Greenhouse Gas Emissions Assessment South B Street Mixed-Use Project

San Mateo, California

Prepared For:

David J. Powers & Associates, Inc. 1736 Franklin Street, Suite 300 Oakland, CA 94612

Prepared By:



55 Hanover Lane, Suite A Chico, CA 95973

November 2023

CONTENTS

1.0	INTRO	INTRODUCTION									
	1.1	Projec	ct Location & Description	1							
2.0	GREE	NHOUSE	GAS EMISSIONS	2							
	2.1	Greenl	Greenhouse Gas Setting								
		2.1.1	Sources of Greenhouse Gas Emissions	3							
	2.2	Regula	atory Framework	2							
		2.2.1	State	∠							
		2.2.2	Local	6							
	2.3	Greenl	house Gas Emissions Impact Assessment	8							
		2.3.1	Thresholds of Significance								
		2.3.2	Methodology	10							
		2.3.3	Impact Analysis	13							
3.0	REFER	RENCES									
LIST (OF TABL	<u>.ES</u>									
Table	2-1. Gre	enhouse	e Gases	3							
Table	2-2. Cor	nstruction	n-Related Greenhouse Gas Emissions	10							
Table	2-3. Op	erational-	l-Related Greenhouse Gas Emissions	12							
Table	2-4. Gre	enhouse	e Gas Emissions per Service Population	12							

LIST OF ATTACHMENTS

Attachment A – CalEEMod Output File for Greenhouse Gas Emissions – Proposed Project

Attachment B - CalEEMod Output File for Greenhouse Gas Emissions - Existing Conditions

i

LIST OF ACRONYMS AND ABBREVIATIONS

Term	Description
AB	Assembly Bill
ABAG	Association of Bay Area Governments
APN	Assessor's Parcel Number
BAAQMD	Bay Area Air Quality Management District
CalEEMod	California Emissions Estimator Model
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEQA	California Environmental Quality Act

LIST OF ACRONYMS AND ABBREVIATIONS

CH₄ methane

City City of San Mateo CO₂ carbon dioxide

CO₂e carbon dioxide equivalent

County San Mateo County EO Executive Order GHG greenhouse gas

HVAC Heating, ventilation, and air conditioning systems IPCC Intergovernmental Panel on Climate Change MTCO₂e Metric Tons of Carbon Dioxide Equivalents

 N_2O nitrous oxide

PRC Public Resources Code

Project South B Street Mixed Use Project RTP Regional Transportation Plan

SB Senate Bill sf Square foot

SCS Sustainable Communities Strategy

TAC toxic air contaminant

USEPA U.S. Environmental Protection Agency

VMT vehicle miles traveled

1.0 INTRODUCTION

This report documents the results of a Greenhouse Gas (GHG) Emissions Assessment completed for the South B Street Mixed-Use Project (Project), which includes the demolition of two existing commercial building structures and the construction of a new four-story restaurant/office mixed use building in the City of San Mateo (City), California. This assessment is based on the methodology recommended by the City of San Mateo and the Bay Area Air Quality Management District (BAAQMD) for project-level review and was prepared with consideration of the emissions reduction actions proposed by the Project. The purpose of this assessment is to estimate Project-generated GHG emissions attributable to the Project and to determine the level of impact the Project would have on the environment.

1.1 Project Location & Description

The Project Site is located at 57 South B Street in the City of San Mateo on Assessor's Parcel Number (APN) 034-054-030. The Project Area is surrounded mainly by commercial and retail land uses. The Proposed Project proposes the demolition of two existing commercial building structures totaling 9,336 square feet (sf) and proposes the construction of a new four-story restaurant/office mixed use building totaling 41,190 sf. The building would include 5,302 sf of restaurant space and 35,888 sf of office space. The Proposed Project Site plans indicate that the first floor will primarily be used for restaurant purposes, while the other floors would be used for business office space. Additionally, the Project includes on and offsite improvements such as ground level and terrace landscaping, a corner plaza, and a public right of way improvements.

2.0 GREENHOUSE GAS EMISSIONS

2.1 Greenhouse Gas Setting

Certain gases in the earth's atmosphere, classified as GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. A portion of the radiation is absorbed by the earth's surface and a smaller portion of this radiation is reflected back toward space. This absorbed radiation is then emitted from the earth as low-frequency infrared radiation. The frequencies at which bodies emit radiation are proportional to temperature. Because the earth has a much lower temperature than the sun, it emits lower-frequency radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead trapped, resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth. Without the greenhouse effect, the earth would not be able to support life as we know it.

Prominent GHGs contributing to the greenhouse effect are CO₂, methane (CH₄), and N₂O. Fluorinated gases also make up a small fraction of the GHGs that contribute to climate change. Fluorinated gases include chlorofluorocarbons, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride; however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of these GHGs in excess of natural ambient concentrations are believed to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the earth's climate, known as global climate change or global warming. More specifically, experts agree that human activities, principally through emissions of greenhouse gases, have unequivocally caused global warming, with global surface temperature reaching 1.1°C above 1850–1900 in 2011–2020. (Intergovernmental Panel on Climate Change [IPCC] 2023).

Table 3-1 describes the primary GHGs attributed to global climate change, including their physical properties, primary sources, and contributions to the greenhouse effect.

Each GHG differs in its ability to absorb heat in the atmosphere based on the lifetime, or persistence, of the gas molecule in the atmosphere. CH_4 traps over 25 times more heat per molecule than CO_2 , and N_2O absorbs 298 times more heat per molecule than CO_2 . Often, estimates of GHG emissions are presented in carbon dioxide equivalents (CO_2e), which weigh each gas by its global warming potential. Expressing GHG emissions in CO_2e takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO_2e were being emitted.

Climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and TACs, which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about one day), GHGs have long atmospheric lifetimes (one to several thousand years). GHGs persist in the atmosphere for long enough time periods to be dispersed around the globe. Although the exact lifetime of any particular GHG molecule is dependent on multiple variables and cannot be pinpointed, it is understood that more CO₂ is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, or other forms. Despite the sequestration of CO₂, human-caused climate

change is already causing damaging effects, including weather and climate extremes in every region across the globe (IPCC 2023).

Table 2-1. Greenho	use Gases
Greenhouse Gas	Description
CO₂	Carbon dioxide is a colorless, odorless gas. CO_2 is emitted in a number of ways, both naturally and through human activities. The largest source of CO_2 emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, industrial facilities, and other sources. A number of specialized industrial production processes and product uses such as mineral production, metal production, and the use of petroleumbased products can also lead to CO_2 emissions. The atmospheric lifetime of CO_2 is variable because it is so readily exchanged in the atmosphere. ¹
CH₄	Methane is a colorless, odorless gas and is the major component of natural gas, about 87 percent by volume. It is also formed and released to the atmosphere by biological processes occurring in anaerobic environments. Methane is emitted from a variety of both human-related and natural sources. Human-related sources include fossil fuel production, animal husbandry (intestinal fermentation in livestock and manure management), rice cultivation, biomass burning, and waste management. These activities release significant quantities of CH ₄ to the atmosphere. Natural sources of CH ₄ include wetlands, gas hydrates, permafrost, termites, oceans, freshwater bodies, non-wetland soils, and other sources such as wildfires. The atmospheric lifetime of CH ₄ is about12 years. ²
N₂O	Nitrous oxide is a clear, colorless gas with a slightly sweet odor. Nitrous oxide is produced by both natural and human-related sources. Primary human-related sources of N_2O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuels, adipic acid production, and nitric acid production. N_2O is also produced naturally from a wide variety of biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N_2O is approximately 120 years. ³

Sources: ¹U.S. Environmental Protection Agency (USEPA) 2016a, ² USEPA 2016b, ³ USEPA 2016c

The quantity of GHGs that it takes to ultimately result in climate change is not precisely known; it is sufficient to say the quantity is enormous, and no single project alone would measurably contribute to a noticeable incremental change in the global average temperature or to global, local, or microclimates. From the standpoint of the California Environmental Quality Act (CEQA), GHG impacts on global climate change are inherently cumulative.

2.1.1 Sources of Greenhouse Gas Emissions

In 2022, the California Air Resources Board (CARB) released the 2022 edition of the California GHG inventory covering calendar year 2020 emissions. In 2020, California emitted 369.2 million gross metric tons of CO₂e (MTCO₂e) including from imported electricity. Combustion of fossil fuel in the transportation sector was the single largest source of California's GHG emissions in 2020, accounting for approximately 38 percent of total GHG emissions in the state. Continuing the downward trend from previous years, transportation emissions decreased 27 million metric tons of CO₂e in 2020, though the intensity of this decrease was most likely from light duty vehicles after shelter-in-place orders were enacted in response to the COVID-19 pandemic. Emissions from the electricity sector account for 16 percent of the inventory and have remained

at a similar level as in 2019 despite a 44 percent decrease in in-state hydropower generation (due to below average precipitation levels), which was more than compensated for by a 10 percent growth in in-state solar generation and cleaner imported electricity incentivized by California's clean energy policies. California's industrial sector accounts for the second largest source of the state's GHG emissions in 2020, accounting for 23 percent (CARB 2022).

2.2 Regulatory Framework

2.2.1 State

2.2.1.1 Executive Orders S-3-05 and B-30-15

Executive Order (EO) S-3-05, signed by Governor Arnold Schwarzenegger in 2005, proclaims that California is vulnerable to the impacts of climate change. It declares that increased temperatures could reduce the Sierra Nevada snowpack, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To combat those concerns, the EO established total GHG emission targets for the State. Specifically, emissions are to be reduced to the 2000 level by 2010, the 1990 level by 2020, and to 80 percent below the 1990 level by 2050.

On April 20, 2015, Governor Brown signed EO B-30-15 to establish a California GHG reduction target of 40 percent below 1990 levels by 2030. The Governor's executive order aligns California's GHG reduction targets with those of leading international governments such as the European Union, which adopted the same target in October 2014. California's new emission reduction target of 40 percent below 1990 levels by 2030 will make it possible to reach the ultimate goal of reducing emissions 80 percent below 1990 levels by 2050. This is in line with the scientifically established levels needed in the U.S. to limit global warming below 2 degrees Celsius, the warming threshold at which major climate disruptions are projected, such as super droughts and rising sea levels.

2.2.1.2 Assembly Bill 32 Climate Change Scoping Plan and Updates

In 2006, the California legislature passed Assembly Bill (AB) 32 (Health and Safety Code § 38500 et seq., or AB 32), also known as the Global Warming Solutions Act. AB 32 required CARB to design and implement feasible and cost-effective emission limits, regulations, and other measures, such that statewide GHG emissions are reduced to 1990 levels by 2020 (representing a 25 percent reduction in emissions). Pursuant to AB 32, CARB adopted a Scoping Plan in December 2008, which outlined measures to meet the 2020 GHG reduction goals. California exceeded the target of reducing GHG emissions to 1990 levels by the year 2017.

The Scoping Plan is required by AB 32 to be updated at least every five years. The latest update, the 2022 Scoping Plan Update, outlines strategies and actions to reduce greenhouse gas emissions in California. The plan focuses on achieving the state's goal of reaching carbon neutrality by 2045 and reducing greenhouse gas emissions to 40% below 1990 levels by 2030. The plan includes a range of strategies across various sectors, including transportation, industry, energy, and agriculture. Some of the key strategies include transitioning to zero-emission vehicles, expanding renewable energy sources, promoting sustainable land use practices, implementing a low-carbon fuel standard, and reducing emissions from buildings.

Additionally, the plan addresses equity and environmental justice by prioritizing investments in communities most impacted by pollution and climate change. The plan also aims to promote economic growth and job creation through the transition to a low-carbon economy.

2.2.1.3 Senate Bill 32 and Assembly Bill 197 of 2016

In August 2016, Governor Brown signed SB 32 and AB 197, which serve to extend California's GHG reduction programs beyond 2020. SB 32 amended the Health and Safety Code to include §38566, which contains language to authorize CARB to achieve a statewide GHG emission reduction of at least 40 percent below 1990 levels by no later than December 31, 2030. SB 32 codified the targets established by EO B-30-15 for 2030, which set the next interim step in the State's continuing efforts to pursue the long-term target expressed in EOs S-3-05 and B-30-15 of 80 percent below 1990 emissions levels by 2050.

2.2.1.4 Senate Bill 100 of 2018

In 2018, SB 100 was signed by Governor Brown, codifying a goal of 60 percent renewable procurement by 2030 and 100 percent by 2045 Renewables Portfolio Standard.

2.2.1.5 2022 Building Energy Efficiency Standards for Residential and Nonresidential Buildings

The Building and Efficiency Standards (Energy Standards) were first adopted and put into effect in 1978 and have been updated periodically in the intervening years. These standards are a unique California asset that have placed the State on the forefront of energy efficiency, sustainability, energy independence and climate change issues. The 2022 California Building Codes include provisions related to energy efficiency to reduce energy consumption and greenhouse gas emissions from buildings. Some of the key energy efficiency components of the codes are:

- 1. Energy Performance Requirements: The codes specify minimum energy performance standards for the building envelope, lighting, heating and cooling systems, and other components.
- 2. Lighting Efficiency: The codes require that lighting systems meet minimum efficiency standards, such as the use of energy-efficient light bulbs and fixtures.
- 3. Heating, ventilation, and air conditioning (HVAC) Systems: The codes establish requirements for HVAC systems, including the use of high-efficiency equipment, duct sealing, and controls.
- 4. Building Envelope: The codes include provisions for insulation, air sealing, glazing, and other building envelope components to reduce energy loss and improve indoor comfort.
- 5. Renewable Energy: The codes encourage the use of renewable energy systems, such as photovoltaic panels and wind turbines, to reduce dependence on non-renewable energy sources.
- 6. Commissioning: The codes require the commissioning of building energy systems to ensure that they are installed and operate correctly and efficiently.

