.6441
20	**10-1-2025**	**12-31-2025**	1.6320	1.6320
21	**1-1-2026**	**3-31-2026**	0.8199	0.8199
22	**4-1-2026**	**6-30-2026**	0.1750	0.1750
		Highest	1.6940	1.6940

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	4.1029	0.0164	1.4232	8.0000e-005		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003	0.0000	2.3290	2.3290	2.2500e-003	0.0000	2.3853
Energy	0.0236	0.2058	0.1189	1.2800e-003		0.0163	0.0163		0.0163	0.0163	0.0000	4,266.0121	4,266.0121	0.0963	0.0218	4,274.9059
Mobile	8.8100	61.4362	80.4868	0.2348	12.7040	0.1056	12.8096	3.4080	0.0987	3.5067	0.0000	21,836.3054	21,836.3054	1.6595	0.0000	21,877.7938
Waste						0.0000	0.0000		0.0000	0.0000	165.8172	0.0000	165.8172	9.7995	0.0000	410.8052
Water						0.0000	0.0000		0.0000	0.0000	16.2112	461.2566	477.4677	1.6756	0.0413	531.6685
Total	**12.9365**	**61.6583**	**82.0289**	**0.2361**	**12.7040**	**0.1298**	**12.8337**	**3.4080**	**0.1229**	**3.5309**	**182.0284**	**26,565.9032**	**26,747.9316**	**13.2332**	**0.0631**	**27,097.5587**

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	4.1029	0.0164	1.4232	8.0000e-005		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003	0.0000	2.3290	2.3290	2.2500e-003	0.0000	2.3853
Energy	0.0236	0.2058	0.1189	1.2800e-003		0.0163	0.0163		0.0163	0.0163	0.0000	4,266.0121	4,266.0121	0.0963	0.0218	4,274.9059
Mobile	8.1687	57.7864	64.5579	0.1829	8.3000	0.0779	8.3778	2.2266	0.0727	2.2993	0.0000	17,044.7297	17,044.7297	1.4688	0.0000	17,081.4500
Waste						0.0000	0.0000		0.0000	0.0000	124.3629	0.0000	124.3629	7.3496	0.0000	308.1039
Water						0.0000	0.0000		0.0000	0.0000	16.2112	461.2566	477.4677	1.6756	0.0413	531.6685
Total	**12.2952**	**58.0085**	**66.1000**	**0.1842**	**8.3000**	**0.1020**	**8.4020**	**2.2266**	**0.0969**	**2.3234**	**140.5741**	**21,774.3274**	**21,914.9015**	**10.5926**	**0.0631**	**22,198.5136**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.96**	**5.92**	**19.42**	**21.98**	**34.67**	**21.39**	**34.53**	**34.67**	**21.15**	**34.20**	**22.77**	**18.04**	**18.07**	**19.95**	**0.00**	**18.08**

3.0 Construction Detail

Construction Phase

9489 South Dogwood Annexation - 2025 - Imperial County APCD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	4/8/2021	5	70	
2	Site Preparation	Site Preparation	4/9/2021	6/3/2021	5	40	
3	Grading	Grading	6/4/2021	11/4/2021	5	110	
4	Building Construction	Building Construction	11/5/2021	2/5/2026	5	1110	
5	Architectural Coating	Architectural Coating	12/22/2023	2/5/2026	5	555	
6	Paving	Paving	2/6/2026	5/21/2026	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 386,775; Residential Outdoor: 128,925; Non-Residential Indoor: 1,041,455; Non-Residential Outdoor: 347,152; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

9489 South Dogwood Annexation - 2025 - Imperial County APCD Air District, Annual

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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

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	455.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	360.00	134.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	72.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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					
Fugitive Dust					0.0511	0.0000	0.0511	7.7400e-003	0.0000	7.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1108	1.1004	0.7548	1.3600e-003		0.0543	0.0543		0.0504	0.0504	0.0000	119.0028	119.0028	0.0335	0.0000	119.8401
Total	**0.1108**	**1.1004**	**0.7548**	**1.3600e-003**	**0.0511**	**0.0543**	**0.1054**	**7.7400e-003**	**0.0504**	**0.0582**	**0.0000**	**119.0028**	**119.0028**	**0.0335**	**0.0000**	**119.8401**

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	1.1600e-003	0.0498	6.9800e-003	1.7000e-004	3.9600e-003	1.5000e-004	4.1100e-003	1.0900e-003	1.4000e-004	1.2300e-003	0.0000	16.5355	16.5355	6.6000e-004	0.0000	16.5520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8400e-003	2.1300e-003	0.0199	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.3565	2.3565	1.8000e-004	0.0000	2.3611
Total	**4.0000e-003**	**0.0519**	**0.0269**	**2.0000e-004**	**6.8600e-003**	**1.7000e-004**	**7.0300e-003**	**1.8600e-003**	**1.6000e-004**	**2.0200e-003**	**0.0000**	**18.8920**	**18.8920**	**8.4000e-004**	**0.0000**	**18.9131**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0199	0.0000	0.0199	3.0200e-003	0.0000	3.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1108	1.1004	0.7548	1.3600e-003		0.0543	0.0543		0.0504	0.0504	0.0000	119.0026	119.0026	0.0335	0.0000	119.8400
Total	**0.1108**	**1.1004**	**0.7548**	**1.3600e-003**	**0.0199**	**0.0543**	**0.0742**	**3.0200e-003**	**0.0504**	**0.0535**	**0.0000**	**119.0026**	**119.0026**	**0.0335**	**0.0000**	**119.8400**

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	1.1600e-003	0.0498	6.9800e-003	1.7000e-004	3.9600e-003	1.5000e-004	4.1100e-003	1.0900e-003	1.4000e-004	1.2300e-003	0.0000	16.5355	16.5355	6.6000e-004	0.0000	16.5520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8400e-003	2.1300e-003	0.0199	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.3565	2.3565	1.8000e-004	0.0000	2.3611
Total	**4.0000e-003**	**0.0519**	**0.0269**	**2.0000e-004**	**6.8600e-003**	**1.7000e-004**	**7.0300e-003**	**1.8600e-003**	**1.6000e-004**	**2.0200e-003**	**0.0000**	**18.8920**	**18.8920**	**8.4000e-004**	**0.0000**	**18.9131**

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					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0778	0.8099	0.4231	7.6000e-004		0.0409	0.0409		0.0376	0.0376	0.0000	66.8714	66.8714	0.0216	0.0000	67.4121
Total	**0.0778**	**0.8099**	**0.4231**	**7.6000e-004**	**0.3613**	**0.0409**	**0.4022**	**0.1986**	**0.0376**	**0.2362**	**0.0000**	**66.8714**	**66.8714**	**0.0216**	**0.0000**	**67.4121**

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	1.9500e-003	1.4600e-003	0.0137	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6159	1.6159	1.3000e-004	0.0000	1.6190
Total	**1.9500e-003**	**1.4600e-003**	**0.0137**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6159**	**1.6159**	**1.3000e-004**	**0.0000**	**1.6190**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1409	0.0000	0.1409	0.0775	0.0000	0.0775	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0778	0.8099	0.4231	7.6000e-004		0.0409	0.0409		0.0376	0.0376	0.0000	66.8714	66.8714	0.0216	0.0000	67.4120
Total	**0.0778**	**0.8099**	**0.4231**	**7.6000e-004**	**0.1409**	**0.0409**	**0.1818**	**0.0775**	**0.0376**	**0.1151**	**0.0000**	**66.8714**	**66.8714**	**0.0216**	**0.0000**	**67.4120**

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	1.9500e-003	1.4600e-003	0.0137	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6159	1.6159	1.3000e-004	0.0000	1.6190
Total	**1.9500e-003**	**1.4600e-003**	**0.0137**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6159**	**1.6159**	**1.3000e-004**	**0.0000**	**1.6190**

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					0.4770	0.0000	0.4770	0.1978	0.0000	0.1978	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2305	2.5520	1.6983	3.4100e-003		0.1092	0.1092		0.1005	0.1005	0.0000	299.7224	299.7224	0.0969	0.0000	302.1458
Total	**0.2305**	**2.5520**	**1.6983**	**3.4100e-003**	**0.4770**	**0.1092**	**0.5862**	**0.1978**	**0.1005**	**0.2983**	**0.0000**	**299.7224**	**299.7224**	**0.0969**	**0.0000**	**302.1458**

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	5.9500e-003	4.4700e-003	0.0418	6.0000e-005	6.0700e-003	4.0000e-005	6.1100e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	4.9374	4.9374	3.8000e-004	0.0000	4.9470
Total	**5.9500e-003**	**4.4700e-003**	**0.0418**	**6.0000e-005**	**6.0700e-003**	**4.0000e-005**	**6.1100e-003**	**1.6100e-003**	**4.0000e-005**	**1.6500e-003**	**0.0000**	**4.9374**	**4.9374**	**3.8000e-004**	**0.0000**	**4.9470**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1860	0.0000	0.1860	0.0771	0.0000	0.0771	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2305	2.5520	1.6983	3.4100e-003		0.1092	0.1092		0.1005	0.1005	0.0000	299.7220	299.7220	0.0969	0.0000	302.1455
Total	**0.2305**	**2.5520**	**1.6983**	**3.4100e-003**	**0.1860**	**0.1092**	**0.2952**	**0.0771**	**0.1005**	**0.1776**	**0.0000**	**299.7220**	**299.7220**	**0.0969**	**0.0000**	**302.1455**