Overall, the energy efficiency provisions of the 2022 California Building Codes aim to reduce the energy consumption of buildings, lower energy costs for building owners and occupants, and reduce the environmental impact of the built environment. The 2022 Building Energy Efficiency Standards improve upon the 2019 Energy Standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The exact amount by which the 2022 Building Codes are more efficient compared to the 2019 Building Codes would depend on the specific provisions that have been updated and the specific building being considered. However, in general, the 2022 Building Codes have been updated to include increased requirements for energy efficiency, such as higher insulation and air sealing standards, which are intended to result in more efficient buildings. The 2022 standards are a major step toward meeting Zero Net Energy.

2.2.2 Local

2.2.2.1 Bay Area Air Quality Management District

To provide guidance to local lead agencies on determining significance for GHG emissions in CEQA documents, BAAQMD CEQA Guidelines include guidance on assessing GHGs and climate change impacts as required under CEQA Section 15183.5(b). In April 2023, the BAAQMD 20223 CEQA Guidelines were adopted. This guidance document presents a project-level operational threshold of significance for GHG emissions based on compliance with a Qualified GHG Reduction Strategy or adherence to a suite of BAAQMD performance standards for land uses projects directly related to building design, transportation, and consistency with the CEQA Guidelines Section 15183.5(b). The guidelines also promote the development sustainable land use projects that offer climate reduction measures and policies for consideration. These policies help ensure smart growth, transit-oriented, and sustainable practices for land use projects and plans.

2.2.2.2 Association of Bay Area Governments Final Plan Bay Area 2050

The Association of Bay Area Governments (ABAG) Plan Bay Area 2050 is the Regional Transportation Plan (RTP) and Sustainable Communities Strategy (SCS) for the San Francisco Bay Area. Plan Bay Area 2050 estimates a 22 percent reduction of automotive GHG emissions by 2035 compared to 2005. The region's applicable GHG per capita emissions target, mandated by CARB, is a 19 percent reduction for 2035, compared to 2005. Plan Bay Area 2050 establishes means of establishing GHG reduction goals through transportation improvements, including a clean vehicle feebate and targeted transportation alternatives. According to ABAG, the San Francisco Bay Area will exceed the mandated GHG reduction target of 19 percent for 2035 by implementing Plan Bay Area (ABAG 2021).

2.2.2.3 BAAQMD 2017 Clean Air Plan

The 2017 Clean Air Plan provides a regional strategy with the goal of protecting public health and protecting the climate. The 2017 Clean Air Plan is consistent with the California GHG reduction goals. To protect the climate, the 2017 Clean Air Plan defines a vision for transitioning the region to a "post-carbon economy" without fossil fuel combustion, as needed to achieve ambitious greenhouse gas reduction targets for 2030

and 2050 and provides a regional climate protection strategy that will put the Bay Area on a pathway to achieve those GHG reduction targets (BAAQMD 2017).

The 2017 Clean Air Plan includes numerous control measures designed to reduce GHG emissions from stationary and transportation sources. The plan lays the framework for reducing Bay Area GHG emissions 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050 (BAAQMD 2017).

2.2.2.4 The City of San Mateo Climate Action Plan

The City adopted an updated community-wide Climate Action Plan (CAP) in April 2020, which updates and consolidates the various City's GHG reduction efforts based on the vision of San Mateo residents, businesses, and local government. The CAP provides the framework for San Mateo to reduce its community wide GHG emissions in a manner consistent with state reduction targets and goals for 2030 and 2050. The CAP was prepared consistent with CEQA Guidelines for Plans for the Reduction of Greenhouse Gas Emissions (California Code of Regulations [CCR] 15183.5). This facilitates the capacity of the 2020 CAP to facilitate and potentially streamline the environmental assessment of GHGs associated with future developmental initiatives within the City. The 2020 CAP is a direct revision of the 2015 CAP. The 2020 CAP evaluates San Mateo's advancements thus far in the City's GHG targets and provides new insights to achieve more substantial and long-term reductions of GHGs.

A CAP is a comprehensive strategy for a community to reduce emissions of GHGs, which, according to scientific consensus, are primarily responsible for causing climate change. The CAP identifies a strategy, reduction measures, and implementation actions the City will use to achieve targets consistent with state recommendations of 4.3 MTCO₂e per person by 2030 and 1.2 MTCO₂e per person by 2050. The City CAP includes five key pieces:

- 1. An inventory of the annual GHG emissions attributable to San Mateo based on the types of activities occurring within the community and guidance from various protocols and agencies.
- 2. A forecast of what GHG emissions are likely to look like in 2030 and 2050 based on expected population and economic growth as predicted in the City's General Plan; with the consideration of major CO₂e emission reduction policies.
- 3. A reduction target, which identifies goals for reducing GHG emissions by 2030 and 2050.
- 4. Reduction strategies, which describe the actions the community intends to take to achieve the reduction target. Each strategy identifies the amount of GHGs that will be reduced once the strategy is implemented. The CAP also estimates the benefits of existing programs.
- 5. An implementation and monitoring program to track progress toward the reduction target and the status of the reduction strategies. A CAP consistency checklist for future development projects is included in the implementation program.

As part of the CAP, the City developed a consistency checklist for land use projects. The CAP checklist is a streamlined tool that identifies mandatory GHG reduction strategies and provides an opportunity for project applicants to demonstrate project consistency with measures and actions described in the CAP. The

checklist is also an opportunity to identify additional Project characteristics that support the GHG reduction targets and programs in the CAP. If a project does not comply with the applicable mandatory GHG reduction measures, mitigation measures must be implemented to require compliance.

2.3 Greenhouse Gas Emissions Impact Assessment

2.3.1 Thresholds of Significance

The impact analysis provided below is based on the following CEQA Guidelines Appendix G thresholds of significance. The Project would result in a significant impact to GHG emissions if it would:

- 1) Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.
- 2) Conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases or

The Appendix G thresholds for GHG emissions do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA. With respect to GHG emissions, the CEQA Guidelines Section 15064.4(a) states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions resulting from a project. The CEQA Guidelines note that an agency has the discretion to either quantify a project's GHG emissions or rely on a "qualitative analysis or other performance-based standards." (14 CCR 15064.4(b)). A lead agency may use a "model or methodology" to estimate GHG emissions and has the discretion to select the model or methodology it considers "most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change." (14 CCR 15064.4(c)). Section 15064.4(b) provides that the lead agency should consider the following when determining the significance of impacts from GHG emissions on the environment:

- 1. The extent a project may increase or reduce GHG emissions as compared to the existing environmental setting.
- 2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- 3. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4(b)).

In addition, Section 15064.7(c) of the CEQA Guidelines specifies that "[w]hen adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence" (14 CCR 15064.7(c)). The CEQA Guidelines also clarify

that the effects of GHG emissions are cumulative and should be analyzed in the context of CEQA's requirements for cumulative impact analysis (see CEQA Guidelines Section 15130). As a note, the CEQA Guidelines were amended in response to Senate Bill 97. In particular, the CEQA Guidelines were amended to specify that compliance with a GHG emissions reduction plan renders a cumulative impact insignificant.

Per CEQA Guidelines Section 15064(h)(3), a project's incremental contribution to a cumulative impact can be found not cumulatively considerable if the project would comply with an approved plan or mitigation program that provides specific requirements that would avoid or substantially lessen the cumulative problem within the geographic area of the project. To qualify, such plans or programs must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency. Examples of such programs include a "water quality control plan, air quality attainment or maintenance plan, integrated waste management plan, habitat conservation plan, natural community conservation plans [and] plans or regulations for the reduction of greenhouse gas emissions." Put another way, CEQA Guidelines Section 15064(h)(3) allows a lead agency to make a finding of less than significant for GHG emissions if a project complies with adopted programs, plans, policies and/or other regulatory strategies to reduce GHG emissions.

The local air quality agency regulating the San Francisco Bay Area Air Basin is the BAAQMD, the regional air pollution control officer for the basin. As previously stated, BAAQMD CEQA Guidelines include guidance on assessing GHGs and climate change impacts as required under CEQA Section 15183.5(b) and establish thresholds of significance for impacts related to GHG emissions. The City has determined, in its discretion, that the BAAQMD recommended GHG significance thresholds are based on substantial evidence to attribute a fair share of GHG reductions necessary to reach statewide reduction goals to new land use development projects in the BAAQMD's jurisdiction that are evaluated pursuant to CEQA. Therefore, the City uses the BAAQMD CEQA Guidelines to determine the level of impact from the project contributions of GHG emissions.

As previously described, BAAQMD's 2022 CEQA Guidelines presents a project-level operational threshold of significance for GHG emissions based on compliance with a Qualified GHG Reduction Strategy or adherence to a suite of BAAQMD performance standards for land uses projects directly related to building design, transportation and consistency with the CEQA Guidelines Section 15183.5(b). The City CAP is a Qualified GHG Reduction Strategy. The 2020 City CAP is the most recent update after the 2015 CAP and is written to align with the goals of SB 32. The CAP addresses estimate emissions beyond 2020, as informed by the post-2020 GHG reduction targets of SB 32 and EO S-3-05. Specifically, the City set emission reduction goals of 15 percent below 2005 emissions levels by 2020, 4.3 MTCO₂e per person by 2030, and 1.2 MTCO₂e per person by 2050. Therefore, Project compliance with the CAP adequately establishes Project compliance with statewide GHG reduction goals for the year 2030 associated with SB 32, and with statewide GHG reduction goals for the years beyond 2030.

Additionally, the Project is compared to ABAG's Plan Bay Area, the RTP/SCS for the San Francisco Bay Area, which establishes an overall GHG target for the Project region consistent with the GHG reduction goals of SB 32. The Project is also compared to the BAAQMD 2017 Clean Air Plan, which defines a vision for transitioning the region to a post-carbon economy needed to achieve ambitious GHG reduction targets for

2030 and 2050 and provides a regional climate protection strategy that will put the Bay Area on a pathway to achieve those GHG emissions reduction targets.

2.3.2 Methodology

GHG emissions-related impacts were assessed in accordance with methodologies recommended by the BAAQMD and the City of San Mateo. Where GHG emission quantification was required, emissions were modeled using the California Air Pollution Control Officers Association (CAPCOA) California Emissions Estimator Model (CalEEMod), version 2022.1.1.14 (CAPCOA 2022). CalEEMod is a statewide land use emissions computer model designed to quantify potential GHG emissions associated with both construction and operations from a variety of land use projects. Project construction generated GHG emissions were calculated using CalEEMod model defaults for San Mateo County (County). Operational GHG emissions were based on CalEEMod model defaults for the County, the site and building square footage identified in the Project Site plans, and design features outlined by the Project's development plans. For the purposes of this analysis, projected operational emissions associated with proposed operations are compared to the existing baseline, which includes two existing commercial building structures totaling 9,336 sf.

2.3.3 Generation of GHG Emissions

2.3.3.1 Construction of Proposed Project

Construction-related activities that would generate GHG emissions include worker commute trips, haul trucks carrying supplies and materials to and from the Project Site, and off-road construction equipment (e.g., dozers, loaders, excavators). Table 2-2 illustrates the specific construction generated GHG emissions that would result from construction of the Project. Once construction is complete, the generation of these GHG emissions would cease.

Table 2-2. Construction-Related Greenhouse Gas E	missions
Emissions Source	CO₂e (Metric Tons/ Year)
Construction Calander Year 1	156
Construction Calander Year 2	293
Total Construction Emissions	449

Source: CalEEMod version 2022.1.1.14. Refer to Attachment A for Model Data Outputs.

As shown in Table 2-2, Project construction would result in the generation of approximately 449 MTCO₂e over the course of construction. Once construction is complete, the generation of these GHG emissions would cease. As previously stated, there are no adopted thresholds of significance for construction related GHG emissions. GHG emissions generated by the construction sector have been declining in recent years. For instance, construction equipment engine efficiency has continued to improve year after year. The first federal standards (Tier 1) for new off-road diesel engines were adopted in 1994 for engines over 50 horsepower and were phased in from 1996 to 2000. In 1996, a Statement of Principles pertaining to off-

road diesel engines was signed between the USEPA, CARB, and engine makers (including Caterpillar, Cummins, Deere, Detroit Diesel, Deutz, Isuzu, Komatsu, Kubota, Mitsubishi, Navistar, New Holland, Wis-Con, and Yanmar). On August 27, 1998, the USEPA signed the final rule reflecting the provisions of the Statement of Principles. The 1998 regulation introduced Tier 1 standards for equipment under 50 horsepower and increasingly more stringent Tier 2 and Tier 3 standards for all equipment with phase-in schedules from 2000 to 2008. As a result, all off-road, diesel-fueled construction equipment manufactured in 2006 or later has been manufactured to Tier 3 standards. Tier 3 engine standards reduce precursor and subset GHG emissions such as nitrogen oxide by as much as 60 percent. On May 11, 2004, the USEPA signed the final rule introducing Tier 4 emission standards, which were phased in over the period of 2008-2015. The Tier 4 standards require that emissions of nitrogen oxide be further reduced by about 90 percent. All off-road, diesel-fueled construction equipment manufactured in 2015 or later will be manufactured to Tier 4 standards.

2.3.3.2 Operation of Proposed Project

Operation of the Project would result in GHG emissions. Projected GHG emissions associated with proposed operations are quantified and compared to the existing baseline, which, as previously stated, includes two existing commercial building structures totaling 9,336 sf. Table 2-3 summarizes all the direct and indirect annual GHG emissions associated with the Project.

-3. Operational-Related Greenhouse Gas	Emissions
Emission Source	CO₂e (Metric Tons/ Year)
Proposed Project (Mixed-	Use Restaurant/Office Space)
Mobile	360
Area	1
Energy	177
Water	16
Waste	30
Refrigerants	1
Total	585
Existing Onsite La	nd Uses (Commercial)
Mobile	103
Area	0
Energy	11
Water	1
Waste	3
Refrigerants	0
Total	118
Dif	ference
Mobile	+257
Area	+1
Energy	+166
Water	+15
Waste	+27
Refrigerants	+1
Total	+467

Source: CalEEMod version 2022.1.1.14. Refer to Attachments A and B for Model Data Outputs.