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	5.9500e-003	4.4700e-003	0.0418	6.0000e-005	6.0700e-003	4.0000e-005	6.1100e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	4.9374	4.9374	3.8000e-004	0.0000	4.9470
Total	**5.9500e-003**	**4.4700e-003**	**0.0418**	**6.0000e-005**	**6.0700e-003**	**4.0000e-005**	**6.1100e-003**	**1.6100e-003**	**4.0000e-005**	**1.6500e-003**	**0.0000**	**4.9374**	**4.9374**	**3.8000e-004**	**0.0000**	**4.9470**

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	0.0390	0.3574	0.3398	5.5000e-004		0.0197	0.0197		0.0185	0.0185	0.0000	47.4856	47.4856	0.0115	0.0000	47.7721
Total	**0.0390**	**0.3574**	**0.3398**	**5.5000e-004**		**0.0197**	**0.0197**		**0.0185**	**0.0185**	**0.0000**	**47.4856**	**47.4856**	**0.0115**	**0.0000**	**47.7721**

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	0.0107	0.2874	0.0798	8.8000e-004	0.0226	7.3000e-004	0.0233	6.5000e-003	6.9000e-004	7.1900e-003	0.0000	82.9853	82.9853	4.3700e-003	0.0000	83.0944
Worker	0.0399	0.0300	0.2803	3.7000e-004	0.0407	2.7000e-004	0.0410	0.0108	2.5000e-004	0.0111	0.0000	33.1256	33.1256	2.5600e-003	0.0000	33.1897
Total	**0.0507**	**0.3174**	**0.3601**	**1.2500e-003**	**0.0633**	**1.0000e-003**	**0.0643**	**0.0173**	**9.4000e-004**	**0.0182**	**0.0000**	**116.1108**	**116.1108**	**6.9300e-003**	**0.0000**	**116.2841**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0390	0.3574	0.3398	5.5000e-004		0.0197	0.0197		0.0185	0.0185	0.0000	47.4856	47.4856	0.0115	0.0000	47.7720
Total	**0.0390**	**0.3574**	**0.3398**	**5.5000e-004**		**0.0197**	**0.0197**		**0.0185**	**0.0185**	**0.0000**	**47.4856**	**47.4856**	**0.0115**	**0.0000**	**47.7720**

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	0.0107	0.2874	0.0798	8.8000e-004	0.0226	7.3000e-004	0.0233	6.5000e-003	6.9000e-004	7.1900e-003	0.0000	82.9853	82.9853	4.3700e-003	0.0000	83.0944
Worker	0.0399	0.0300	0.2803	3.7000e-004	0.0407	2.7000e-004	0.0410	0.0108	2.5000e-004	0.0111	0.0000	33.1256	33.1256	2.5600e-003	0.0000	33.1897
Total	**0.0507**	**0.3174**	**0.3601**	**1.2500e-003**	**0.0633**	**1.0000e-003**	**0.0643**	**0.0173**	**9.4000e-004**	**0.0182**	**0.0000**	**116.1108**	**116.1108**	**6.9300e-003**	**0.0000**	**116.2841**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2428**	**301.2428**	**0.0722**	**0.0000**	**303.0471**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0632	1.7057	0.4615	5.5100e-003	0.1431	3.9000e-003	0.1470	0.0412	3.7300e-003	0.0450	0.0000	522.2388	522.2388	0.0262	0.0000	522.8936
Worker	0.2366	0.1742	1.6282	2.2500e-003	0.2582	1.6300e-003	0.2598	0.0685	1.5000e-003	0.0700	0.0000	202.4034	202.4034	0.0149	0.0000	202.7760
Total	**0.2998**	**1.8798**	**2.0897**	**7.7600e-003**	**0.4012**	**5.5300e-003**	**0.4067**	**0.1098**	**5.2300e-003**	**0.1150**	**0.0000**	**724.6423**	**724.6423**	**0.0411**	**0.0000**	**725.6695**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2425**	**301.2425**	**0.0722**	**0.0000**	**303.0467**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0632	1.7057	0.4615	5.5100e-003	0.1431	3.9000e-003	0.1470	0.0412	3.7300e-003	0.0450	0.0000	522.2388	522.2388	0.0262	0.0000	522.8936
Worker	0.2366	0.1742	1.6282	2.2500e-003	0.2582	1.6300e-003	0.2598	0.0685	1.5000e-003	0.0700	0.0000	202.4034	202.4034	0.0149	0.0000	202.7760
Total	**0.2998**	**1.8798**	**2.0897**	**7.7600e-003**	**0.4012**	**5.5300e-003**	**0.4067**	**0.1098**	**5.2300e-003**	**0.1150**	**0.0000**	**724.6423**	**724.6423**	**0.0411**	**0.0000**	**725.6695**

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3462**	**301.3462**	**0.0717**	**0.0000**	**303.1383**

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	0.0510	1.2622	0.4010	5.3900e-003	0.1431	1.5600e-003	0.1446	0.0412	1.4900e-003	0.0427	0.0000	511.3006	511.3006	0.0193	0.0000	511.7824
Worker	0.2217	0.1604	1.4975	2.1700e-003	0.2582	1.5700e-003	0.2597	0.0685	1.4400e-003	0.0700	0.0000	194.7320	194.7320	0.0137	0.0000	195.0747
Total	**0.2727**	**1.4226**	**1.8985**	**7.5600e-003**	**0.4012**	**3.1300e-003**	**0.4043**	**0.1098**	**2.9300e-003**	**0.1127**	**0.0000**	**706.0326**	**706.0326**	**0.0330**	**0.0000**	**706.8571**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3458**	**301.3458**	**0.0717**	**0.0000**	**303.1380**

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	0.0510	1.2622	0.4010	5.3900e-003	0.1431	1.5600e-003	0.1446	0.0412	1.4900e-003	0.0427	0.0000	511.3006	511.3006	0.0193	0.0000	511.7824
Worker	0.2217	0.1604	1.4975	2.1700e-003	0.2582	1.5700e-003	0.2597	0.0685	1.4400e-003	0.0700	0.0000	194.7320	194.7320	0.0137	0.0000	195.0747
Total	**0.2727**	**1.4226**	**1.8985**	**7.5600e-003**	**0.4012**	**3.1300e-003**	**0.4043**	**0.1098**	**2.9300e-003**	**0.1127**	**0.0000**	**706.0326**	**706.0326**	**0.0330**	**0.0000**	**706.8571**

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	0.0495	1.2583	0.3788	5.4100e-003	0.1442	1.5400e-003	0.1457	0.0415	1.4800e-003	0.0430	0.0000	513.3613	513.3613	0.0191	0.0000	513.8394
Worker	0.2104	0.1509	1.4207	2.1200e-003	0.2601	1.5500e-003	0.2617	0.0691	1.4200e-003	0.0705	0.0000	190.1213	190.1213	0.0130	0.0000	190.4470
Total	**0.2599**	**1.4092**	**1.7995**	**7.5300e-003**	**0.4043**	**3.0900e-003**	**0.4074**	**0.1106**	**2.9000e-003**	**0.1135**	**0.0000**	**703.4825**	**703.4825**	**0.0322**	**0.0000**	**704.2864**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0495	1.2583	0.3788	5.4100e-003	0.1442	1.5400e-003	0.1457	0.0415	1.4800e-003	0.0430	0.0000	513.3613	513.3613	0.0191	0.0000	513.8394
Worker	0.2104	0.1509	1.4207	2.1200e-003	0.2601	1.5500e-003	0.2617	0.0691	1.4200e-003	0.0705	0.0000	190.1213	190.1213	0.0130	0.0000	190.4470
Total	**0.2599**	**1.4092**	**1.7995**	**7.5300e-003**	**0.4043**	**3.0900e-003**	**0.4074**	**0.1106**	**2.9000e-003**	**0.1135**	**0.0000**	**703.4825**	**703.4825**	**0.0322**	**0.0000**	**704.2864**

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	0.0474	1.2352	0.3541	5.3600e-003	0.1436	1.5100e-003	0.1451	0.0414	1.4400e-003	0.0428	0.0000	508.4624	508.4624	0.0188	0.0000	508.9312
Worker	0.1972	0.1415	1.3359	2.0200e-003	0.2592	1.5000e-003	0.2607	0.0688	1.3800e-003	0.0702	0.0000	181.8183	181.8183	0.0122	0.0000	182.1243
Total	**0.2446**	**1.3767**	**1.6900**	**7.3800e-003**	**0.4028**	**3.0100e-003**	**0.4058**	**0.1102**	**2.8200e-003**	**0.1130**	**0.0000**	**690.2807**	**690.2807**	**0.0310**	**0.0000**	**691.0555**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0474	1.2352	0.3541	5.3600e-003	0.1436	1.5100e-003	0.1451	0.0414	1.4400e-003	0.0428	0.0000	508.4624	508.4624	0.0188	0.0000	508.9312
Worker	0.1972	0.1415	1.3359	2.0200e-003	0.2592	1.5000e-003	0.2607	0.0688	1.3800e-003	0.0702	0.0000	181.8183	181.8183	0.0122	0.0000	182.1243
Total	**0.2446**	**1.3767**	**1.6900**	**7.3800e-003**	**0.4028**	**3.0100e-003**	**0.4058**	**0.1102**	**2.8200e-003**	**0.1130**	**0.0000**	**690.2807**	**690.2807**	**0.0310**	**0.0000**	**691.0555**

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	0.0178	0.1621	0.2091	3.5000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	30.1495	30.1495	7.0900e-003	0.0000	30.3267
Total	**0.0178**	**0.1621**	**0.2091**	**3.5000e-004**		**6.8600e-003**	**6.8600e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**30.1495**	**30.1495**	**7.0900e-003**	**0.0000**	**30.3267**

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	4.5600e-003	0.1214	0.0333	5.3000e-004	0.0143	1.5000e-004	0.0145	4.1200e-003	1.4000e-004	4.2600e-003	0.0000	50.3932	50.3932	1.8400e-003	0.0000	50.4392
Worker	0.0186	0.0134	0.1271	1.9000e-004	0.0258	1.4000e-004	0.0260	6.8500e-003	1.3000e-004	6.9900e-003	0.0000	17.4533	17.4533	1.1700e-003	0.0000	17.4825
Total	**0.0231**	**0.1349**	**0.1603**	**7.2000e-004**	**0.0401**	**2.9000e-004**	**0.0404**	**0.0110**	**2.7000e-004**	**0.0113**	**0.0000**	**67.8464**	**67.8464**	**3.0100e-003**	**0.0000**	**67.9217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0178	0.1621	0.2091	3.5000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	30.1495	30.1495	7.0900e-003	0.0000	30.3267
Total	**0.0178**	**0.1621**	**0.2091**	**3.5000e-004**		**6.8600e-003**	**6.8600e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**30.1495**	**30.1495**	**7.0900e-003**	**0.0000**	**30.3267**

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	4.5600e-003	0.1214	0.0333	5.3000e-004	0.0143	1.5000e-004	0.0145	4.1200e-003	1.4000e-004	4.2600e-003	0.0000	50.3932	50.3932	1.8400e-003	0.0000	50.4392
Worker	0.0186	0.0134	0.1271	1.9000e-004	0.0258	1.4000e-004	0.0260	6.8500e-003	1.3000e-004	6.9900e-003	0.0000	17.4533	17.4533	1.1700e-003	0.0000	17.4825
Total	**0.0231**	**0.1349**	**0.1603**	**7.2000e-004**	**0.0401**	**2.9000e-004**	**0.0404**	**0.0110**	**2.7000e-004**	**0.0113**	**0.0000**	**67.8464**	**67.8464**	**3.0100e-003**	**0.0000**	**67.9217**

3.6 Architectural Coating - 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					
Archit. Coating	0.0651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	3.9100e-003	5.4300e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7660	0.7660	5.0000e-005	0.0000	0.7671
Total	**0.0657**	**3.9100e-003**	**5.4300e-003**	**1.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**0.7660**	**0.7660**	**5.0000e-005**	**0.0000**	**0.7671**

3.6 Architectural Coating - 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	1.0200e-003	7.4000e-004	6.9100e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.8988	0.8988	6.0000e-005	0.0000	0.9003
Total	**1.0200e-003**	**7.4000e-004**	**6.9100e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.8988**	**0.8988**	**6.0000e-005**	**0.0000**	**0.9003**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	3.9100e-003	5.4300e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7660	0.7660	5.0000e-005	0.0000	0.7671
Total	**0.0657**	**3.9100e-003**	**5.4300e-003**	**1.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**0.7660**	**0.7660**	**5.0000e-005**	**0.0000**	**0.7671**

3.6 Architectural Coating - 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	1.0200e-003	7.4000e-004	6.9100e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.8988	0.8988	6.0000e-005	0.0000	0.9003
Total	**1.0200e-003**	**7.4000e-004**	**6.9100e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.8988**	**0.8988**	**6.0000e-005**	**0.0000**	**0.9003**

3.6 Architectural Coating - 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					
Archit. Coating	2.8430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	**2.8666**	**0.1597**	**0.2371**	**3.9000e-004**		**7.9800e-003**	**7.9800e-003**		**7.9800e-003**	**7.9800e-003**	**0.0000**	**33.4476**	**33.4476**	**1.8800e-003**	**0.0000**	**33.4947**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0421	0.0302	0.2841	4.2000e-004	0.0520	3.1000e-004	0.0523	0.0138	2.8000e-004	0.0141	0.0000	38.0243	38.0243	2.6100e-003	0.0000	38.0894
Total	**0.0421**	**0.0302**	**0.2841**	**4.2000e-004**	**0.0520**	**3.1000e-004**	**0.0523**	**0.0138**	**2.8000e-004**	**0.0141**	**0.0000**	**38.0243**	**38.0243**	**2.6100e-003**	**0.0000**	**38.0894**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.8430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	**2.8666**	**0.1597**	**0.2371**	**3.9000e-004**		**7.9800e-003**	**7.9800e-003**		**7.9800e-003**	**7.9800e-003**	**0.0000**	**33.4476**	**33.4476**	**1.8800e-003**	**0.0000**	**33.4947**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0421	0.0302	0.2841	4.2000e-004	0.0520	3.1000e-004	0.0523	0.0138	2.8000e-004	0.0141	0.0000	38.0243	38.0243	2.6100e-003	0.0000	38.0894
Total	**0.0421**	**0.0302**	**0.2841**	**4.2000e-004**	**0.0520**	**3.1000e-004**	**0.0523**	**0.0138**	**2.8000e-004**	**0.0141**	**0.0000**	**38.0243**	**38.0243**	**2.6100e-003**	**0.0000**	**38.0894**

3.6 Architectural Coating - 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					
Archit. Coating	2.8321					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	**2.8544**	**0.1495**	**0.2361**	**3.9000e-004**		**6.7200e-003**	**6.7200e-003**		**6.7200e-003**	**6.7200e-003**	**0.0000**	**33.3200**	**33.3200**	**1.8200e-003**	**0.0000**	**33.3654**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0283	0.2672	4.0000e-004	0.0518	3.0000e-004	0.0521	0.0138	2.8000e-004	0.0140	0.0000	36.3637	36.3637	2.4500e-003	0.0000	36.4249
Total	**0.0394**	**0.0283**	**0.2672**	**4.0000e-004**	**0.0518**	**3.0000e-004**	**0.0521**	**0.0138**	**2.8000e-004**	**0.0140**	**0.0000**	**36.3637**	**36.3637**	**2.4500e-003**	**0.0000**	**36.4249**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.8321					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	**2.8544**	**0.1495**	**0.2361**	**3.9000e-004**		**6.7200e-003**	**6.7200e-003**		**6.7200e-003**	**6.7200e-003**	**0.0000**	**33.3199**	**33.3199**	**1.8200e-003**	**0.0000**	**33.3654**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0283	0.2672	4.0000e-004	0.0518	3.0000e-004	0.0521	0.0138	2.8000e-004	0.0140	0.0000	36.3637	36.3637	2.4500e-003	0.0000	36.4249
Total	**0.0394**	**0.0283**	**0.2672**	**4.0000e-004**	**0.0518**	**3.0000e-004**	**0.0521**	**0.0138**	**2.8000e-004**	**0.0140**	**0.0000**	**36.3637**	**36.3637**	**2.4500e-003**	**0.0000**	**36.4249**

3.6 Architectural Coating - 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					
Archit. Coating	0.2821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2200e-003	0.0149	0.0235	4.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238
Total	**0.2843**	**0.0149**	**0.0235**	**4.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.7000e-004**	**6.7000e-004**	**0.0000**	**3.3192**	**3.3192**	**1.8000e-004**	**0.0000**	**3.3238**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7100e-003	2.6900e-003	0.0254	4.0000e-005	5.1600e-003	3.0000e-005	5.1900e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	3.4907	3.4907	2.3000e-004	0.0000	3.4965
Total	**3.7100e-003**	**2.6900e-003**	**0.0254**	**4.0000e-005**	**5.1600e-003**	**3.0000e-005**	**5.1900e-003**	**1.3700e-003**	**3.0000e-005**	**1.4000e-003**	**0.0000**	**3.4907**	**3.4907**	**2.3000e-004**	**0.0000**	**3.4965**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2200e-003	0.0149	0.0235	4.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238
Total	**0.2843**	**0.0149**	**0.0235**	**4.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.7000e-004**	**6.7000e-004**	**0.0000**	**3.3192**	**3.3192**	**1.8000e-004**	**0.0000**	**3.3238**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7100e-003	2.6900e-003	0.0254	4.0000e-005	5.1600e-003	3.0000e-005	5.1900e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	3.4907	3.4907	2.3000e-004	0.0000	3.4965
Total	**3.7100e-003**	**2.6900e-003**	**0.0254**	**4.0000e-005**	**5.1600e-003**	**3.0000e-005**	**5.1900e-003**	**1.3700e-003**	**3.0000e-005**	**1.4000e-003**	**0.0000**	**3.4907**	**3.4907**	**2.3000e-004**	**0.0000**	**3.4965**

3.7 Paving - 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	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0722	75.0722	0.0243	0.0000	75.6792
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0343**	**0.3218**	**0.5467**	**8.5000e-004**		**0.0157**	**0.0157**		**0.0144**	**0.0144**	**0.0000**	**75.0722**	**75.0722**	**0.0243**	**0.0000**	**75.6792**

3.7 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	1.6200e-003	0.0153	2.0000e-005	3.1000e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.0978	2.0978	1.4000e-004	0.0000	2.1013
Total	**2.2300e-003**	**1.6200e-003**	**0.0153**	**2.0000e-005**	**3.1000e-003**	**2.0000e-005**	**3.1200e-003**	**8.2000e-004**	**2.0000e-005**	**8.4000e-004**	**0.0000**	**2.0978**	**2.0978**	**1.4000e-004**	**0.0000**	**2.1013**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0721	75.0721	0.0243	0.0000	75.6791
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0343**	**0.3218**	**0.5467**	**8.5000e-004**		**0.0157**	**0.0157**		**0.0144**	**0.0144**	**0.0000**	**75.0721**	**75.0721**	**0.0243**	**0.0000**	**75.6791**