Notes: Emission projections predominately based on CalEEMod model defaults for San Mateo County. Several GHG-reducing Project components related to building design features and site location efficiency are applied to the Proposed Project emission projections.

As shown in Table 2-3, the Project would generate 585 MTCO₂e annually. The increase in operational GHG emissions over the existing baseline would be 467 MTCO₂e per year as a result of the Project.

2.3.4 Impact Analysis

2.3.4.1 Generation of Greenhouse Gas Emissions Resulting in Conflicts with any Applicable Plan, Policy, or Regulation of an Agency Adopted for the Purpose of Reducing the Emissions of Greenhouse Gases

City of San Mateo Climate Action Plan

The City CAP (2020) is the most recent update to the prior 2015 City CAP. The CAP is a strategic planning document that identifies sources of GHG emissions within the City's boundaries, presents current and future emissions estimates, identifies a GHG reduction target for future years, and presents strategic programs, policies, and projects to reduce emissions from the energy, transportation, land use, water use, and waste sectors. The CAP includes GHG reduction measures in the form of GHG reduction programs, policies, projects, and strategies. The BAAQMD Qualified Greenhouse Gas Emissions Reduction Program criteria, in conjunction with the BAAQMD's CEQA Guidelines, guided the development of the emissions reduction program developed by the City. All three guidelines comply with the requirements of statewide GHG-reduction targets and achieve the goals of the Scoping Plan.

The 2020 City CAP is written to align with the goals of SB 32, which codified the statewide GHG emission reduction goal established by EO B-30-15 of at least 40 percent below 1990 levels no later than December 31, 2030. Specifically, the City has set a per capita emission rate of 4.3 MTCO₂e per person by 2030. Therefore, to show consistency with the CAP the Project is compared to the threshold of 4.3 metric tons of CO₂e per Project service population (Project Population) per year by 2030. This approach is used to identify the emissions level for which a project would not be expected to substantially conflict with existing California legislation adopted to reduce statewide GHG emissions. An advantage of the service population approach is its application to both residential land uses and employment-oriented land uses. The per capita or per service population metrics represent the rates of emissions needed to achieve a fair share of the state's emission reduction mandate. The use of "fair share" in this instance indicates the GHG efficiency level that, if applied statewide or to a defined geographic area, would meet the 2030 emissions targets. The intent of SB 32 is to accommodate population and economic growth in California but to do so in a way that achieves a lower rate of GHG emissions, as evidenced in the statement from CARB's Scoping Plan. If projects can achieve targeted rates of emissions per the sum of residents plus jobs (i.e., service population), California can accommodate expected population growth and achieve economic development objectives, while also abiding by SB 32's emissions target.

The Project is proposing the construction of a restaurant/ office mixed use building. With no residential land uses on the Project Site the entire service population (Project Population) would be employees. Per default occupancy counts provided by the U.S. Green Building Council (2021), the Project is anticipated to accommodate a total of 156 employees. Therefore, the Project service population is 156. The U.S. Green Building Council's default occupancy counts provide standard estimates of how many employees are expected to staff a business based on the total amount of building square footage. As shown in Table 3-4, dividing the GHG emissions by the Project service population yields a metric ton per service population ratio of 3.75.

Table 2-4. Greenhouse Gas Emissions per Service Population									
Project Emissions	Service Population (Residents + Employees)	Metric Tons of CO2e/SP/Year	CAP Threshold	Exceed Threshold?					
585	156	3.75	4.3	No					

Source: CalEEMod version 2022.1.1.14. Refer to Attachment A for Model Data Outputs.

As shown in Table 2-4, the Proposed Project would not surpass the CAP's efficiency-based significance thresholds. As such, the Project would be consistent with the City's CAP.

BAAQMD Plan 2017 Clean Air Plan

The 2017 Clean Air Plan (BAAQMD 2017) provides a regional strategy to protect public health and the climate. The 2017 Clean Air Plan defines a vision for transitioning the region to a post-carbon economy needed to achieve ambitious GHG reduction targets for 2030 and 2050 and provides a regional climate protection strategy that will put the Bay Area on a pathway to achieve those GHG emissions reduction targets. The 2017 Clean Air Plan includes a wide range of control measures designed to reduce emissions of CH₄ and other 'super GHGs' in the near term, and to decrease emissions of CO₂ by reducing fossil-fuel combustion.

The 2017 Clean Air Plan includes a diverse range of control measures designed to decrease GHG emissions. Consistency of the Proposed Project with 2017 Clean Air Plan is demonstrated by assessing whether the Project supports all of the Project-applicable Clean Air Plan control measures for GHG emissions. The GHG-related control strategies of the Clean Air Plan include *Mobile Source Measures*, *Transportation Control Measures* and *Energy and Climate Measures*.

Note, the Land Use and Local Impact Measures of the 2017 Clean Air Plan address the exposure of sensitive receptors to toxic air contaminants and is thereby not applicable to this impact discussion of GHG emissions. Additionally, the Stationary Source Measures in the Clean Air Plan such as those implemented to control emissions from metal melting facilities, cement kilns, refineries, and glass furnaces are not applicable to the Proposed Project.

Transportation and Mobile Source Control Measures

The BAAQMD identifies transportation and mobile source control measures as part of the Clean Air Plan to reduce emissions from these sources. The transportation control measures are designed to reduce emissions from motor vehicles by reducing vehicle trips and vehicle miles traveled (VMT) in addition to vehicle idling and traffic congestion. The Proposed Project is consistent with the Clean Air Plan's transportation and mobile source control measures because it is a redevelopment of an existing urban environment, and it is located in direct proximity to the Downtown San Mateo Caltrain Station. The Project is considered "infill development" as it proposes to redevelop a built-out property and enhance the physical design of the urban environment. Under Public Resources Code (PRC) section 21061.3, an "infill site" is

defined as a site that "has been previously developed for qualified urban uses." In turn, a "qualified urban use" is defined, pursuant to PRC section 21072, as "a residential, commercial, or public institutional, transit or transportation passenger facility, or retail use, or any combination of those uses." Additionally, the Project Site is located in an "urbanized area," which is defined under PRC section 21071 as "an incorporated city" that meets the criteria of having a population of at least 100,000 persons.

According to the USEPA, infill development can reduce development pressure on outlying areas and when it occurs near existing transit infrastructure, employment centers, and other destinations, it can help reduce the amount that people drive, thus improving air quality and reducing GHG emissions (USEPA 2014). Furthermore, the Caltrain Downtown San Mateo Station is less than 100 feet from the Project Site. The Proposed Project's proximity to the Caltrain station may also help to reduce GHG emissions. According to a report by the Bay Area Council Economic Institute (2022), in areas of high job density there are positive influences on the utilization of transit ridership. This indicates that the greater availability of jobs available around transit stations encourages individuals to opt for those modes of commuting, rather than driving. Even further, the report notes that mixed-use developments oriented around public transit have been found to reduce household GHG emissions by 2.5 to 3.7 tons per year and lower annual household rates of driving 20-40 percent for those living, working, and/or shopping within transit station areas. As the Proposed Project would provide accessibility to restaurants, office businesses, and employment opportunities in close proximity to the Downtown San Mateo Caltrain Station, this may have a positive impact on the reduction of GHG emissions. The Proposed Project's plans for introducing an improved place of commerce and employment are located in such a way so that access for employees and shoppers may be achieved via walking, biking, or Caltrain, which will further reduce VMT.

These aspects of the Project would result in the generation of a reduced amount of GHG emissions. As a result, the Proposed Project would not conflict with the identified transportation and mobile source control measures of the Clean Air Plan.

Land Use and Local Impact Measures

The BAAQMD Clean Air Plan includes Land Use and Local Impact Measures to ensure that planned growth is focused on a way that protects the people and environment from exposure of emissions associated with stationary and mobile sources and to promote mixed-use, compact development to reduce motor vehicle travel. The Land Use and Local Impact Measures identified by the BAAQMD are not specifically applicable to the Proposed Project as they relate to actions the BAAQMD will take to reduce impacts from goods movement and health risks in affected communities at the plan level. The measures also detail new regulatory actions the BAAQMD will undertake related to land use, including updates to the CEQA Air Quality Guidelines, and indirect source review.

However, the Proposed Project would be a redevelopment infill Project in support of these measures. For instance, the Project can be identified for its "location efficiency." Location efficiency describes the location of the Project relative to the type of urban landscape its proposed to fit within, such as an "urban area," "compact infill," or "suburban center." The Project Area represents an urban/compact infill location within an area of the City developed with residential and commercial uses. The Project Area is within an active urban center surrounded by many existing retail, commercial, and restaurant developments. The Project

would locate additional restaurant and business office land uses in close proximity to the Caltrain Downtown San Mateo station. Therefore, the Project would provide community members with greater work opportunities and commercial service options in close proximity to transit and in an urban developed area. Additionally, the Project would locate potential employment opportunities for residents already living in the vicinity. The location efficiency of the Project Area would result in synergistic benefits that would reduce vehicle trips and VMT compared to the statewide average and would result in corresponding reduction of transportation related GHG emissions.

Energy and Climate Control Measures

The Clean Air Plan also includes Energy and Climate Control Measures, which are designed to reduce ambient concentrations of emissions of CO₂. Implementation of these measures is intended to promote energy conservation and efficiency in buildings throughout the community, promote renewable forms of energy production, reduce the "urban heat island" effect by increasing reflectivity of roofs and parking lots, promote the planting of (low volatile organic compound-emitting) trees to reduce biogenic emissions, lower air temperatures, provide shade, and absorb air pollutants. The measures include voluntary approaches to reduce the heat-island effect by increasing shade in urban and suburban areas through the planting of trees. The Proposed Project would increase landscaping throughout the Project Area which would help reduce the urban heat-island effect. Additionally, the Project would be constructed consistent with the standards of the 2022 Building and Efficiency Standards, which include provisions related to energy efficiency to reduce energy consumption and GHG emissions from buildings.

The Project is consistent with the 2017 Clean Air Plan. The Proposed Project would conform to the Project-applicable control measures in the Clean Air Plan and would not disrupt or hinder the implementation of any other control measures.

ABAG Final Plan Bay Area 2050

ABAG's Plan Bay Area is the RTP/SCS for the San Francisco Bay Area. Plan Bay Area establishes GHG emissions goals for automobiles and light-duty trucks, a potent source of GHG emissions attributable to land use development. As previously described, ABAG was tasked by CARB to achieve a 19 percent reduction of passenger car and light truck automotive GHG emissions by 2035 compared to 2005. Plan Bay Area 2050 establishes an overall mechanism to achieve these GHG targets for the Project region consistent with the target date of SB 32. According to ABAG, the San Francisco Bay Area will exceed the mandated GHG reduction target of 19 percent for 2035 by implementing Plan Bay Area (ABAG 2020).

The RTP/SCS contains thousands of individual transportation projects, including highway improvements, railway electrification, bicycle lanes, new transit hubs, and replacement bridges. These future investments seek to reduce traffic bottlenecks, improve the efficiency of the region's network, and expand mobility choices. The RTP/SCS is an important planning document for the region, allowing project sponsors to qualify for federal funding. In addition, the RTP/SCS is supported by a combination of transportation and land use strategies that help the region achieve state GHG emission reduction goals and federal Clean Air Act requirements, preserve open space areas, improve public health and roadway safety, support the vital goods movement industry, and use resources more efficiently.

Plan Bay Area 2050's core strategy is "focused growth" in existing communities along the existing transportation network. This strategy allows the best efficiency in achieving key regional economic, environmental, and equity goals: it builds upon existing community characteristics, efficiently leverages existing infrastructure, and mitigates impacts on areas with less development. Plan Bay Area 2050's Growth Geographies identify a mix of locally identified Priority Development Areas, areas near high quality transit and areas of high opportunity as communities poised to accommodate additional growth. Priority Development Areas are defined as areas generally near existing job centers or frequent transit that are locally identified (i.e., identified by towns, cities, or counties) for housing and job growth. Meanwhile, Plan Bay Area 2050 identifies areas outside of the existing urban footprint or in areas that are at a very high risk of wildfire as areas where additional construction should be deprioritized.

Plan Bay Area 2050 considers development locations within close proximity to high-quality transit, such as the Proposed Project, and locations that are able to accommodate additional growth as ideal places to encourage urban growth. Furthermore, the Project is proposed within a built environment (infill development). The Project will increase employment density and land use diversity in the vicinity over current conditions. Increased employment density, measured in terms of persons, jobs, or building square footage, as well as increased land use diversity, potentially reduces emissions associated with transportation as it reduces the distance people travel for work or services and provides a foundation for the implementation of other strategies such as enhanced transit services. The Project would increase the Project Area density from two existing single-story commercial buildings to a multiple story mixed-use restaurant and office building space.

For these reasons, the Project is consistent with Plan Bay Area. Based on the Project's proximity to public transportation, availability of bike storage space and redevelopment of existing areas, it can be assumed that regional mobile emissions will decrease in line with the goals of Plan Bay Area with implementation of the Proposed Project. Implementing ABAG's RTP/SCS will greatly reduce the regional GHG emissions from transportation, and the Proposed Project will not obstruct the achievement of Plan Bay Area's emission reduction targets.

3.0 REFERENCES

ABAG (Association of Bay Area Governments). 2023. Priority Development Areas (Plan Bay Area 2050) GIS Data Catalog. https://opendata.mtc.ca.gov/datasets/MTC::priority-development-areas-plan-bay-area-2050/about.
2021. Final Plan Bay Area 2050.
BAAQMD (Bay Area Air Quality Management District). 2022. Bay Area Air Quality Management District CEQA Air Quality Guidelines.
2017. Bay Area Final 2017 Clean Air Plan.
Bay Area Council Economic Institute. 2022. Optimizing Land Uses at Transit Stations. http://www.bayareaeconomy.org/files/pdf/OptimizingLandUsesNearTransitStations1.pdf
CAPCOA (California Air Pollution Control Officers Association). 2022. California Emissions Estimator Model (CalEEMod), version 2022.1.1.14.
CARB (California Air Resources Board). 2022. California Greenhouse Gas Emission Inventory 2022 Edition. https://ww2.arb.ca.gov/ghg-inventory-data.
2008. Climate Change Scoping Plan Appendices (Appendix F).
California Department of Finance. 2023. E-5 Population and Housing Estimates for Cities, Counties, and the State, 2021-2023 with 2020 Census Benchmark.
IPCC (Intergovernmental Panel on Climate Change). 2023. Climate Change 2023 Synthesis Report – Summary for Policymakers. https://www.ipcc.ch/report/ar6/syr/downloads/report/IPCC_AR6_SYR_SPM.pdf
USEPA (U.S. Environmental Protection Agency). 2016a. Climate Change – Greenhouse Gas Emissions: Carbon Dioxide. http://www.epa.gov/climatechange/emissions/co2.html.
2016b. Methane. https://www3.epa.gov/climatechange/ghgemissions/gases/ch4.html.
2016c. Nitrous Oxide. https://www3.epa.gov/climatechange/ghgemissions/gases/n2o.html.
2014. Smart Growth and Economic Success: Investing in Infill Development. https://www.epa.gov/sites/default/files/2014-06/documents/developer-infill-paper-508b.pdf.
U.S. Green Building Council. 2021. LEED v4 Appendix 2. Default occupancy counts. https://www.usgbc.org/credits/new-construction-existing-buildings-commercial-interiors-core-and-shell-schools-new-constr-3?view=language

LIST OF ATTACHMENTS

Attachment A – CalEEMod Output File for Greenhouse Gas Emissions – Proposed Project

Attachment B – CalEEMod Output File for Greenhouse Gas Emissions – Existing Conditions

ATTACHMENT A

CalEEMod Output Files – Greenhouse Gas Emissions – Proposed Project

South B Street Mixed Use- PROJECT updated Detailed Report

Table of Contents

- 1. Basic Project Information
 - 1.1. Basic Project Information
 - 1.2. Land Use Types
 - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
 - 2.1. Construction Emissions Compared Against Thresholds
 - 2.2. Construction Emissions by Year, Unmitigated
 - 2.3. Construction Emissions by Year, Mitigated
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
 - 2.6. Operations Emissions by Sector, Mitigated
- 3. Construction Emissions Details
 - 3.1. Demolition (2025) Unmitigated
 - 3.2. Demolition (2025) Mitigated

- 3.3. Site Preparation (2025) Unmitigated
- 3.4. Site Preparation (2025) Mitigated
- 3.5. Grading (2025) Unmitigated
- 3.6. Grading (2025) Mitigated
- 3.7. Building Construction (2025) Unmitigated
- 3.8. Building Construction (2025) Mitigated
- 3.9. Building Construction (2026) Unmitigated
- 3.10. Building Construction (2026) Mitigated
- 3.11. Paving (2025) Unmitigated
- 3.12. Paving (2025) Mitigated
- 3.13. Paving (2026) Unmitigated
- 3.14. Paving (2026) Mitigated
- 3.15. Architectural Coating (2025) Unmitigated
- 3.16. Architectural Coating (2025) Mitigated
- 3.17. Architectural Coating (2026) Unmitigated
- 3.18. Architectural Coating (2026) Mitigated
- 4. Operations Emissions Details

- 4.1. Mobile Emissions by Land Use
 - 4.1.1. Unmitigated
 - 4.1.2. Mitigated
- 4.2. Energy
 - 4.2.1. Electricity Emissions By Land Use Unmitigated
 - 4.2.2. Electricity Emissions By Land Use Mitigated
 - 4.2.3. Natural Gas Emissions By Land Use Unmitigated
 - 4.2.4. Natural Gas Emissions By Land Use Mitigated
- 4.3. Area Emissions by Source
 - 4.3.1. Unmitigated
 - 4.3.2. Mitigated
- 4.4. Water Emissions by Land Use
 - 4.4.1. Unmitigated
 - 4.4.2. Mitigated
- 4.5. Waste Emissions by Land Use
 - 4.5.1. Unmitigated
 - 4.5.2. Mitigated

- 4.6. Refrigerant Emissions by Land Use
 - 4.6.1. Unmitigated
 - 4.6.2. Mitigated
- 4.7. Offroad Emissions By Equipment Type
 - 4.7.1. Unmitigated
 - 4.7.2. Mitigated
- 4.8. Stationary Emissions By Equipment Type
 - 4.8.1. Unmitigated
 - 4.8.2. Mitigated
- 4.9. User Defined Emissions By Equipment Type
 - 4.9.1. Unmitigated
 - 4.9.2. Mitigated
- 4.10. Soil Carbon Accumulation By Vegetation Type
 - 4.10.1. Soil Carbon Accumulation By Vegetation Type Unmitigated
 - 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type Unmitigated
 - 4.10.3. Avoided and Sequestered Emissions by Species Unmitigated
 - 4.10.4. Soil Carbon Accumulation By Vegetation Type Mitigated

- 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type Mitigated
- 4.10.6. Avoided and Sequestered Emissions by Species Mitigated
- 5. Activity Data
 - 5.1. Construction Schedule
 - 5.2. Off-Road Equipment
 - 5.2.1. Unmitigated
 - 5.2.2. Mitigated
 - 5.3. Construction Vehicles
 - 5.3.1. Unmitigated
 - 5.3.2. Mitigated
 - 5.4. Vehicles
 - 5.4.1. Construction Vehicle Control Strategies
 - 5.5. Architectural Coatings
 - 5.6. Dust Mitigation
 - 5.6.1. Construction Earthmoving Activities
 - 5.6.2. Construction Earthmoving Control Strategies
 - 5.7. Construction Paving

- 5.8. Construction Electricity Consumption and Emissions Factors
- 5.9. Operational Mobile Sources
 - 5.9.1. Unmitigated
 - 5.9.2. Mitigated
- 5.10. Operational Area Sources
 - 5.10.1. Hearths
 - 5.10.1.1. Unmitigated
 - 5.10.1.2. Mitigated
 - 5.10.2. Architectural Coatings
 - 5.10.3. Landscape Equipment
 - 5.10.4. Landscape Equipment Mitigated
- 5.11. Operational Energy Consumption
 - 5.11.1. Unmitigated
 - 5.11.2. Mitigated
- 5.12. Operational Water and Wastewater Consumption
 - 5.12.1. Unmitigated
 - 5.12.2. Mitigated

- 5.13. Operational Waste Generation
 - 5.13.1. Unmitigated
 - 5.13.2. Mitigated
- 5.14. Operational Refrigeration and Air Conditioning Equipment
 - 5.14.1. Unmitigated
 - 5.14.2. Mitigated
- 5.15. Operational Off-Road Equipment
 - 5.15.1. Unmitigated
 - 5.15.2. Mitigated
- 5.16. Stationary Sources
 - 5.16.1. Emergency Generators and Fire Pumps
 - 5.16.2. Process Boilers
- 5.17. User Defined
- 5.18. Vegetation
 - 5.18.1. Land Use Change
 - 5.18.1.1. Unmitigated
 - 5.18.1.2. Mitigated

- 5.18.1. Biomass Cover Type
 - 5.18.1.1. Unmitigated
 - 5.18.1.2. Mitigated
- 5.18.2. Sequestration
 - 5.18.2.1. Unmitigated
 - 5.18.2.2. Mitigated
- 6. Climate Risk Detailed Report
 - 6.1. Climate Risk Summary
 - 6.2. Initial Climate Risk Scores
 - 6.3. Adjusted Climate Risk Scores
 - 6.4. Climate Risk Reduction Measures
- 7. Health and Equity Details
 - 7.1. CalEnviroScreen 4.0 Scores
 - 7.2. Healthy Places Index Scores
 - 7.3. Overall Health & Equity Scores
 - 7.4. Health & Equity Measures
 - 7.5. Evaluation Scorecard

- 7.6. Health & Equity Custom Measures
- 8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	South B Street Mixed Use- PROJECT updated
Construction Start Date	7/1/2025
Operational Year	2026
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	4.60
Precipitation (days)	16.8
Location	57 S B St, San Mateo, CA 94401, USA
County	San Mateo
City	San Mateo
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1239
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq	Special Landscape	Population	Description
					ft)	Area (sq ft)		

High Turnover (Sit Down Restaurant)	5.30	1000sqft	0.08	5,302	0.00	_	_	_
General Office Building	35.9	1000sqft	0.16	35,888	0.00	_	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-3	Provide Transit-Oriented Development
Transportation	T-31-A*	Locate Project in Area with High Destination Accessibility
Transportation	T-32*	Orient Project Toward Transit, Bicycle, or Pedestrian Facility
Transportation	T-33*	Locate Project near Bike Path/Bike Lane
Transportation	T-34*	Provide Bike Parking
Transportation	T-46*	Improve Transit Access, Safety, and Comfort

^{*} Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

• • • • • • • • • • • • • • • • • • • •	north Fortal to Charles (187 day) for daily, for drift of Food (187 day) for daily, for the contract of																	
Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.50	2.46	10.7	14.6	0.02	0.46	5.37	5.84	0.43	2.58	3.01	_	2,736	2,736	0.16	0.14	1.95	2,754
Mit.	1.50	2.46	10.7	14.6	0.02	0.46	2.13	2.60	0.43	1.02	1.44	_	2,736	2,736	0.16	0.14	1.95	2,754
% Reduced	_	_	_	_	_	_	60%	56%	_	61%	52%	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	_		_	_	
Unmit.	1.50	2.45	10.8	14.5	0.02	0.44	0.33	0.77	0.41	0.08	0.49	_	2,720	2,720	0.12	0.06	0.04	2,740
Mit.	1.50	2.45	10.8	14.5	0.02	0.44	0.33	0.77	0.41	0.08	0.49	_	2,720	2,720	0.12	0.06	0.04	2,740
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.93	1.55	6.65	9.33	0.02	0.26	0.21	0.47	0.23	0.05	0.29	_	1,759	1,759	0.07	0.04	0.35	1,773
Mit.	0.93	1.55	6.65	9.33	0.02	0.26	0.21	0.47	0.23	0.05	0.29	_	1,759	1,759	0.07	0.04	0.35	1,773
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.17	0.28	1.21	1.70	< 0.005	0.05	0.04	0.09	0.04	0.01	0.05	_	291	291	0.01	0.01	0.06	293
Mit.	0.17	0.28	1.21	1.70	< 0.005	0.05	0.04	0.09	0.04	0.01	0.05	_	291	291	0.01	0.01	0.06	293
% Reduced	_	_	_	_	_	_	_	_	_	_	<u> </u>	<u> </u>	_	_	_	_	_	_

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	1.50	2.46	10.7	14.6	0.02	0.46	5.37	5.84	0.43	2.58	3.01	_	2,736	2,736	0.16	0.14	1.95	2,754
2026	1.43	2.40	10.2	14.5	0.02	0.39	0.33	0.72	0.36	0.08	0.44	_	2,726	2,726	0.11	0.05	1.26	2,744
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

2025	1.50	2.45	10.8	14.5	0.02	0.44	0.33	0.77	0.41	0.08	0.49	<u> </u>	2,720	2,720	0.12	0.06	0.04	2,740
2026	1.43	2.40	10.3	14.4	0.02	0.39	0.33	0.72	0.36	0.08	0.44	_	2,710	2,710	0.12	0.06	0.03	2,730
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.51	0.81	3.67	4.92	0.01	0.15	0.16	0.31	0.14	0.04	0.18	_	934	934	0.04	0.02	0.22	942
2026	0.93	1.55	6.65	9.33	0.02	0.26	0.21	0.47	0.23	0.05	0.29	_	1,759	1,759	0.07	0.04	0.35	1,773
Annual	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.09	0.15	0.67	0.90	< 0.005	0.03	0.03	0.06	0.03	0.01	0.03	_	155	155	0.01	< 0.005	0.04	156
2026	0.17	0.28	1.21	1.70	< 0.005	0.05	0.04	0.09	0.04	0.01	0.05	_	291	291	0.01	0.01	0.06	293

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	1.50	2.46	10.7	14.6	0.02	0.46	2.13	2.60	0.43	1.02	1.44	_	2,736	2,736	0.16	0.14	1.95	2,754
2026	1.43	2.40	10.2	14.5	0.02	0.39	0.33	0.72	0.36	0.08	0.44	_	2,726	2,726	0.11	0.05	1.26	2,744
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	1.50	2.45	10.8	14.5	0.02	0.44	0.33	0.77	0.41	0.08	0.49	_	2,720	2,720	0.12	0.06	0.04	2,740
2026	1.43	2.40	10.3	14.4	0.02	0.39	0.33	0.72	0.36	0.08	0.44	_	2,710	2,710	0.12	0.06	0.03	2,730
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.51	0.81	3.67	4.92	0.01	0.15	0.14	0.29	0.14	0.04	0.17	_	934	934	0.04	0.02	0.22	942
2026	0.93	1.55	6.65	9.33	0.02	0.26	0.21	0.47	0.23	0.05	0.29	_	1,759	1,759	0.07	0.04	0.35	1,773
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
2025	0.09	0.15	0.67	0.90	< 0.005	0.03	0.03	0.05	0.03	0.01	0.03	_	155	155	0.01	< 0.005	0.04	156

2026	0.17	0.28	1 21	1.70	< 0.005	0.05	0.04	0.09	0.04	0.01	0.05	_	291	291	0.01	0.01	0.06	293
	0.17	0.20	· · · - ·	0	1 0.000	0.00	0.0.	0.00	0.0.	0.0.	0.00		_0.	_0.	0.0.	0.0.	0.00	_00