3.7 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	1.6200e-003	0.0153	2.0000e-005	3.1000e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.0978	2.0978	1.4000e-004	0.0000	2.1013
Total	**2.2300e-003**	**1.6200e-003**	**0.0153**	**2.0000e-005**	**3.1000e-003**	**2.0000e-005**	**3.1200e-003**	**8.2000e-004**	**2.0000e-005**	**8.4000e-004**	**0.0000**	**2.0978**	**2.0978**	**1.4000e-004**	**0.0000**	**2.1013**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.1687	57.7864	64.5579	0.1829	8.3000	0.0779	8.3778	2.2266	0.0727	2.2993	0.0000	17,044.7297	17,044.7297	1.4688	0.0000	17,081.4500
Unmitigated	8.8100	61.4362	80.4868	0.2348	12.7040	0.1056	12.8096	3.4080	0.0987	3.5067	0.0000	21,836.3054	21,836.3054	1.6595	0.0000	21,877.7938

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,039.04	1,039.04	1039.04	1,741,743	1,137,943
Regional Shopping Center	22,453.66	22,453.66	22453.66	30,954,578	20,223,735
Total	23,492.70	23,492.70	23,492.70	32,696,321	21,361,678

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	7.30	3.90	3.70	40.20	19.20	40.60	86	11	3
Regional Shopping Center	6.70	5.00	8.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.529489	0.030363	0.161589	0.109405	0.013751	0.004574	0.018536	0.120800	0.003667	0.001270	0.005252	0.000722	0.000581
Regional Shopping Center	0.529489	0.030363	0.161589	0.109405	0.013751	0.004574	0.018536	0.120800	0.003667	0.001270	0.005252	0.000722	0.000581

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	4,032.9712	4,032.9712	0.0918	0.0175	4,040.4802
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,032.9712	4,032.9712	0.0918	0.0175	4,040.4802
NaturalGas Mitigated	0.0236	0.2058	0.1189	1.2800e-003		0.0163	0.0163		0.0163	0.0163	0.0000	233.0409	233.0409	4.4700e-003	4.2700e-003	234.4258
NaturalGas Unmitigated	0.0236	0.2058	0.1189	1.2800e-003		0.0163	0.0163		0.0163	0.0163	0.0000	233.0409	233.0409	4.4700e-003	4.2700e-003	234.4258

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.82567e+006	0.0152	0.1302	0.0554	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	150.7885	150.7885	2.8900e-003	2.7600e-003	151.6845
Regional Shopping Center	1.54135e+006	8.3100e-003	0.0756	0.0635	4.5000e-004		5.7400e-003	5.7400e-003		5.7400e-003	5.7400e-003	0.0000	82.2525	82.2525	1.5800e-003	1.5100e-003	82.7412
Total		**0.0236**	**0.2058**	**0.1189**	**1.2800e-003**		**0.0163**	**0.0163**		**0.0163**	**0.0163**	**0.0000**	**233.0409**	**233.0409**	**4.4700e-003**	**4.2700e-003**	**234.4258**

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					
Apartments Mid Rise	2.82567e+006	0.0152	0.1302	0.0554	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	150.7885	150.7885	2.8900e-003	2.7600e-003	151.6845
Regional Shopping Center	1.54135e+006	8.3100e-003	0.0756	0.0635	4.5000e-004		5.7400e-003	5.7400e-003		5.7400e-003	5.7400e-003	0.0000	82.2525	82.2525	1.5800e-003	1.5100e-003	82.7412
Total		**0.0236**	**0.2058**	**0.1189**	**1.2800e-003**		**0.0163**	**0.0163**		**0.0163**	**0.0163**	**0.0000**	**233.0409**	**233.0409**	**4.4700e-003**	**4.2700e-003**	**234.4258**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	872433	364.9332	8.3100e-003	1.5800e-003	365.6126
Regional Shopping Center	8.76905e+006	3,668.0381	0.0835	0.0159	3,674.8675
Total		**4,032.9712**	**0.0918**	**0.0175**	**4,040.4802**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	872433	364.9332	8.3100e-003	1.5800e-003	365.6126
Regional Shopping Center	8.76905e+006	3,668.0381	0.0835	0.0159	3,674.8675
Total		**4,032.9712**	**0.0918**	**0.0175**	**4,040.4802**

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	4.1029	0.0164	1.4232	8.0000e-005		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003	0.0000	2.3290	2.3290	2.2500e-003	0.0000	2.3853
Unmitigated	4.1029	0.0164	1.4232	8.0000e-005		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003	0.0000	2.3290	2.3290	2.2500e-003	0.0000	2.3853

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4576					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0431	0.0164	1.4232	8.0000e-005		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003	0.0000	2.3290	2.3290	2.2500e-003	0.0000	2.3853
Total	**4.1029**	**0.0164**	**1.4232**	**8.0000e-005**		**7.8800e-003**	**7.8800e-003**		**7.8800e-003**	**7.8800e-003**	**0.0000**	**2.3290**	**2.3290**	**2.2500e-003**	**0.0000**	**2.3853**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4576					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0431	0.0164	1.4232	8.0000e-005		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003	0.0000	2.3290	2.3290	2.2500e-003	0.0000	2.3853
Total	**4.1029**	**0.0164**	**1.4232**	**8.0000e-005**		**7.8800e-003**	**7.8800e-003**		**7.8800e-003**	**7.8800e-003**	**0.0000**	**2.3290**	**2.3290**	**2.2500e-003**	**0.0000**	**2.3853**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	477.4677	1.6756	0.0413	531.6685
Unmitigated	477.4677	1.6756	0.0413	531.6685

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.95554 / 7.84539	93.8418	0.3265	8.0500e-003	104.4033
Regional Shopping Center	41.1428 / 31.5207	383.6260	1.3491	0.0333	427.2653
Total		**477.4677**	**1.6756**	**0.0413**	**531.6685**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.95554 / 7.84539	93.8418	0.3265	8.0500e-003	104.4033
Regional Shopping Center	41.1428 / 31.5207	383.6260	1.3491	0.0333	427.2653
Total		**477.4677**	**1.6756**	**0.0413**	**531.6685**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	124.3629	7.3496	0.0000	308.1039
Unmitigated	165.8172	9.7995	0.0000	410.8052

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	87.86	17.8348	1.0540	0.0000	44.1849
Regional Shopping Center	729.01	147.9824	8.7455	0.0000	366.6202
Total		**165.8172**	**9.7995**	**0.0000**	**410.8052**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	65.895	13.3761	0.7905	0.0000	33.1387
Regional Shopping Center	546.757	110.9868	6.5591	0.0000	274.9652
Total		**124.3629**	**7.3496**	**0.0000**	**308.1039**

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

ATTACHMENT 2

CalEEMod Output– Existing Land Use Emissions

9489 South Dogwood Annexation - Existing Uses 2025

Imperial County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	59.00	1000sqft	50.00	59,000.00	0
Unrefrigerated Warehouse-No Rail	24.00	1000sqft	3.13	24,000.00	0
Single Family Housing	2.00	Dwelling Unit	11.92	17,000.00	6

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2025
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	922.18	**CH4 Intensity (lb/MWhr)**	0.021	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity factors reduced to reflect RPS 2020 33% mandate (922.18, 0.021, 0.004)

Land Use - On-site uses

Vehicle Trips -

Woodstoves - one house has fireplace

Energy Use -

Construction Phase -

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Table Name	Column Name	Default Value	New Value
tblFireplaces	NumberGas	1.10	0.00
tblFireplaces	NumberNoFireplace	0.00	1.00
tblFireplaces	NumberWood	0.00	1.00
tblLandUse	LandUseSquareFeet	3,600.00	17,000.00
tblLandUse	LotAcreage	1.35	50.00
tblLandUse	LotAcreage	0.55	3.13
tblLandUse	LotAcreage	0.65	11.92
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.021
tblProjectCharacteristics	CO2IntensityFactor	1270.9	922.18
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0631	0.6275	0.3979	6.9000e-004	1.3645	0.0314	1.3959	0.1363	0.0292	0.1655	0.0000	61.8565	61.8565	0.0170	0.0000	62.2807
2020	0.4863	5.0054	3.3635	6.2200e-003	20.4135	0.2360	20.6495	2.3521	0.2183	2.5705	0.0000	546.0272	546.0272	0.1592	0.0000	550.0065
2021	0.2806	2.4851	2.3946	4.3300e-003	36.0022	0.1258	36.1279	3.5973	0.1182	3.7155	0.0000	378.5665	378.5665	0.0775	0.0000	380.5031
2022	0.2521	2.2257	2.3383	4.3000e-003	35.8642	0.1057	35.9700	3.5835	0.0995	3.6830	0.0000	376.0454	376.0454	0.0764	0.0000	377.9553
2023	0.2320	2.0180	2.3034	4.2800e-003	35.8642	0.0913	35.9555	3.5835	0.0859	3.6694	0.0000	374.2388	374.2388	0.0751	0.0000	376.1156
2024	0.2159	1.8827	2.2871	4.2600e-003	35.1506	0.0799	35.2305	3.5122	0.0751	3.5873	0.0000	372.3196	372.3196	0.0755	0.0000	374.2075
2025	0.7227	0.3241	0.5630	8.8000e-004	3.8986	0.0156	3.9142	0.3895	0.0145	0.4039	0.0000	77.5399	77.5399	0.0218	0.0000	78.0839
Maximum	**0.7227**	**5.0054**	**3.3635**	**6.2200e-003**	**36.0022**	**0.2360**	**36.1279**	**3.5973**	**0.2183**	**3.7155**	**0.0000**	**546.0272**	**546.0272**	**0.1592**	**0.0000**	**550.0065**