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.79	2.63	1.37	13.9	0.04	0.05	3.18	3.24	0.05	0.81	0.86	67.3	4,497	4,564	7.02	0.16	18.7	4,806
Mit.	1.41	2.27	1.12	10.7	0.03	0.05	2.32	2.37	0.05	0.59	0.64	67.3	3,579	3,646	6.99	0.13	15.9	3,876
% Reduced	22%	13%	18%	23%	25%	9%	27%	27%	9%	27%	26%	_	20%	20%	< 0.5%	19%	15%	19%
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Unmit.	1.46	2.31	1.52	11.8	0.03	0.05	3.18	3.23	0.05	0.81	0.86	67.3	4,339	4,407	7.04	0.17	8.64	4,642
Mit.	1.08	1.96	1.23	8.71	0.03	0.05	2.32	2.37	0.04	0.59	0.63	67.3	3,462	3,529	7.00	0.14	8.57	3,754
% Reduced	26%	15%	20%	26%	25%	10%	27%	27%	9%	27%	26%	_	20%	20%	1%	19%	1%	19%
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.55	2.41	1.40	11.5	0.03	0.05	2.84	2.89	0.05	0.72	0.77	67.3	4,036	4,104	7.03	0.16	12.4	4,339
Mit.	1.19	2.07	1.13	8.71	0.02	0.05	2.07	2.12	0.04	0.53	0.57	67.3	3,242	3,309	6.99	0.13	11.3	3,534
% Reduced	23%	14%	19%	24%	25%	9%	27%	27%	9%	27%	26%	_	20%	19%	< 0.5%	19%	9%	19%
Annual (Max)	_	_			_		_	_	_	_	_	_	_	_	_		_	_
Unmit.	0.28	0.44	0.25	2.09	0.01	0.01	0.52	0.53	0.01	0.13	0.14	11.1	668	679	1.16	0.03	2.05	718
Mit.	0.22	0.38	0.21	1.59	< 0.005	0.01	0.38	0.39	0.01	0.10	0.10	11.1	537	548	1.16	0.02	1.87	585

%	23%	14%	19%	24%	25%	9%	27%	27%	9%	27%	26%	_	20%	19%	< 0.5%	19%	9%	19%
Reduced	2070	, , ,	.0,0	,,		070			0,0					1070	(0.0 / 0	. 6 / 6	• 70	

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.43	1.31	0.94	11.7	0.03	0.02	3.18	3.20	0.02	0.81	0.82	_	3,399	3,399	0.12	0.11	10.3	3,445
Area	0.32	1.29	0.02	1.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.37	7.37	< 0.005	< 0.005	_	7.39
Energy	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	1,061	1,061	0.13	0.01	_	1,068
Vater	_	_	_	_	_	_	_	_	_	_	_	15.3	28.9	44.2	1.57	0.04	_	94.9
Waste	_	_	_	_	_	_	_	_	_	_	_	52.0	0.00	52.0	5.20	0.00	_	182
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.38	8.38
Total	1.79	2.63	1.37	13.9	0.04	0.05	3.18	3.24	0.05	0.81	0.86	67.3	4,497	4,564	7.02	0.16	18.7	4,806
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.41	1.29	1.10	11.5	0.03	0.02	3.18	3.20	0.02	0.81	0.82	_	3,249	3,249	0.13	0.12	0.27	3,289
Area	_	1.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	1,061	1,061	0.13	0.01	_	1,068
Water	_	_	_	_	_	_	_	_	_	_	_	15.3	28.9	44.2	1.57	0.04	_	94.9
Waste	_	_	_	_	_	_	_	_	_	_	_	52.0	0.00	52.0	5.20	0.00	_	182
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.38	8.38
Гotal	1.46	2.31	1.52	11.8	0.03	0.05	3.18	3.23	0.05	0.81	0.86	67.3	4,339	4,407	7.04	0.17	8.64	4,642
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.35	1.24	0.97	10.2	0.03	0.02	2.84	2.86	0.02	0.72	0.73	_	2,942	2,942	0.12	0.11	4.01	2,982

Area	0.16	1.14	0.01	0.88	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.63	3.63	< 0.005	< 0.005	_	3.65
Energy	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	1,061	1,061	0.13	0.01	_	1,068
Water	_	_	_	_	_	_	_	_	_	_	_	15.3	28.9	44.2	1.57	0.04	_	94.9
Waste	_	_	_	_	_	_	_	_	_	_	_	52.0	0.00	52.0	5.20	0.00	_	182
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.38	8.38
Total	1.55	2.41	1.40	11.5	0.03	0.05	2.84	2.89	0.05	0.72	0.77	67.3	4,036	4,104	7.03	0.16	12.4	4,339
Annual	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Mobile	0.25	0.23	0.18	1.87	0.01	< 0.005	0.52	0.52	< 0.005	0.13	0.13	_	487	487	0.02	0.02	0.66	494
Area	0.03	0.21	< 0.005	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.60	0.60	< 0.005	< 0.005	_	0.60
Energy	0.01	< 0.005	0.08	0.06	< 0.005	0.01	_	0.01	0.01	_	0.01	_	176	176	0.02	< 0.005	_	177
Water	_	_	_	_	_	_	_	_	_	_	_	2.53	4.79	7.32	0.26	0.01	_	15.7
Waste	_	_	_	_	_	_	_	_	_	_	_	8.61	0.00	8.61	0.86	0.00	_	30.1
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	1.39	1.39
Total	0.28	0.44	0.25	2.09	0.01	0.01	0.52	0.53	0.01	0.13	0.14	11.1	668	679	1.16	0.03	2.05	718

2.6. Operations Emissions by Sector, Mitigated

Sector	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.04	0.96	0.68	8.55	0.02	0.01	2.32	2.34	0.01	0.59	0.60	_	2,481	2,481	0.09	0.08	7.52	2,515
Area	0.32	1.29	0.02	1.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.37	7.37	< 0.005	< 0.005	_	7.39
Energy	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	1,061	1,061	0.13	0.01	_	1,068
Water	_	_	_	_	_	_	_	_	_	_	_	15.3	28.9	44.2	1.57	0.04	_	94.9
Waste	_	_	_	_	_	_	_	_	_	_	_	52.0	0.00	52.0	5.20	0.00	_	182
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.38	8.38
Total	1.41	2.27	1.12	10.7	0.03	0.05	2.32	2.37	0.05	0.59	0.64	67.3	3,579	3,646	6.99	0.13	15.9	3,876

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.03	0.94	0.81	8.36	0.02	0.01	2.32	2.34	0.01	0.59	0.60	_	2,372	2,372	0.10	0.09	0.20	2,401
Area	_	1.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	1,061	1,061	0.13	0.01	_	1,068
Water	_	_	_	_	_	_	_	_	_	_	_	15.3	28.9	44.2	1.57	0.04	_	94.9
Waste	_	_	_	_	_	_	_	_	_	_	_	52.0	0.00	52.0	5.20	0.00	_	182
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.38	8.38
Total	1.08	1.96	1.23	8.71	0.03	0.05	2.32	2.37	0.04	0.59	0.63	67.3	3,462	3,529	7.00	0.14	8.57	3,754
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.99	0.90	0.71	7.47	0.02	0.01	2.07	2.08	0.01	0.53	0.54	_	2,148	2,148	0.09	0.08	2.93	2,177
Area	0.16	1.14	0.01	0.88	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.63	3.63	< 0.005	< 0.005	_	3.65
Energy	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	1,061	1,061	0.13	0.01	_	1,068
Water	_	_	_	_	_	_	_	_	_	_	_	15.3	28.9	44.2	1.57	0.04	_	94.9
Waste	_	_	_	_	_	_	_	_	_	_	_	52.0	0.00	52.0	5.20	0.00	_	182
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.38	8.38
Total	1.19	2.07	1.13	8.71	0.02	0.05	2.07	2.12	0.04	0.53	0.57	67.3	3,242	3,309	6.99	0.13	11.3	3,534
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.18	0.17	0.13	1.36	< 0.005	< 0.005	0.38	0.38	< 0.005	0.10	0.10	_	356	356	0.01	0.01	0.48	360
Area	0.03	0.21	< 0.005	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.60	0.60	< 0.005	< 0.005	_	0.60
Energy	0.01	< 0.005	0.08	0.06	< 0.005	0.01	_	0.01	0.01	_	0.01	_	176	176	0.02	< 0.005	_	177
Water	_	_	_	_	_	_	_	_	_	_	_	2.53	4.79	7.32	0.26	0.01	_	15.7
Waste	_	_	_	_	_	_	_	_	_	_	_	8.61	0.00	8.61	0.86	0.00	_	30.1
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.39	1.39
Total	0.22	0.38	0.21	1.59	< 0.005	0.01	0.38	0.39	0.01	0.10	0.10	11.1	537	548	1.16	0.02	1.87	585

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

			1		r for anni													
Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.47	4.33	5.65	0.01	0.16	_	0.16	0.14	_	0.14	_	852	852	0.03	0.01	_	855
Demolitio n	_	_	_	_	_	_	0.64	0.64	_	0.10	0.10	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.12	0.15	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	23.3	23.3	< 0.005	< 0.005	_	23.4
Demolitio n	_	_	_	_	_	_	0.02	0.02	_	< 0.005	< 0.005	_	_	_	_	_	_	-
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.02	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.87	3.87	< 0.005	< 0.005	_	3.88
Demolitio n	_	_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.02	0.02	0.31	0.00	0.00	0.08	0.08	0.00	0.02	0.02	_	82.4	82.4	< 0.005	< 0.005	0.27	82.9
Vendor	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	0.00
Hauling	0.15	0.02	1.31	0.89	0.01	0.01	0.20	0.21	0.01	0.05	0.06	_	849	849	0.13	0.14	1.68	895
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.14	2.14	< 0.005	< 0.005	< 0.005	2.17
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	23.3	23.3	< 0.005	< 0.005	0.02	24.5
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.35	0.35	< 0.005	< 0.005	< 0.005	0.36
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.85	3.85	< 0.005	< 0.005	< 0.005	4.05

3.2. Demolition (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_	_	_	<u> </u>	_	_	_	<u> </u>	_	_	<u> </u>	<u> </u>	<u> </u>	_	_
Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer (Max)																		

Off-Road Equipmen		0.47	4.33	5.65	0.01	0.16	_	0.16	0.14	_	0.14	_	852	852	0.03	0.01	_	855
Demolitio n	_	_	_	_	_	_	0.64	0.64	_	0.10	0.10	_	_	-	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.12	0.15	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	23.3	23.3	< 0.005	< 0.005	_	23.4
Demolitio n	_	_	_	_	_	_	0.02	0.02	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.02	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.87	3.87	< 0.005	< 0.005	_	3.88
Demolitio n	_	_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Worker	0.03	0.02	0.02	0.31	0.00	0.00	0.08	0.08	0.00	0.02	0.02	_	82.4	82.4	< 0.005	< 0.005	0.27	82.9
Vendor	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	0.00
Hauling	0.15	0.02	1.31	0.89	0.01	0.01	0.20	0.21	0.01	0.05	0.06	_	849	849	0.13	0.14	1.68	895

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.14	2.14	< 0.005	< 0.005	< 0.005	2.17
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	23.3	23.3	< 0.005	< 0.005	0.02	24.5
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.35	0.35	< 0.005	< 0.005	< 0.005	0.36
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.85	3.85	< 0.005	< 0.005	< 0.005	4.05

3.3. Site Preparation (2025) - Unmitigated

Location		ROG	NOx	CO	SO2				PM2.5E			BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.47	4.16	5.57	0.01	0.21	_	0.21	0.20	_	0.20	_	859	859	0.03	0.01	_	862
Dust From Material Movemen		_		_	_	_	0.53	0.53	_	0.06	0.06	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	

Average Daily		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.01	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.35	2.35	< 0.005	< 0.005	_	2.36
Dust From Material Movemen		_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen	< 0.005 t	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.39	0.39	< 0.005	< 0.005	_	0.39
Dust From Material Movemen	_	_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	41.2	41.2	< 0.005	< 0.005	0.14	41.4
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Average Daily	_		_	_	_		_	_	_		_			_		_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Vendor	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	0.00

Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Vendor	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	0.00
Hauling	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	0.00

3.4. Site Preparation (2025) - Mitigated

			1						J,			1	1	1	1	1	1	
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.47	4.16	5.57	0.01	0.21	_	0.21	0.20	_	0.20	_	859	859	0.03	0.01	_	862
Dust From Material Movement	_	_	_	_	_	_	0.21	0.21	_	0.02	0.02	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		< 0.005	0.01	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.35	2.35	< 0.005	< 0.005	_	2.36
Dust From Material Movemen:	_	_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_

Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.39	0.39	< 0.005	< 0.005	_	0.39
Dust From Material Movemen	-	_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	41.2	41.2	< 0.005	< 0.005	0.14	41.4
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Vendor	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	0.00
Hauling	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	0.00

3.5. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	co	SO2	PM10E	PM10D	PM10T		PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.09	10.1	10.0	0.02	0.46	_	0.46	0.43	_	0.43	_	1,714	1,714	0.07	0.01	_	1,720
Dust From Material Movemen	<u> </u>			_		_	5.31	5.31	_	2.57	2.57	_			_			
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			_
Average Daily	_	_	_	-	_	-	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.06	0.06	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	9.39	9.39	< 0.005	< 0.005	_	9.42
Dust From Material Movemen	<u> </u>	_	_	_	_	-	0.03	0.03	_	0.01	0.01	_	_	_	_	_	-	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.55	1.55	< 0.005	< 0.005	_	1.56

Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.01	0.01	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.01	0.23	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	61.8	61.8	< 0.005	< 0.005	0.20	62.1
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.32	0.32	< 0.005	< 0.005	< 0.005	0.33
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Vendor	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	0.00
Hauling	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	0.00

3.6. Grading (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Off-Road Equipmen		1.09	10.1	10.0	0.02	0.46	_	0.46	0.43	_	0.43	_	1,714	1,714	0.07	0.01	_	1,720
Dust From Material Movemen	<u> </u>	_	_	_	_	_	2.07	2.07	_	1.00	1.00	_	-	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	-	-	_	_	_	-	_	-	-	_	_	-
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.06	0.06	< 0.005	< 0.005	-	< 0.005	< 0.005	_	< 0.005	_	9.39	9.39	< 0.005	< 0.005	_	9.42
Dust From Material Movemen	<u> </u>	_	_	-	_	_	0.01	0.01	_	0.01	0.01	-	-	_	_	_	_	-
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.01	0.01	< 0.005	< 0.005	-	< 0.005	< 0.005	_	< 0.005	_	1.55	1.55	< 0.005	< 0.005	_	1.56
Dust From Material Movemen	_	_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	-
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.01	0.23	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	61.8	61.8	< 0.005	< 0.005	0.20	62.1
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.32	0.32	< 0.005	< 0.005	< 0.005	0.33
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Vendor	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	0.00
Hauling	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	0.00

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.52	5.14	6.94	0.01	0.22	_	0.22	0.20	_	0.20	_	1,305	1,305	0.05	0.01	_	1,309
Onsite truck	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	0.00

																_		
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.52	5.14	6.94	0.01	0.22	_	0.22	0.20	_	0.20	_	1,305	1,305	0.05	0.01	_	1,309
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.17	1.65	2.23	< 0.005	0.07	_	0.07	0.06	_	0.06	_	419	419	0.02	< 0.005	_	420
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.30	0.41	< 0.005	0.01	_	0.01	0.01	_	0.01	_	69.3	69.3	< 0.005	< 0.005	_	69.6
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.04	0.03	0.02	0.43	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	113	113	< 0.005	< 0.005	0.37	114
Vendor	0.03	0.01	0.28	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	194	194	0.02	0.03	0.48	203
Hauling	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	0.00
Daily, Winter (Max)	_	_	-	_	_	_	_	_	_	_	-	_	_	_	_	_	_	-
Worker	0.04	0.03	0.03	0.40	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	107	107	< 0.005	< 0.005	0.01	108
Vendor	0.03	0.01	0.29	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	194	194	0.02	0.03	0.01	203
Hauling	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	0.00
Average Daily	_	_	_	-	_	_	_	_	_	-	_	_	_	-	_	_	-	-

Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	34.4	34.4	< 0.005	< 0.005	0.05	34.8
Vendor	0.01	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	_	62.4	62.4	0.01	0.01	0.07	65.2
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.69	5.69	< 0.005	< 0.005	0.01	5.77
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	10.3	10.3	< 0.005	< 0.005	0.01	10.8
Hauling	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	0.00

3.8. Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.52	5.14	6.94	0.01	0.22	_	0.22	0.20	_	0.20	_	1,305	1,305	0.05	0.01	_	1,309
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.52	5.14	6.94	0.01	0.22	_	0.22	0.20	_	0.20	_	1,305	1,305	0.05	0.01	_	1,309
Onsite truck	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	0.00
Average Daily	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.17	1.65	2.23	< 0.005	0.07	_	0.07	0.06	_	0.06	_	419	419	0.02	< 0.005	_	420

Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.03	0.30	0.41	< 0.005	0.01	_	0.01	0.01	_	0.01	_	69.3	69.3	< 0.005	< 0.005	_	69.6
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.04	0.03	0.02	0.43	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	113	113	< 0.005	< 0.005	0.37	114
Vendor	0.03	0.01	0.28	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	194	194	0.02	0.03	0.48	203
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.04	0.03	0.03	0.40	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	107	107	< 0.005	< 0.005	0.01	108
Vendor	0.03	0.01	0.29	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	194	194	0.02	0.03	0.01	203
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	34.4	34.4	< 0.005	< 0.005	0.05	34.8
Vendor	0.01	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	_	62.4	62.4	0.01	0.01	0.07	65.2
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.69	5.69	< 0.005	< 0.005	0.01	5.77
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	10.3	10.3	< 0.005	< 0.005	0.01	10.8
Hauling	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	0.00

3.9. Building Construction (2026) - Unmitigated

					r for anni		_					200	VID CO.					
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.49	4.81	6.91	0.01	0.19	_	0.19	0.17	_	0.17	_	1,304	1,304	0.05	0.01	_	1,309
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		0.49	4.81	6.91	0.01	0.19	_	0.19	0.17	_	0.17	_	1,304	1,304	0.05	0.01	_	1,309
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.32	3.12	4.49	0.01	0.12	_	0.12	0.11	_	0.11	_	848	848	0.03	0.01	_	850
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	0.57	0.82	< 0.005	0.02	_	0.02	0.02	_	0.02	_	140	140	0.01	< 0.005	_	141
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_
Worker	0.04	0.03	0.02	0.40	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	111	111	< 0.005	< 0.005	0.33	111
Vendor	0.03	0.01	0.26	0.16	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	191	191	0.02	0.03	0.45	200
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.04	0.03	0.03	0.37	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	105	105	< 0.005	< 0.005	0.01	106
Vendor	0.03	0.01	0.27	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	191	191	0.02	0.03	0.01	199
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.07	0.07	0.00	0.02	0.02	_	68.1	68.1	< 0.005	< 0.005	0.09	69.1
Vendor	0.02	< 0.005	0.18	0.11	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	124	124	0.01	0.02	0.13	130
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.3	11.3	< 0.005	< 0.005	0.02	11.4
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	20.5	20.5	< 0.005	< 0.005	0.02	21.5
Hauling	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	0.00

3.10. Building Construction (2026) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.49	4.81	6.91	0.01	0.19	_	0.19	0.17	_	0.17	_	1,304	1,304	0.05	0.01		1,309
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmen		0.49	4.81	6.91	0.01	0.19	_	0.19	0.17	_	0.17	_	1,304	1,304	0.05	0.01	_	1,309
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.32	3.12	4.49	0.01	0.12	_	0.12	0.11	_	0.11	_	848	848	0.03	0.01	_	850
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	0.57	0.82	< 0.005	0.02	_	0.02	0.02	_	0.02	_	140	140	0.01	< 0.005	_	141
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.04	0.03	0.02	0.40	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	111	111	< 0.005	< 0.005	0.33	111
Vendor	0.03	0.01	0.26	0.16	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	191	191	0.02	0.03	0.45	200
Hauling	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	0.00
Daily, Winter (Max)	_	-	-	_	_	_	_	-	_	_	_	-	_	_	_	_	_	_
Worker	0.04	0.03	0.03	0.37	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	105	105	< 0.005	< 0.005	0.01	106

Vendor	0.03	0.01	0.27	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	191	191	0.02	0.03	0.01	199
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.07	0.07	0.00	0.02	0.02	_	68.1	68.1	< 0.005	< 0.005	0.09	69.1
Vendor	0.02	< 0.005	0.18	0.11	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	124	124	0.01	0.02	0.13	130
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.3	11.3	< 0.005	< 0.005	0.02	11.4
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	20.5	20.5	< 0.005	< 0.005	0.02	21.5
Hauling	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	0.00

3.11. Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.51	4.37	5.31	0.01	0.19	_	0.19	0.18	_	0.18	_	823	823	0.03	0.01	_	826
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.51	4.37	5.31	0.01	0.19	_	0.19	0.18	_	0.18	_	823	823	0.03	0.01	_	826
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Onsite truck	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	0.00
Average Daily	_	_	-	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Off-Road Equipmen		0.16	1.40	1.70	< 0.005	0.06	_	0.06	0.06	_	0.06	_	264	264	0.01	< 0.005	_	265
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.26	0.31	< 0.005	0.01	_	0.01	0.01	_	0.01	_	43.8	43.8	< 0.005	< 0.005	_	43.9
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Worker	0.05	0.04	0.03	0.55	0.00	0.00	0.14	0.14	0.00	0.03	0.03	_	144	144	< 0.005	< 0.005	0.48	145
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Worker	0.05	0.04	0.04	0.50	0.00	0.00	0.14	0.14	0.00	0.03	0.03	-	136	136	< 0.005	0.01	0.01	138
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_
Worker	0.02	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	43.8	43.8	< 0.005	< 0.005	0.07	44.5
Vendor	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	0.00

36 / 92

Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.26	7.26	< 0.005	< 0.005	0.01	7.36
Vendor	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	0.00
Hauling	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	0.00

3.12. Paving (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.51	4.37	5.31	0.01	0.19	_	0.19	0.18	_	0.18	_	823	823	0.03	0.01	_	826
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Off-Road Equipmen		0.51	4.37	5.31	0.01	0.19	_	0.19	0.18	_	0.18	_	823	823	0.03	0.01	_	826
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.16	1.40	1.70	< 0.005	0.06	_	0.06	0.06	_	0.06	_	264	264	0.01	< 0.005	_	265
Paving	_	0.00	_	_	_	_	<u> </u>	_	_	_	<u> </u>	_	_	_	_	_	_	_

Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.03	0.26	0.31	< 0.005	0.01	_	0.01	0.01	_	0.01	_	43.8	43.8	< 0.005	< 0.005	_	43.9
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	-	-	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.05	0.04	0.03	0.55	0.00	0.00	0.14	0.14	0.00	0.03	0.03	_	144	144	< 0.005	< 0.005	0.48	145
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	-	_	_	_	_	-	_	_	_	_	_	_
Worker	0.05	0.04	0.04	0.50	0.00	0.00	0.14	0.14	0.00	0.03	0.03	_	136	136	< 0.005	0.01	0.01	138
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	-	43.8	43.8	< 0.005	< 0.005	0.07	44.5
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.26	7.26	< 0.005	< 0.005	0.01	7.36
Vendor	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	0.00
Hauling	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	0.00

3.13. Paving (2026) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		0.49	4.24	5.30	0.01	0.18	_	0.18	0.16	_	0.16	_	823	823	0.03	0.01	_	826
Paving	_	0.00	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		0.49	4.24	5.30	0.01	0.18	_	0.18	0.16	_	0.16	_	823	823	0.03	0.01	_	826
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.32	2.75	3.43	0.01	0.12	_	0.12	0.11	_	0.11	_	533	533	0.02	< 0.005	_	535
Paving	_	0.00	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	0.50	0.63	< 0.005	0.02	_	0.02	0.02	-	0.02	_	88.3	88.3	< 0.005	< 0.005	_	88.6
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	-	_	_	-	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.04	0.04	0.03	0.51	0.00	0.00	0.14	0.14	0.00	0.03	0.03	_	141	141	< 0.005	< 0.005	0.42	142
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.04	0.04	0.04	0.47	0.00	0.00	0.14	0.14	0.00	0.03	0.03	_	133	133	< 0.005	0.01	0.01	135
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.02	0.29	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	86.7	86.7	< 0.005	< 0.005	0.12	88.0
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	14.4	14.4	< 0.005	< 0.005	0.02	14.6
Vendor	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	0.00
Hauling	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	0.00

3.14. Paving (2026) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.49	4.24	5.30	0.01	0.18	_	0.18	0.16	_	0.16	-	823	823	0.03	0.01	_	826
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.49	4.24	5.30	0.01	0.18	-	0.18	0.16	_	0.16	_	823	823	0.03	0.01	-	826
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	-	_	-	_	_	_	-	-	_	-	_	-	-
Off-Road Equipmen		0.32	2.75	3.43	0.01	0.12	_	0.12	0.11	_	0.11	_	533	533	0.02	< 0.005	_	535
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	0.50	0.63	< 0.005	0.02	_	0.02	0.02	_	0.02	-	88.3	88.3	< 0.005	< 0.005	_	88.6
Paving	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.04	0.04	0.03	0.51	0.00	0.00	0.14	0.14	0.00	0.03	0.03	_	141	141	< 0.005	< 0.005	0.42	142
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.04	0.04	0.04	0.47	0.00	0.00	0.14	0.14	0.00	0.03	0.03	_	133	133	< 0.005	0.01	0.01	135
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.02	0.29	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	86.7	86.7	< 0.005	< 0.005	0.12	88.0
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	14.4	14.4	< 0.005	< 0.005	0.02	14.6
Vendor	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	0.00
Hauling	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	0.00

3.15. Architectural Coating (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.13	0.88	1.14	< 0.005	0.03	_	0.03	0.03	_	0.03	_	134	134	0.01	< 0.005	_	134

Architect ural Coatings		1.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.13	0.88	1.14	< 0.005	0.03	_	0.03	0.03	_	0.03	_	134	134	0.01	< 0.005	_	134
Architect ural Coatings	_	1.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.04	0.28	0.37	< 0.005	0.01	_	0.01	0.01	_	0.01	_	42.9	42.9	< 0.005	< 0.005	_	43.0
Architect ural Coatings	_	0.39	_	_	_	_	_	_	_	_	_	_	-	-	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.05	0.07	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.09	7.09	< 0.005	< 0.005	_	7.12
Architect ural Coatings	_	0.07	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	22.6	22.6	< 0.005	< 0.005	0.07	22.7
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	21.3	21.3	< 0.005	< 0.005	< 0.005	21.6
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.87	6.87	< 0.005	< 0.005	0.01	6.97
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.14	1.14	< 0.005	< 0.005	< 0.005	1.15
Vendor	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	0.00
Hauling	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	0.00

3.16. Architectural Coating (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.13	0.88	1.14	< 0.005	0.03	_	0.03	0.03	-	0.03	-	134	134	0.01	< 0.005	_	134
Architect ural Coatings	_	1.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.13	0.88	1.14	< 0.005	0.03	_	0.03	0.03	_	0.03	_	134	134	0.01	< 0.005	_	134
Architect ural Coatings	_	1.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.04	0.28	0.37	< 0.005	0.01	_	0.01	0.01	_	0.01	_	42.9	42.9	< 0.005	< 0.005	_	43.0
Architect ural Coatings	_	0.39	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.05	0.07	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.09	7.09	< 0.005	< 0.005	_	7.12
Architect ural Coatings	_	0.07	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	22.6	22.6	< 0.005	< 0.005	0.07	22.7
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	21.3	21.3	< 0.005	< 0.005	< 0.005	21.6
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.87	6.87	< 0.005	< 0.005	0.01	6.97
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.14	1.14	< 0.005	< 0.005	< 0.005	1.15
Vendor	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	0.00
Hauling	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	0.00