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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					
2019	0.0631	0.6275	0.3979	6.9000e-004	8.2000e-004	0.0314	0.0322	2.3000e-004	0.0292	0.0295	0.0000	61.8564	61.8564	0.0170	0.0000	62.2806
2020	0.4863	5.0054	3.3635	6.2200e-003	0.8509	0.2360	1.0870	0.4000	0.2183	0.6184	0.0000	546.0265	546.0265	0.1592	0.0000	550.0059
2021	0.2806	2.4851	2.3946	4.3300e-003	0.0244	0.1258	0.1501	7.1300e-003	0.1182	0.1254	0.0000	378.5661	378.5661	0.0775	0.0000	380.5027
2022	0.2521	2.2257	2.3383	4.3000e-003	0.0243	0.1057	0.1300	7.1100e-003	0.0995	0.1066	0.0000	376.0451	376.0451	0.0764	0.0000	377.9550
2023	0.2320	2.0180	2.3034	4.2800e-003	0.0243	0.0913	0.1155	7.1100e-003	0.0859	0.0930	0.0000	374.2385	374.2385	0.0751	0.0000	376.1152
2024	0.2159	1.8827	2.2871	4.2600e-003	0.0237	0.0799	0.1037	6.9500e-003	0.0751	0.0821	0.0000	372.3192	372.3192	0.0755	0.0000	374.2071
2025	0.7227	0.3241	0.5630	8.8000e-004	2.3400e-003	0.0156	0.0179	6.6000e-004	0.0145	0.0151	0.0000	77.5398	77.5398	0.0218	0.0000	78.0838
Maximum	**0.7227**	**5.0054**	**3.3635**	**6.2200e-003**	**0.8509**	**0.2360**	**1.0870**	**0.4000**	**0.2183**	**0.6184**	**0.0000**	**546.0265**	**546.0265**	**0.1592**	**0.0000**	**550.0059**

	ROG	NOx	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**	**99.44**	**0.00**	**99.03**	**97.50**	**0.00**	**93.99**	**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	11-13-2019	2-12-2020	1.2536	1.2536
2	2-13-2020	5-12-2020	1.5609	1.5609
3	5-13-2020	8-12-2020	1.8030	1.8030
4	8-13-2020	11-12-2020	1.1501	1.1501

5	**11-13-2020**	**2-12-2021**	0.7339	0.7339
6	**2-13-2021**	**5-12-2021**	0.6734	0.6734
7	**5-13-2021**	**8-12-2021**	0.6964	0.6964
8	**8-13-2021**	**11-12-2021**	0.6962	0.6962
9	**11-13-2021**	**2-12-2022**	0.6631	0.6631
10	**2-13-2022**	**5-12-2022**	0.6056	0.6056
11	**5-13-2022**	**8-12-2022**	0.6264	0.6264
12	**8-13-2022**	**11-12-2022**	0.6261	0.6261
13	**11-13-2022**	**2-12-2023**	0.5989	0.5989
14	**2-13-2023**	**5-12-2023**	0.5502	0.5502
15	**5-13-2023**	**8-12-2023**	0.5693	0.5693
16	**8-13-2023**	**11-12-2023**	0.5688	0.5688
17	**11-13-2023**	**2-12-2024**	0.5518	0.5518
18	**2-13-2024**	**5-12-2024**	0.5219	0.5219
19	**5-13-2024**	**8-12-2024**	0.5340	0.5340
20	**8-13-2024**	**11-12-2024**	0.5335	0.5335
21	**11-13-2024**	**2-12-2025**	0.4034	0.4034
22	**2-13-2025**	**5-12-2025**	0.4516	0.4516
23	**5-13-2025**	**8-12-2025**	0.4479	0.4479
		Highest	1.8030	1.8030

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5785	1.5300e-003	0.1470	2.1000e-004		0.0181	0.0181		0.0181	0.0181	1.6039	0.0257	1.6296	3.0000e-005	1.4000e-004	1.6725
Energy	0.0115	0.1044	0.0863	6.3000e-004		7.9500e-003	7.9500e-003		7.9500e-003	7.9500e-003	0.0000	436.9925	436.9925	9.5400e-003	3.4900e-003	438.2707
Mobile	0.1561	1.0662	1.6994	5.1000e-003	153.2071	2.4200e-003	153.2095	15.2905	2.2600e-003	15.2928	0.0000	473.8197	473.8197	0.0313	0.0000	474.6023
Waste						0.0000	0.0000		0.0000	0.0000	19.9297	0.0000	19.9297	1.1778	0.0000	49.3749
Water						0.0000	0.0000		0.0000	0.0000	6.1306	105.6323	111.7629	0.6321	0.0153	132.1321
Total	**0.7461**	**1.1721**	**1.9326**	**5.9400e-003**	**153.2071**	**0.0285**	**153.2355**	**15.2905**	**0.0283**	**15.3188**	**27.6642**	**1,016.4702**	**1,044.1344**	**1.8508**	**0.0190**	**1,096.0524**

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	0.5785	1.5300e-003	0.1470	2.1000e-004		0.0181	0.0181		0.0181	0.0181	1.6039	0.0257	1.6296	3.0000e-005	1.4000e-004	1.6725
Energy	0.0115	0.1044	0.0863	6.3000e-004		7.9500e-003	7.9500e-003		7.9500e-003	7.9500e-003	0.0000	436.9925	436.9925	9.5400e-003	3.4900e-003	438.2707
Mobile	0.1561	1.0662	1.6994	5.1000e-003	153.2071	2.4200e-003	153.2095	15.2905	2.2600e-003	15.2928	0.0000	473.8197	473.8197	0.0313	0.0000	474.6023
Waste						0.0000	0.0000		0.0000	0.0000	19.9297	0.0000	19.9297	1.1778	0.0000	49.3749
Water						0.0000	0.0000		0.0000	0.0000	6.1306	105.6323	111.7629	0.6321	0.0153	132.1321
Total	**0.7461**	**1.1721**	**1.9326**	**5.9400e-003**	**153.2071**	**0.0285**	**153.2355**	**15.2905**	**0.0283**	**15.3188**	**27.6642**	**1,016.4702**	**1,044.1344**	**1.8508**	**0.0190**	**1,096.0524**

	ROG	NOx	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/13/2019	2/18/2020	5	70	
2	Site Preparation	Site Preparation	2/19/2020	4/14/2020	5	40	
3	Grading	Grading	4/15/2020	9/15/2020	5	110	
4	Building Construction	Building Construction	9/16/2020	12/17/2024	5	1110	
5	Paving	Paving	12/18/2024	4/1/2025	5	75	
6	Architectural Coating	Architectural Coating	4/2/2025	7/15/2025	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 34,425; Residential Outdoor: 11,475; Non-Residential Indoor: 124,500; Non-Residential Outdoor: 41,500; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
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
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
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
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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	7.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	14.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0615	0.6262	0.3861	6.8000e-004		0.0314	0.0314		0.0292	0.0292	0.0000	60.5961	60.5961	0.0169	0.0000	61.0175
Total	**0.0615**	**0.6262**	**0.3861**	**6.8000e-004**		**0.0314**	**0.0314**		**0.0292**	**0.0292**	**0.0000**	**60.5961**	**60.5961**	**0.0169**	**0.0000**	**61.0175**

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2800e-003	0.0118	1.0000e-005	1.3645	1.0000e-005	1.3645	0.1363	1.0000e-005	0.1363	0.0000	1.2604	1.2604	1.1000e-004	0.0000	1.2632
Total	**1.6400e-003**	**1.2800e-003**	**0.0118**	**1.0000e-005**	**1.3645**	**1.0000e-005**	**1.3645**	**0.1363**	**1.0000e-005**	**0.1363**	**0.0000**	**1.2604**	**1.2604**	**1.1000e-004**	**0.0000**	**1.2632**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0615	0.6262	0.3861	6.8000e-004		0.0314	0.0314		0.0292	0.0292	0.0000	60.5960	60.5960	0.0169	0.0000	61.0174
Total	**0.0615**	**0.6262**	**0.3861**	**6.8000e-004**		**0.0314**	**0.0314**		**0.0292**	**0.0292**	**0.0000**	**60.5960**	**60.5960**	**0.0169**	**0.0000**	**61.0174**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2800e-003	0.0118	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.2604	1.2604	1.1000e-004	0.0000	1.2632
Total	**1.6400e-003**	**1.2800e-003**	**0.0118**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**1.2604**	**1.2604**	**1.1000e-004**	**0.0000**	**1.2632**

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	0.0580	0.5810	0.3807	6.8000e-004		0.0290	0.0290		0.0270	0.0270	0.0000	59.4976	59.4976	0.0168	0.0000	59.9175
Total	**0.0580**	**0.5810**	**0.3807**	**6.8000e-004**		**0.0290**	**0.0290**		**0.0270**	**0.0270**	**0.0000**	**59.4976**	**59.4976**	**0.0168**	**0.0000**	**59.9175**