3.17. Architectural Coating (2026) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.12	0.86	1.13	< 0.005	0.02	_	0.02	0.02	_	0.02	_	134	134	0.01	< 0.005	_	134
Architect ural Coatings	_	1.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.12	0.86	1.13	< 0.005	0.02	_	0.02	0.02	_	0.02	_	134	134	0.01	< 0.005	_	134
Architect ural Coatings	_	1.21	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.08	0.55	0.73	< 0.005	0.01	_	0.01	0.01	_	0.01	_	86.5	86.5	< 0.005	< 0.005	_	86.8
Architect ural Coatings	_	0.78	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.10	0.13	< 0.005	< 0.005	-	< 0.005	< 0.005	_	< 0.005	-	14.3	14.3	< 0.005	< 0.005	_	14.4
Architect ural Coatings	_	0.14	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_		_		_			_			_			_	_		_	

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	22.1	22.1	< 0.005	< 0.005	0.07	22.3
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	20.9	20.9	< 0.005	< 0.005	< 0.005	21.2
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.6	13.6	< 0.005	< 0.005	0.02	13.8
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.25	2.25	< 0.005	< 0.005	< 0.005	2.28
Vendor	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	0.00
Hauling	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	0.00

3.18. Architectural Coating (2026) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.12	0.86	1.13	< 0.005	0.02	_	0.02	0.02	_	0.02	_	134	134	0.01	< 0.005	_	134
Architect ural Coatings	_	1.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.12	0.86	1.13	< 0.005	0.02	_	0.02	0.02	_	0.02	_	134	134	0.01	< 0.005	_	134
Architect ural Coatings	_	1.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.08	0.55	0.73	< 0.005	0.01	_	0.01	0.01	_	0.01	_	86.5	86.5	< 0.005	< 0.005	_	86.8
Architect ural Coatings	_	0.78	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.10	0.13	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	14.3	14.3	< 0.005	< 0.005	_	14.4
Architect ural Coatings	_	0.14	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	22.1	22.1	< 0.005	< 0.005	0.07	22.3
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	20.9	20.9	< 0.005	< 0.005	< 0.005	21.2
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.6	13.6	< 0.005	< 0.005	0.02	13.8
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.25	2.25	< 0.005	< 0.005	< 0.005	2.28
Vendor	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	0.00
Hauling	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	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

			•	<i>,</i> ,		,			- ·									
Land	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use																		

Daily, Summer (Max)	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		0.30	0.21	2.65	0.01	< 0.005	0.72	0.73	< 0.005	0.18	0.19	_	770	770	0.03	0.02	2.33	781
General Office Building	1.10	1.01	0.72	9.06	0.03	0.01	2.46	2.48	0.01	0.62	0.64	_	2,629	2,629	0.09	0.09	7.97	2,665
Total	1.43	1.31	0.94	11.7	0.03	0.02	3.18	3.20	0.02	0.81	0.82	_	3,399	3,399	0.12	0.11	10.3	3,445
Daily, Winter (Max)	_	-	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-	_
High Turnover (Sit Down Restaurar		0.29	0.25	2.59	0.01	< 0.005	0.72	0.73	< 0.005	0.18	0.19	_	736	736	0.03	0.03	0.06	745
General Office Building	1.09	1.00	0.85	8.86	0.02	0.01	2.46	2.48	0.01	0.62	0.64	_	2,513	2,513	0.10	0.09	0.21	2,544
Total	1.41	1.29	1.10	11.5	0.03	0.02	3.18	3.20	0.02	0.81	0.82	-	3,249	3,249	0.13	0.12	0.27	3,289
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		0.05	0.03	0.31	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	_	70.1	70.1	< 0.005	< 0.005	0.09	71.2
General Office Building	0.20	0.18	0.15	1.56	< 0.005	< 0.005	0.44	0.45	< 0.005	0.11	0.12	_	417	417	0.02	0.02	0.57	422
Total	0.25	0.23	0.18	1.87	0.01	< 0.005	0.52	0.52	< 0.005	0.13	0.13		487	487	0.02	0.02	0.66	494

4.1.2. Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	-	-	-	-	-	_	_	-	-	_	-	_	_	_	_	-
High Turnover (Sit Down Restaurar	0.24 t)	0.22	0.15	1.94	0.01	< 0.005	0.53	0.53	< 0.005	0.13	0.14	_	562	562	0.02	0.02	1.70	570
General Office Building	0.81	0.74	0.53	6.62	0.02	0.01	1.80	1.81	0.01	0.46	0.47	_	1,919	1,919	0.07	0.06	5.82	1,945
Total	1.04	0.96	0.68	8.55	0.02	0.01	2.32	2.34	0.01	0.59	0.60	_	2,481	2,481	0.09	0.08	7.52	2,515
Daily, Winter (Max)	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar	0.23 t)	0.21	0.18	1.89	0.01	< 0.005	0.53	0.53	< 0.005	0.13	0.14	_	537	537	0.02	0.02	0.04	544
General Office Building	0.80	0.73	0.62	6.47	0.02	0.01	1.80	1.81	0.01	0.46	0.47	_	1,834	1,834	0.07	0.07	0.15	1,857
Total	1.03	0.94	0.81	8.36	0.02	0.01	2.32	2.34	0.01	0.59	0.60	_	2,372	2,372	0.10	0.09	0.20	2,401
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar	0.04 t)	0.03	0.02	0.23	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	_	51.2	51.2	< 0.005	< 0.005	0.07	52.0
General Office Building	0.14	0.13	0.11	1.14	< 0.005	< 0.005	0.32	0.33	< 0.005	0.08	0.08	_	304	304	0.01	0.01	0.42	308
Total	0.18	0.17	0.13	1.36	< 0.005	< 0.005	0.38	0.38	< 0.005	0.10	0.10	_	356	356	0.01	0.01	0.48	360

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	-	-	_	-	-	_	-	-	-	-	-	-	-	-	-	-
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	134	134	0.02	< 0.005	_	136
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	425	425	0.07	0.01	_	429
Total	_	_	_	_	_	_	_	_	_	_	_	_	559	559	0.09	0.01	_	565
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	134	134	0.02	< 0.005	_	136
General Office Building	_	_	-	_	_	_	_	_	_	_	_	-	425	425	0.07	0.01	-	429
Total	_	_	_	_	_	_	_	_	_	_	_	_	559	559	0.09	0.01	_	565
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	22.3	22.3	< 0.005	< 0.005	_	22.5

General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	70.3	70.3	0.01	< 0.005	_	71.0
Total	_	_	_	_	_	_	_	_	_	_	_	_	92.6	92.6	0.01	< 0.005	_	93.5

4.2.2. Electricity Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	134	134	0.02	< 0.005	_	136
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	425	425	0.07	0.01	_	429
Total	_	_	_	_	_	_	_	_	_	_	_	_	559	559	0.09	0.01	_	565
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	134	134	0.02	< 0.005	_	136
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	425	425	0.07	0.01	_	429
Total	_	_	_	_	_	_	_	_	_	_	_	_	559	559	0.09	0.01	_	565
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	22.3	22.3	< 0.005	< 0.005	_	22.5
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	70.3	70.3	0.01	< 0.005	_	71.0
Total	_	_	_	_	_	_	_	_	_	_	_	_	92.6	92.6	0.01	< 0.005	_	93.5

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	-	_	_	_	-	_	-	-	_	-	_
High Turnover (Sit Down Restaurar		0.01	0.19	0.16	< 0.005	0.01	_	0.01	0.01	_	0.01	_	229	229	0.02	< 0.005		230
General Office Building	0.03	0.01	0.23	0.19	< 0.005	0.02	_	0.02	0.02	_	0.02	_	273	273	0.02	< 0.005	_	274
Total	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	502	502	0.04	< 0.005	_	504
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		0.01	0.19	0.16	< 0.005	0.01	_	0.01	0.01	_	0.01	_	229	229	0.02	< 0.005	_	230
General Office Building	0.03	0.01	0.23	0.19	< 0.005	0.02	_	0.02	0.02	_	0.02	_	273	273	0.02	< 0.005	_	274
Total	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	502	502	0.04	< 0.005	_	504

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	<u> </u>	_	_	_
High Turnover (Sit Down Restaurar		< 0.005	0.04	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	38.0	38.0	< 0.005	< 0.005	_	38.1
General Office Building	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	45.2	45.2	< 0.005	< 0.005	_	45.4
Total	0.01	< 0.005	0.08	0.06	< 0.005	0.01	_	0.01	0.01	_	0.01	_	83.2	83.2	0.01	< 0.005	_	83.4

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		0.01	0.19	0.16	< 0.005	0.01	_	0.01	0.01	_	0.01	_	229	229	0.02	< 0.005	_	230
General Office Building	0.03	0.01	0.23	0.19	< 0.005	0.02	_	0.02	0.02	_	0.02	_	273	273	0.02	< 0.005	_	274
Total	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	502	502	0.04	< 0.005	_	504
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		0.01	0.19	0.16	< 0.005	0.01	_	0.01	0.01	_	0.01	_	229	229	0.02	< 0.005	_	230
General Office Building	0.03	0.01	0.23	0.19	< 0.005	0.02	_	0.02	0.02	_	0.02	_	273	273	0.02	< 0.005	_	274

Total	0.05	0.02	0.42	0.35	< 0.005	0.03	_	0.03	0.03	_	0.03	_	502	502	0.04	< 0.005	_	504
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		< 0.005	0.04	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	38.0	38.0	< 0.005	< 0.005	_	38.1
General Office Building	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	45.2	45.2	< 0.005	< 0.005	_	45.4
Total	0.01	< 0.005	0.08	0.06	< 0.005	0.01	_	0.01	0.01	_	0.01	_	83.2	83.2	0.01	< 0.005	_	83.4

4.3. Area Emissions by Source

4.3.1. Unmitigated

	TOG	ROG	NOx						PM2.5E			BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.88	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.12	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.32	0.29	0.02	1.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.37	7.37	< 0.005	< 0.005	_	7.39
Total	0.32	1.29	0.02	1.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.37	7.37	< 0.005	< 0.005	_	7.39
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Consum Products	_	0.88	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.12	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	1.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.16	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.02	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.03	0.03	< 0.005	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.60	0.60	< 0.005	< 0.005	_	0.60
Total	0.03	0.21	< 0.005	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.60	0.60	< 0.005	< 0.005	_	0.60

4.3.2. Mitigated

Source	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products		0.88	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings		0.12	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Landsca pe Equipme nt	0.32	0.29	0.02	1.79	< 0.005	< 0.005	-	< 0.005	< 0.005	_	< 0.005	_	7.37	7.37	< 0.005	< 0.005	_	7.39
Total	0.32	1.29	0.02	1.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.37	7.37	< 0.005	< 0.005	_	7.39
Daily, Winter (Max)	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.88	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.12	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	1.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.16	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.02	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Landsca pe Equipme nt	0.03	0.03	< 0.005	0.16	< 0.005	< 0.005	-	< 0.005	< 0.005	_	< 0.005	_	0.60	0.60	< 0.005	< 0.005	_	0.60
Total	0.03	0.21	< 0.005	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.60	0.60	< 0.005	< 0.005	_	0.60

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

						. ,												
Land	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use																		

							_											
Daily, Summer (Max)	_	_	_	_	_	_		_	_	_	_	_	_	_	_		_	_
High Turnover (Sit Down Restaurar	— t)	_	_	_	_	_	_	_	_	_	-	3.08	5.82	8.91	0.32	0.01	_	19.1
General Office Building	_	_	_	_	_	_	_	_	_	_	_	12.2	23.1	35.3	1.26	0.03	_	75.7
Total	_	_	_	_	_	_	_	_	_	_	_	15.3	28.9	44.2	1.57	0.04	_	94.9
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_
High Turnover (Sit Down Restaurar	t)	_	_	_	_	-	_	_	_	_	-	3.08	5.82	8.91	0.32	0.01	_	19.1
General Office Building	_	_	_	_	_	_	_	_	_	_	_	12.2	23.1	35.3	1.26	0.03	_	75.7
Total	_	_	_	_	_	_	_	_	_	_	-	15.3	28.9	44.2	1.57	0.04	_	94.9
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	-	0.51	0.96	1.47	0.05	< 0.005	_	3.16
General Office Building	_	_	_	_	_	_	_	_	_	_	_	2.02	3.82	5.85	0.21	0.01	_	12.5
Total	_	_	_	_	_	_	_	_	_	_	_	2.53	4.79	7.32	0.26	0.01	_	15.7

4.4.2. Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	-	-	-	-	-	-	-	-	-	-	_	_	-	-	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	3.08	5.82	8.91	0.32	0.01	_	19.1
General Office Building	_	_	_	_	_	_	_	_	_	_	_	12.2	23.1	35.3	1.26	0.03	_	75.7
Total	_	_	_	_	_	_	_	_	_	_	_	15.3	28.9	44.2	1.57	0.04	_	94.9
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	3.08	5.82	8.91	0.32	0.01	_	19.1
General Office Building	_	_	_	_	_	_	_	_	_	_	_	12.2	23.1	35.3	1.26	0.03	_	75.7
Total	_	_	_	_	_	_	_	_	_	_	_	15.3	28.9	44.2	1.57	0.04	_	94.9
Annual	_	_			_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	0.51	0.96	1.47	0.05	< 0.005	_	3.16
General Office Building	_	-	_	_	_	_	_	_	_	_	_	2.02	3.82	5.85	0.21	0.01	_	12.5
Total	_	_	_	_	_	_	_	_	_	_	_	2.53	4.79	7.32	0.26	0.01	_	15.7

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

						uai) and												
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	34.0	0.00	34.0	3.40	0.00	_	119
General Office Building	_	_	_	_	_	_	_	_	_	_	_	18.0	0.00	18.0	1.80	0.00	_	62.9
Total	_	_	_	_	_	_	_	_		_	_	52.0	0.00	52.0	5.20	0.00	_	182
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	34.0	0.00	34.0	3.40	0.00	_	119
General Office Building	_	_	_	_	_	_	_	_	_	_	_	18.0	0.00	18.0	1.80	0.00	_	62.9
Total	_	_	_	_	_	_	_	_	_	_	_	52.0	0.00	52.0	5.20	0.00	_	182
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down		_	_	_	_	_	_	_	_	_	_	5.63	0.00	5.63	0.56	0.00	_	19.7
Restaurar	t)																	