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	1.5200e-003	1.1700e-003	0.0109	1.0000e-005	1.3645	1.0000e-005	1.3645	0.1363	1.0000e-005	0.1363	0.0000	1.2207	1.2207	1.0000e-004	0.0000	1.2232
Total	**1.5200e-003**	**1.1700e-003**	**0.0109**	**1.0000e-005**	**1.3645**	**1.0000e-005**	**1.3645**	**0.1363**	**1.0000e-005**	**0.1363**	**0.0000**	**1.2207**	**1.2207**	**1.0000e-004**	**0.0000**	**1.2232**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0580	0.5810	0.3807	6.8000e-004		0.0290	0.0290		0.0270	0.0270	0.0000	59.4975	59.4975	0.0168	0.0000	59.9174
Total	**0.0580**	**0.5810**	**0.3807**	**6.8000e-004**		**0.0290**	**0.0290**		**0.0270**	**0.0270**	**0.0000**	**59.4975**	**59.4975**	**0.0168**	**0.0000**	**59.9174**

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	1.5200e-003	1.1700e-003	0.0109	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.2207	1.2207	1.0000e-004	0.0000	1.2232
Total	**1.5200e-003**	**1.1700e-003**	**0.0109**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**1.2207**	**1.2207**	**1.0000e-004**	**0.0000**	**1.2232**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0815	0.8484	0.4303	7.6000e-004		0.0440	0.0440		0.0404	0.0404	0.0000	66.8614	66.8614	0.0216	0.0000	67.4020
Total	**0.0815**	**0.8484**	**0.4303**	**7.6000e-004**	**0.3613**	**0.0440**	**0.4053**	**0.1986**	**0.0404**	**0.2390**	**0.0000**	**66.8614**	**66.8614**	**0.0216**	**0.0000**	**67.4020**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0900e-003	1.6000e-003	0.0149	2.0000e-005	1.8713	1.0000e-005	1.8714	0.1869	1.0000e-005	0.1870	0.0000	1.6741	1.6741	1.4000e-004	0.0000	1.6776
Total	**2.0900e-003**	**1.6000e-003**	**0.0149**	**2.0000e-005**	**1.8713**	**1.0000e-005**	**1.8714**	**0.1869**	**1.0000e-005**	**0.1870**	**0.0000**	**1.6741**	**1.6741**	**1.4000e-004**	**0.0000**	**1.6776**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0815	0.8484	0.4303	7.6000e-004		0.0440	0.0440		0.0404	0.0404	0.0000	66.8613	66.8613	0.0216	0.0000	67.4019
Total	**0.0815**	**0.8484**	**0.4303**	**7.6000e-004**	**0.3613**	**0.0440**	**0.4053**	**0.1986**	**0.0404**	**0.2390**	**0.0000**	**66.8613**	**66.8613**	**0.0216**	**0.0000**	**67.4019**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0900e-003	1.6000e-003	0.0149	2.0000e-005	1.1200e-003	1.0000e-005	1.1400e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.6741	1.6741	1.4000e-004	0.0000	1.6776
Total	**2.0900e-003**	**1.6000e-003**	**0.0149**	**2.0000e-005**	**1.1200e-003**	**1.0000e-005**	**1.1400e-003**	**3.2000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.6741**	**1.6741**	**1.4000e-004**	**0.0000**	**1.6776**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4770	0.0000	0.4770	0.1978	0.0000	0.1978	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2448	2.7609	1.7577	3.4100e-003		0.1196	0.1196		0.1100	0.1100	0.0000	299.6636	299.6636	0.0969	0.0000	302.0865
Total	**0.2448**	**2.7609**	**1.7577**	**3.4100e-003**	**0.4770**	**0.1196**	**0.5966**	**0.1978**	**0.1100**	**0.3078**	**0.0000**	**299.6636**	**299.6636**	**0.0969**	**0.0000**	**302.0865**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3900e-003	4.8900e-003	0.0455	6.0000e-005	5.7180	4.0000e-005	5.7180	0.5712	4.0000e-005	0.5712	0.0000	5.1154	5.1154	4.2000e-004	0.0000	5.1259
Total	**6.3900e-003**	**4.8900e-003**	**0.0455**	**6.0000e-005**	**5.7180**	**4.0000e-005**	**5.7180**	**0.5712**	**4.0000e-005**	**0.5712**	**0.0000**	**5.1154**	**5.1154**	**4.2000e-004**	**0.0000**	**5.1259**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.4770	0.0000	0.4770	0.1978	0.0000	0.1978	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2448	2.7609	1.7577	3.4100e-003		0.1196	0.1196		0.1100	0.1100	0.0000	299.6633	299.6633	0.0969	0.0000	302.0862
Total	**0.2448**	**2.7609**	**1.7577**	**3.4100e-003**	**0.4770**	**0.1196**	**0.5966**	**0.1978**	**0.1100**	**0.3078**	**0.0000**	**299.6633**	**299.6633**	**0.0969**	**0.0000**	**302.0862**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3900e-003	4.8900e-003	0.0455	6.0000e-005	3.4400e-003	4.0000e-005	3.4800e-003	9.6000e-004	4.0000e-005	1.0000e-003	0.0000	5.1154	5.1154	4.2000e-004	0.0000	5.1259
Total	**6.3900e-003**	**4.8900e-003**	**0.0455**	**6.0000e-005**	**3.4400e-003**	**4.0000e-005**	**3.4800e-003**	**9.6000e-004**	**4.0000e-005**	**1.0000e-003**	**0.0000**	**5.1154**	**5.1154**	**4.2000e-004**	**0.0000**	**5.1259**

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	0.0816	0.7387	0.6487	1.0400e-003		0.0430	0.0430		0.0404	0.0404	0.0000	89.1698	89.1698	0.0218	0.0000	89.7137
Total	**0.0816**	**0.7387**	**0.6487**	**1.0400e-003**		**0.0430**	**0.0430**		**0.0404**	**0.0404**	**0.0000**	**89.1698**	**89.1698**	**0.0218**	**0.0000**	**89.7137**

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	2.4100e-003	0.0627	0.0177	1.7000e-004	3.4167	3.8000e-004	3.4171	0.3416	3.6000e-004	0.3419	0.0000	16.3790	16.3790	9.1000e-004	0.0000	16.4017
Worker	8.0500e-003	6.1600e-003	0.0573	7.0000e-005	7.2046	5.0000e-005	7.2047	0.7197	5.0000e-005	0.7198	0.0000	6.4455	6.4455	5.2000e-004	0.0000	6.4586
Total	**0.0105**	**0.0689**	**0.0750**	**2.4000e-004**	**10.6213**	**4.3000e-004**	**10.6218**	**1.0613**	**4.1000e-004**	**1.0617**	**0.0000**	**22.8245**	**22.8245**	**1.4300e-003**	**0.0000**	**22.8602**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0816	0.7387	0.6487	1.0400e-003		0.0430	0.0430		0.0404	0.0404	0.0000	89.1697	89.1697	0.0218	0.0000	89.7136
Total	**0.0816**	**0.7387**	**0.6487**	**1.0400e-003**		**0.0430**	**0.0430**		**0.0404**	**0.0404**	**0.0000**	**89.1697**	**89.1697**	**0.0218**	**0.0000**	**89.7136**

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	2.4100e-003	0.0627	0.0177	1.7000e-004	2.8500e-003	3.8000e-004	3.2300e-003	8.9000e-004	3.6000e-004	1.2500e-003	0.0000	16.3790	16.3790	9.1000e-004	0.0000	16.4017
Worker	8.0500e-003	6.1600e-003	0.0573	7.0000e-005	4.3300e-003	5.0000e-005	4.3800e-003	1.2200e-003	5.0000e-005	1.2600e-003	0.0000	6.4455	6.4455	5.2000e-004	0.0000	6.4586
Total	**0.0105**	**0.0689**	**0.0750**	**2.4000e-004**	**7.1800e-003**	**4.3000e-004**	**7.6100e-003**	**2.1100e-003**	**4.1000e-004**	**2.5100e-003**	**0.0000**	**22.8245**	**22.8245**	**1.4300e-003**	**0.0000**	**22.8602**

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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2867**	**302.2867**	**0.0729**	**0.0000**	**304.1099**

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	7.1500e-003	0.1912	0.0531	5.8000e-004	11.5813	4.8000e-004	11.5818	1.1577	4.6000e-004	1.1582	0.0000	55.1926	55.1926	2.9000e-003	0.0000	55.2652
Worker	0.0254	0.0191	0.1784	2.4000e-004	24.4209	1.7000e-004	24.4211	2.4396	1.6000e-004	2.4397	0.0000	21.0873	21.0873	1.6300e-003	0.0000	21.1280
Total	**0.0326**	**0.2102**	**0.2315**	**8.2000e-004**	**36.0022**	**6.5000e-004**	**36.0028**	**3.5973**	**6.2000e-004**	**3.5979**	**0.0000**	**76.2799**	**76.2799**	**4.5300e-003**	**0.0000**	**76.3932**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2863**	**302.2863**	**0.0729**	**0.0000**	**304.1095**

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	7.1500e-003	0.1912	0.0531	5.8000e-004	9.6700e-003	4.8000e-004	0.0102	3.0100e-003	4.6000e-004	3.4800e-003	0.0000	55.1926	55.1926	2.9000e-003	0.0000	55.2652
Worker	0.0254	0.0191	0.1784	2.4000e-004	0.0147	1.7000e-004	0.0148	4.1200e-003	1.6000e-004	4.2800e-003	0.0000	21.0873	21.0873	1.6300e-003	0.0000	21.1280
Total	**0.0326**	**0.2102**	**0.2315**	**8.2000e-004**	**0.0243**	**6.5000e-004**	**0.0250**	**7.1300e-003**	**6.2000e-004**	**7.7600e-003**	**0.0000**	**76.2799**	**76.2799**	**4.5300e-003**	**0.0000**	**76.3932**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2428**	**301.2428**	**0.0722**	**0.0000**	**303.0471**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6000e-003	0.1782	0.0482	5.8000e-004	11.5369	4.1000e-004	11.5373	1.1533	3.9000e-004	1.1537	0.0000	54.5623	54.5623	2.7400e-003	0.0000	54.6307
Worker	0.0237	0.0174	0.1628	2.3000e-004	24.3273	1.6000e-004	24.3275	2.4302	1.5000e-004	2.4304	0.0000	20.2403	20.2403	1.4900e-003	0.0000	20.2776
Total	**0.0303**	**0.1956**	**0.2110**	**8.1000e-004**	**35.8642**	**5.7000e-004**	**35.8648**	**3.5835**	**5.4000e-004**	**3.5840**	**0.0000**	**74.8026**	**74.8026**	**4.2300e-003**	**0.0000**	**74.9083**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2425**	**301.2425**	**0.0722**	**0.0000**	**303.0467**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6000e-003	0.1782	0.0482	5.8000e-004	9.6400e-003	4.1000e-004	0.0100	3.0000e-003	3.9000e-004	3.3900e-003	0.0000	54.5623	54.5623	2.7400e-003	0.0000	54.6307
Worker	0.0237	0.0174	0.1628	2.3000e-004	0.0146	1.6000e-004	0.0148	4.1000e-003	1.5000e-004	4.2500e-003	0.0000	20.2403	20.2403	1.4900e-003	0.0000	20.2776
Total	**0.0303**	**0.1956**	**0.2110**	**8.1000e-004**	**0.0243**	**5.7000e-004**	**0.0248**	**7.1000e-003**	**5.4000e-004**	**7.6400e-003**	**0.0000**	**74.8026**	**74.8026**	**4.2300e-003**	**0.0000**	**74.9083**

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3462**	**301.3462**	**0.0717**	**0.0000**	**303.1383**

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	5.3300e-003	0.1319	0.0419	5.6000e-004	11.5369	1.6000e-004	11.5371	1.1533	1.6000e-004	1.1534	0.0000	53.4195	53.4195	2.0100e-003	0.0000	53.4698
Worker	0.0222	0.0160	0.1498	2.2000e-004	24.3273	1.6000e-004	24.3275	2.4302	1.4000e-004	2.4304	0.0000	19.4732	19.4732	1.3700e-003	0.0000	19.5075
Total	**0.0275**	**0.1479**	**0.1917**	**7.8000e-004**	**35.8642**	**3.2000e-004**	**35.8646**	**3.5835**	**3.0000e-004**	**3.5838**	**0.0000**	**72.8927**	**72.8927**	**3.3800e-003**	**0.0000**	**72.9773**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3458**	**301.3458**	**0.0717**	**0.0000**	**303.1380**

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	5.3300e-003	0.1319	0.0419	5.6000e-004	9.6400e-003	1.6000e-004	9.8000e-003	3.0000e-003	1.6000e-004	3.1600e-003	0.0000	53.4195	53.4195	2.0100e-003	0.0000	53.4698
Worker	0.0222	0.0160	0.1498	2.2000e-004	0.0146	1.6000e-004	0.0148	4.1000e-003	1.4000e-004	4.2500e-003	0.0000	19.4732	19.4732	1.3700e-003	0.0000	19.5075
Total	**0.0275**	**0.1479**	**0.1917**	**7.8000e-004**	**0.0243**	**3.2000e-004**	**0.0246**	**7.1000e-003**	**3.0000e-004**	**7.4100e-003**	**0.0000**	**72.8927**	**72.8927**	**3.3800e-003**	**0.0000**	**72.9773**

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	0.1854	1.6939	2.0370	3.4000e-003		0.0773	0.0773		0.0727	0.0727	0.0000	292.1299	292.1299	0.0691	0.0000	293.8569
Total	**0.1854**	**1.6939**	**2.0370**	**3.4000e-003**		**0.0773**	**0.0773**		**0.0727**	**0.0727**	**0.0000**	**292.1299**	**292.1299**	**0.0691**	**0.0000**	**293.8569**

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	4.9700e-003	0.1265	0.0381	5.4000e-004	11.1819	1.6000e-004	11.1821	1.1178	1.5000e-004	1.1179	0.0000	51.5876	51.5876	1.9200e-003	0.0000	51.6357
Worker	0.0202	0.0145	0.1367	2.0000e-004	23.5788	1.5000e-004	23.5790	2.3554	1.4000e-004	2.3556	0.0000	18.2865	18.2865	1.2500e-003	0.0000	18.3178
Total	**0.0252**	**0.1410**	**0.1747**	**7.4000e-004**	**34.7607**	**3.1000e-004**	**34.7610**	**3.4732**	**2.9000e-004**	**3.4735**	**0.0000**	**69.8741**	**69.8741**	**3.1700e-003**	**0.0000**	**69.9535**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1854	1.6939	2.0370	3.4000e-003		0.0773	0.0773		0.0727	0.0727	0.0000	292.1295	292.1295	0.0691	0.0000	293.8565
Total	**0.1854**	**1.6939**	**2.0370**	**3.4000e-003**		**0.0773**	**0.0773**		**0.0727**	**0.0727**	**0.0000**	**292.1295**	**292.1295**	**0.0691**	**0.0000**	**293.8565**

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	4.9700e-003	0.1265	0.0381	5.4000e-004	9.3400e-003	1.6000e-004	9.4900e-003	2.9100e-003	1.5000e-004	3.0600e-003	0.0000	51.5876	51.5876	1.9200e-003	0.0000	51.6357
Worker	0.0202	0.0145	0.1367	2.0000e-004	0.0142	1.5000e-004	0.0143	3.9800e-003	1.4000e-004	4.1100e-003	0.0000	18.2865	18.2865	1.2500e-003	0.0000	18.3178
Total	**0.0252**	**0.1410**	**0.1747**	**7.4000e-004**	**0.0235**	**3.1000e-004**	**0.0238**	**6.8900e-003**	**2.9000e-004**	**7.1700e-003**	**0.0000**	**69.8741**	**69.8741**	**3.1700e-003**	**0.0000**	**69.9535**

3.6 Paving - 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	4.9400e-003	0.0476	0.0731	1.1000e-004		2.3400e-003	2.3400e-003		2.1600e-003	2.1600e-003	0.0000	10.0133	10.0133	3.2400e-003	0.0000	10.0942
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.9400e-003**	**0.0476**	**0.0731**	**1.1000e-004**		**2.3400e-003**	**2.3400e-003**		**2.1600e-003**	**2.1600e-003**	**0.0000**	**10.0133**	**10.0133**	**3.2400e-003**	**0.0000**	**10.0942**

3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.4000e-004	2.2600e-003	0.0000	0.3899	0.0000	0.3899	0.0390	0.0000	0.0390	0.0000	0.3024	0.3024	2.0000e-005	0.0000	0.3029
Total	**3.3000e-004**	**2.4000e-004**	**2.2600e-003**	**0.0000**	**0.3899**	**0.0000**	**0.3899**	**0.0390**	**0.0000**	**0.0390**	**0.0000**	**0.3024**	**0.3024**	**2.0000e-005**	**0.0000**	**0.3029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.9400e-003	0.0476	0.0731	1.1000e-004		2.3400e-003	2.3400e-003		2.1600e-003	2.1600e-003	0.0000	10.0133	10.0133	3.2400e-003	0.0000	10.0942
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.9400e-003**	**0.0476**	**0.0731**	**1.1000e-004**		**2.3400e-003**	**2.3400e-003**		**2.1600e-003**	**2.1600e-003**	**0.0000**	**10.0133**	**10.0133**	**3.2400e-003**	**0.0000**	**10.0942**

3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.4000e-004	2.2600e-003	0.0000	2.3000e-004	0.0000	2.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3024	0.3024	2.0000e-005	0.0000	0.3029
Total	**3.3000e-004**	**2.4000e-004**	**2.2600e-003**	**0.0000**	**2.3000e-004**	**0.0000**	**2.4000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.3024**	**0.3024**	**2.0000e-005**	**0.0000**	**0.3029**

3.6 Paving - 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	0.0297	0.2789	0.4738	7.4000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	65.0626	65.0626	0.0210	0.0000	65.5886
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0297**	**0.2789**	**0.4738**	**7.4000e-004**		**0.0136**	**0.0136**		**0.0125**	**0.0125**	**0.0000**	**65.0626**	**65.0626**	**0.0210**	**0.0000**	**65.5886**

3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0500e-003	1.4700e-003	0.0139	2.0000e-005	2.5341	2.0000e-005	2.5341	0.2532	1.0000e-005	0.2532	0.0000	1.8867	1.8867	1.3000e-004	0.0000	1.8899
Total	**2.0500e-003**	**1.4700e-003**	**0.0139**	**2.0000e-005**	**2.5341**	**2.0000e-005**	**2.5341**	**0.2532**	**1.0000e-005**	**0.2532**	**0.0000**	**1.8867**	**1.8867**	**1.3000e-004**	**0.0000**	**1.8899**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0297	0.2789	0.4738	7.4000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	65.0625	65.0625	0.0210	0.0000	65.5886
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0297**	**0.2789**	**0.4738**	**7.4000e-004**		**0.0136**	**0.0136**		**0.0125**	**0.0125**	**0.0000**	**65.0625**	**65.0625**	**0.0210**	**0.0000**	**65.5886**

3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0500e-003	1.4700e-003	0.0139	2.0000e-005	1.5200e-003	2.0000e-005	1.5400e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.8867	1.8867	1.3000e-004	0.0000	1.8899
Total	**2.0500e-003**	**1.4700e-003**	**0.0139**	**2.0000e-005**	**1.5200e-003**	**2.0000e-005**	**1.5400e-003**	**4.3000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.8867**	**1.8867**	**1.3000e-004**	**0.0000**	**1.8899**

3.7 Architectural Coating - 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					
Archit. Coating	0.6834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**0.6898**	**0.0430**	**0.0678**	**1.1000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-003	7.9000e-004	7.4600e-003	1.0000e-005	1.3645	1.0000e-005	1.3645	0.1363	1.0000e-005	0.1363	0.0000	1.0159	1.0159	7.0000e-005	0.0000	1.0176
Total	**1.1000e-003**	**7.9000e-004**	**7.4600e-003**	**1.0000e-005**	**1.3645**	**1.0000e-005**	**1.3645**	**0.1363**	**1.0000e-005**	**0.1363**	**0.0000**	**1.0159**	**1.0159**	**7.0000e-005**	**0.0000**	**1.0176**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**0.6898**	**0.0430**	**0.0678**	**1.1000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-003	7.9000e-004	7.4600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.0159	1.0159	7.0000e-005	0.0000	1.0176
Total	**1.1000e-003**	**7.9000e-004**	**7.4600e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**1.0159**	**1.0159**	**7.0000e-005**	**0.0000**	**1.0176**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1561	1.0662	1.6994	5.1000e-003	153.2071	2.4200e-003	153.2095	15.2905	2.2600e-003	15.2928	0.0000	473.8197	473.8197	0.0313	0.0000	474.6023
Unmitigated	0.1561	1.0662	1.6994	5.1000e-003	153.2071	2.4200e-003	153.2095	15.2905	2.2600e-003	15.2928	0.0000	473.8197	473.8197	0.0313	0.0000	474.6023

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	411.23	77.88	40.12	686,653	686,653
Single Family Housing	19.04	19.82	17.24	31,672	31,672
Unrefrigerated Warehouse-No Rail	40.32	40.32	40.32	104,084	104,084
Total	470.59	138.02	97.68	822,409	822,409

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
General Light Industry	6.70	5.00	8.90	59.00	28.00	13.00	92	5	3
Single Family Housing	7.30	3.90	3.70	40.20	19.20	40.60	86	11	3
Unrefrigerated Warehouse-No	6.70	5.00	8.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.529489	0.030363	0.161589	0.109405	0.013751	0.004574	0.018536	0.120800	0.003667	0.001270	0.005252	0.000722	0.000581
Single Family Housing	0.529489	0.030363	0.161589	0.109405	0.013751	0.004574	0.018536	0.120800	0.003667	0.001270	0.005252	0.000722	0.000581
Unrefrigerated Warehouse-No Rail	0.529489	0.030363	0.161589	0.109405	0.013751	0.004574	0.018536	0.120800	0.003667	0.001270	0.005252	0.000722	0.000581

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	323.1426	323.1426	7.3600e-003	1.4000e-003	323.7443
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	323.1426	323.1426	7.3600e-003	1.4000e-003	323.7443
NaturalGas Mitigated	0.0115	0.1044	0.0863	6.3000e-004		7.9500e-003	7.9500e-003		7.9500e-003	7.9500e-003	0.0000	113.8498	113.8498	2.1800e-003	2.0900e-003	114.5264
NaturalGas Unmitigated	0.0115	0.1044	0.0863	6.3000e-004		7.9500e-003	7.9500e-003		7.9500e-003	7.9500e-003	0.0000	113.8498	113.8498	2.1800e-003	2.0900e-003	114.5264

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					
General Light Industry	1.99951e+006	0.0108	0.0980	0.0823	5.9000e-004		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	106.7015	106.7015	2.0500e-003	1.9600e-003	107.3355
Single Family Housing	73715.3	4.0000e-004	3.4000e-003	1.4500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9337	3.9337	8.0000e-005	7.0000e-005	3.9571
Unrefrigerated Warehouse-No Rail	60240	3.2000e-004	2.9500e-003	2.4800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.2146	3.2146	6.0000e-005	6.0000e-005	3.2337
Total		**0.0115**	**0.1044**	**0.0863**	**6.3000e-004**		**7.9400e-003**	**7.9400e-003**		**7.9400e-003**	**7.9400e-003**	**0.0000**	**113.8498**	**113.8498**	**2.1900e-003**	**2.0900e-003**	**114.5264**

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					
General Light Industry	1.99951e+006	0.0108	0.0980	0.0823	5.9000e-004		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	106.7015	106.7015	2.0500e-003	1.9600e-003	107.3355
Single Family Housing	73715.3	4.0000e-004	3.4000e-003	1.4500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9337	3.9337	8.0000e-005	7.0000e-005	3.9571
Unrefrigerated Warehouse-No Rail	60240	3.2000e-004	2.9500e-003	2.4800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.2146	3.2146	6.0000e-005	6.0000e-005	3.2337
Total		**0.0115**	**0.1044**	**0.0863**	**6.3000e-004**		**7.9400e-003**	**7.9400e-003**		**7.9400e-003**	**7.9400e-003**	**0.0000**	**113.8498**	**113.8498**	**2.1900e-003**	**2.0900e-003**	**114.5264**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	680270	284.5527	6.4800e-003	1.2300e-003	285.0825
Single Family Housing	15935.4	6.6657	1.5000e-004	3.0000e-005	6.6781
Unrefrigerated Warehouse-No Rail	76320	31.9242	7.3000e-004	1.4000e-004	31.9836
Total		**323.1426**	**7.3600e-003**	**1.4000e-003**	**323.7443**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	680270	284.5527	6.4800e-003	1.2300e-003	285.0825
Single Family Housing	15935.4	6.6657	1.5000e-004	3.0000e-005	6.6781
Unrefrigerated Warehouse-No Rail	76320	31.9242	7.3000e-004	1.4000e-004	31.9836
Total		**323.1426**	**7.3600e-003**	**1.4000e-003**	**323.7443**

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	0.5785	1.5300e-003	0.1470	2.1000e-004		0.0181	0.0181		0.0181	0.0181	1.6039	0.0257	1.6296	3.0000e-005	1.4000e-004	1.6725
Unmitigated	0.5785	1.5300e-003	0.1470	2.1000e-004		0.0181	0.0181		0.0181	0.0181	1.6039	0.0257	1.6296	3.0000e-005	1.4000e-004	1.6725

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3906					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1191	1.3500e-003	0.1314	2.1000e-004		0.0180	0.0180		0.0180	0.0180	1.6039	0.0000	1.6039	0.0000	1.4000e-004	1.6461
Landscaping	5.2000e-004	1.8000e-004	0.0156	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0257	0.0257	3.0000e-005	0.0000	0.0264
Total	**0.5785**	**1.5300e-003**	**0.1470**	**2.1000e-004**		**0.0181**	**0.0181**		**0.0181**	**0.0181**	**1.6039**	**0.0257**	**1.6296**	**3.0000e-005**	**1.4000e-004**	**1.6725**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3906					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1191	1.3500e-003	0.1314	2.1000e-004		0.0180	0.0180		0.0180	0.0180	1.6039	0.0000	1.6039	0.0000	1.4000e-004	1.6461
Landscaping	5.2000e-004	1.8000e-004	0.0156	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0257	0.0257	3.0000e-005	0.0000	0.0264
Total	**0.5785**	**1.5300e-003**	**0.1470**	**2.1000e-004**		**0.0181**	**0.0181**		**0.0181**	**0.0181**	**1.6039**	**0.0257**	**1.6296**	**3.0000e-005**	**1.4000e-004**	**1.6725**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	111.7629	0.6321	0.0153	132.1321
Unmitigated	111.7629	0.6321	0.0153	132.1321

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	13.6438 / 0	78.6406	0.4463	0.0108	93.0218
Single Family Housing	0.130308 / 0.0821507	1.1329	4.2700e-003	1.0000e-004	1.2709
Unrefrigerated Warehouse-No Rail	5.55 / 0	31.9894	0.1815	4.4000e-003	37.8394
Total		**111.7629**	**0.6321**	**0.0153**	**132.1321**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	13.6438 / 0	78.6406	0.4463	0.0108	93.0218
Single Family Housing	0.130308 / 0.0821507	1.1329	4.2700e-003	1.0000e-004	1.2709
Unrefrigerated Warehouse-No Rail	5.55 / 0	31.9894	0.1815	4.4000e-003	37.8394
Total		**111.7629**	**0.6321**	**0.0153**	**132.1321**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.9297	1.1778	0.0000	49.3749
Unmitigated	19.9297	1.1778	0.0000	49.3749

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	73.16	14.8508	0.8777	0.0000	36.7923
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Unrefrigerated Warehouse-No Rail	22.56	4.5795	0.2706	0.0000	11.3455
Total		**19.9297**	**1.1778**	**0.0000**	**49.3749**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	73.16	14.8508	0.8777	0.0000	36.7923
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Unrefrigerated Warehouse-No Rail	22.56	4.5795	0.2706	0.0000	11.3455
Total		**19.9297**	**1.1778**	**0.0000**	**49.3749**

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