General Office Building	_	_	_	_	_	_	_	_	_	_	_	2.98	0.00	2.98	0.30	0.00	_	10.4
Total	_	_	_	_	_	_	_	_	_	_	_	8.61	0.00	8.61	0.86	0.00	_	30.1

4.5.2. Mitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	-	-	_	_	_	_	_	_	34.0	0.00	34.0	3.40	0.00	_	119
General Office Building	_	_	_	_	_	-	_	_	_	_	_	18.0	0.00	18.0	1.80	0.00	_	62.9
Total	_	_	_	_	_	_	_	_	_	_	_	52.0	0.00	52.0	5.20	0.00	_	182
Daily, Winter (Max)	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	-	_	_	_	_	_	_	_	34.0	0.00	34.0	3.40	0.00	_	119
General Office Building	_	_	_	-	_	_	_	_	_	_	_	18.0	0.00	18.0	1.80	0.00	_	62.9
Total	_	_	_	_	_	_	_	_	_	_	_	52.0	0.00	52.0	5.20	0.00	_	182
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	5.63	0.00	5.63	0.56	0.00	_	19.7
General Office Building	_	_	_	_	_	_	_	_	_	_	_	2.98	0.00	2.98	0.30	0.00	_	10.4
Total	_	_	_	_	_	_	_	_	_	_	_	8.61	0.00	8.61	0.86	0.00	_	30.1

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.29	8.29
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.09	0.09
Total	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	8.38	8.38
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.29	8.29

General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.09	0.09
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.38	8.38
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.37	1.37
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.01	0.01
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.39	1.39

4.6.2. Mitigated

Land Use		ROG	NOx		SO2					PM2.5D		BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.29	8.29
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.09	0.09
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.38	8.38
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

High Turnover (Sit Down Restaurar	t)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.29	8.29
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.09	0.09
Total	_	_	_	_	_	_	_	_		_	_	_		_	_	_	8.38	8.38
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High Turnover (Sit Down Restaurar	— t)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.37	1.37
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.01	0.01
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.39	1.39

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipme						PM10E	PM10D		PM2.5E			BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
nt Type	100	KOO	NOX		302	TWITOL	TWITOD	TIVITOT	T WZ.JL	T WIZ.3D	1 WZ.51	BCO2	NBC02	0021	OT 14	NZO	K -	002e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG		со	SO2	PM10E			PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt		ROG		со	SO2		,		PM2.5E	PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Type Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

		(,	,	J, J-		,	(-				,							
Equipme	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
nt																		
Туре																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_		_	_	_	_	_	_		_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	<u> </u>		_	_		_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetatio	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_		_	_	_	_	_	_		_	_	_		_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_		_	_	_	_	_	_		_	_	_		_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
																1		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_		_	_	_			_	_	_	_	_	_		_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetatio n	TOG	ROG		со	SO2	PM10E		PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Land Use	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Annual	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	_	-	-	_	_	-	-	-	_	-	-	_	-	-	-	-
Avoided	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/1/2025	7/15/2025	5.00	10.0	_
Site Preparation	Site Preparation	7/16/2025	7/17/2025	5.00	1.00	_
Grading	Grading	7/18/2025	7/20/2025	5.00	2.00	_
Building Construction	Building Construction	7/21/2025	11/28/2026	5.00	355	_
Paving	Paving	7/21/2025	11/27/2026	5.00	355	_
Architectural Coating	Architectural Coating	7/21/2025	11/27/2026	5.00	355	_

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Fliase Name	Equipment Type	ruei Type	Engine nei	Number per Day	Tiouis Fel Day	Tiorsepower	Luau Faciui

Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Rubber Tired Dozers	Diesel	Average	1.00	1.00	367	0.40
Tractors/Loaders/Backh oes	Diesel	Average	2.00	6.00	84.0	0.37
Graders	Diesel	Average	1.00	8.00	148	0.41
Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	84.0	0.37
Graders	Diesel	Average	1.00	6.00	148	0.41
Rubber Tired Dozers	Diesel	Average	1.00	6.00	367	0.40
Tractors/Loaders/Backh oes	Diesel	Average	1.00	7.00	84.0	0.37
Cranes	Diesel	Average	1.00	4.00	367	0.29
Forklifts	Diesel	Average	2.00	6.00	82.0	0.20
Tractors/Loaders/Backh oes	Diesel	Average	2.00	8.00	84.0	0.37
Cement and Mortar Mixers	Diesel	Average	4.00	6.00	10.0	0.56
Pavers	Diesel	Average	1.00	7.00	81.0	0.42
Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Tractors/Loaders/Backh oes	Diesel	Average	1.00	7.00	84.0	0.37
Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
	Rubber Tired Dozers Tractors/Loaders/Backhoes Graders Tractors/Loaders/Backhoes Graders Rubber Tired Dozers Tractors/Loaders/Backhoes Cranes Forklifts Tractors/Loaders/Backhoes Cement and Mortar Mixers Pavers Rollers Tractors/Loaders/Backhoes	Rubber Tired Dozers Diesel Tractors/Loaders/Backh oes Graders Diesel Tractors/Loaders/Backh oes Graders Diesel Tractors/Loaders/Backh oes Rubber Tired Dozers Diesel Tractors/Loaders/Backh oes Cranes Diesel Forklifts Diesel Tractors/Loaders/Backh oes Cement and Mortar Mixers Pavers Diesel Rollers Diesel Tractors/Loaders/Backh oes Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	Rubber Tired Dozers Diesel Average Tractors/Loaders/Backh oes Graders Diesel Average Tractors/Loaders/Backh oes Graders Diesel Average Tractors/Loaders/Backh oes Graders Diesel Average Rubber Tired Dozers Diesel Average Tractors/Loaders/Backh oes Cranes Diesel Average Forklifts Diesel Average Tractors/Loaders/Backh oes Cement and Mortar Mixers Pavers Diesel Average Rollers Diesel Average Tractors/Loaders/Backh oes Tractors/Loaders/Backh Diesel Average Tractors/Loaders/Backh oes Cement and Mortar Diesel Average Tractors/Loaders/Backh Diesel Average Tractors/Loaders/Backh Diesel Average Tractors/Loaders/Backh Diesel Average Tractors/Loaders/Backh Diesel Average	Rubber Tired Dozers Diesel Average 1.00 Tractors/Loaders/Backh oes Graders Diesel Average 1.00 Tractors/Loaders/Backh oes Graders Diesel Average 1.00 Tractors/Loaders/Backh oes Graders Diesel Average 1.00 Rubber Tired Dozers Diesel Average 1.00 Tractors/Loaders/Backh oes Cranes Diesel Average 1.00 Cranes Diesel Average 1.00 Forklifts Diesel Average 2.00 Tractors/Loaders/Backh oes Cement and Mortar Diesel Average 2.00 Rollers Diesel Average 1.00 Average 2.00 Tractors/Loaders/Backh oes Cement and Mortar Diesel Average 1.00 Rollers Diesel Average 1.00 Average 1.00 Average 1.00 Tractors/Loaders/Backh oes Cement and Mortar Diesel Average 1.00 Rollers Diesel Average 1.00 Tractors/Loaders/Backh Diesel Average 1.00 Rollers Diesel Average 1.00 Tractors/Loaders/Backh Diesel Average 1.00 Tractors/Loaders/Backh Diesel Average 1.00	Saws Diesel Average 1.00 1.00 Tractors/Loaders/Backh oes Diesel Average 2.00 6.00 Graders Diesel Average 1.00 8.00 Tractors/Loaders/Backh oes Diesel Average 1.00 8.00 Graders Diesel Average 1.00 6.00 Rubber Tired Dozers Diesel Average 1.00 6.00 Tractors/Loaders/Backh oes Diesel Average 1.00 7.00 Cranes Diesel Average 2.00 6.00 Tractors/Loaders/Backh oes Diesel Average 2.00 8.00 Cement and Mortar Mixers Diesel Average 4.00 6.00 Pavers Diesel Average 1.00 7.00 Rollers Diesel Average 1.00 7.00 Tractors/Loaders/Backh oes Diesel Average 1.00 7.00	Saws Diesel Average 1.00 1.00 367 Tractors/Loaders/Backh oes Diesel Average 2.00 6.00 84.0 Graders Diesel Average 1.00 8.00 148 Tractors/Loaders/Backh oes Diesel Average 1.00 6.00 84.0 Graders Diesel Average 1.00 6.00 148 Rubber Tired Dozers Diesel Average 1.00 6.00 367 Tractors/Loaders/Backh oes Diesel Average 1.00 7.00 84.0 Cranes Diesel Average 1.00 4.00 367 Forklifts Diesel Average 2.00 6.00 82.0 Tractors/Loaders/Backh oes Diesel Average 2.00 8.00 84.0 Cement and Mortar Mixers Diesel Average 4.00 6.00 10.0 Pavers Diesel Average 1.00 7.00 81.0 Rollers

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	1.00	367	0.40

Demolition	Tractors/Loaders/Backh	Diesel	Average	2.00	6.00	84.0	0.37
	oes						
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	6.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	6.00	367	0.40
Grading	Tractors/Loaders/Backh oes	Diesel	Average	1.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	6.00	82.0	0.20
Building Construction	Tractors/Loaders/Backh oes	Diesel	Average	2.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	4.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	7.00	81.0	0.42
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backh oes	Diesel	Average	1.00	7.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Тгір Туре	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	10.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	_	8.40	HHDT,MHDT
Demolition	Hauling	10.8	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT

Site Preparation	_	_	_	_
Site Preparation	Worker	5.00	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	_	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	7.50	11.7	LDA,LDT1,LDT2
Grading	Vendor	_	8.40	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	13.7	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	6.75	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving	_	_	_	_
Paving	Worker	17.5	11.7	LDA,LDT1,LDT2
Paving	Vendor	_	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	_	_	HHDT
Architectural Coating	_	_	_	_
Architectural Coating	Worker	2.74	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	_	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	_	_	ннот

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	10.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	_	8.40	HHDT,MHDT
Demolition	Hauling	10.8	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	5.00	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	_	8.40	ннот,мнот
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	7.50	11.7	LDA,LDT1,LDT2
Grading	Vendor	_	8.40	ннот,мнот
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	13.7	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	6.75	8.40	ннот,мнот
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving	_	_	_	_
Paving	Worker	17.5	11.7	LDA,LDT1,LDT2
Paving	Vendor	_	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	_	_	HHDT
Architectural Coating	_	_	_	_

Architectural Coating	Worker	2.74	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	_	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	61,785	20,595	_

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)		Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	9,336	_
Site Preparation	_	_	0.50	0.00	_
Grading	_	_	1.50	0.00	_
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
High Turnover (Sit Down Restaurant)	0.00	0%
General Office Building	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
High Turnover (Sit Down Restaurant)	109	109	109	39,943	398	1,025	1,025	210,799
General Office Building	374	374	374	136,362	3,500	3,500	3,500	1,277,631

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
71	1	1	1	1				

High Turnover (Sit Down Restaurant)	79.9	79.9	79.9	29,158	291	748	748	153,883
General Office Building	273	273	273	99,544	2,555	2,555	2,555	932,671

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

R	esidential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0		0.00	61,785	20,595	_

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
High Turnover (Sit Down Restaurant)	240,598	204	0.0330	0.0040	715,351
General Office Building	759,700	204	0.0330	0.0040	852,350

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
High Turnover (Sit Down Restaurant)	240,598	204	0.0330	0.0040	715,351
General Office Building	759,700	204	0.0330	0.0040	852,350

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
High Turnover (Sit Down Restaurant)	1,609,336	0.00
General Office Building	6,378,509	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
High Turnover (Sit Down Restaurant)	1,609,336	0.00
General Office Building	6,378,509	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
High Turnover (Sit Down Restaurant)	63.1	_
General Office Building	33.4	_

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
High Turnover (Sit Down Restaurant)	63.1	_
General Office Building	33.4	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
1.1	71.					

5.15.2. Mitigated

Equipment	Туре	-uel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
-----------	------	-----------	-------------	----------------	---------------	------------	-------------

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

E	quipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
	quipinioni 17po	i doi ijpo	rtumbor por Bay	riouro por Bay	riodio por rodi	110100001101	Loud I doloi

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Appual Hoot Input (MMRtu/yr)
Equipment Type	The Type	Number	Bollet Rating (Wilviblu/III)	(Daily Fleat Hiput (Wilviblu/day)	Allitual Heat Hiput (Wilviblu/yl)

5.17. User Defined

Fuel Type **Equipment Type** 5.18. Vegetation 5.18.1. Land Use Change 5.18.1.1. Unmitigated Vegetation Land Use Type Vegetation Soil Type **Initial Acres** Final Acres 5.18.1.2. Mitigated Vegetation Land Use Type Vegetation Soil Type **Initial Acres** Final Acres 5.18.1. Biomass Cover Type 5.18.1.1. Unmitigated Biomass Cover Type Final Acres Initial Acres 5.18.1.2. Mitigated Biomass Cover Type Initial Acres Final Acres 5.18.2. Sequestration 5.18.2.1. Unmitigated Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
21.5			

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.57	annual days of extreme heat
Extreme Precipitation	6.10	annual days with precipitation above 20 mm
Sea Level Rise	_	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	2	1	1	3
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	10.6
AQ-PM	24.5
AQ-DPM	79.7
Drinking Water	23.4
Lead Risk Housing	64.0
Pesticides	0.00
Toxic Releases	35.4
Traffic	75.6
Effect Indicators	_
CleanUp Sites	58.2
Groundwater	95.7
Haz Waste Facilities/Generators	94.9
Impaired Water Bodies	83.0
Solid Waste	63.7
Sensitive Population	_
Asthma	51.6
Cardio-vascular	27.2
Low Birth Weights	23.7
Socioeconomic Factor Indicators	_
Education	47.8
Housing	39.7
Linguistic	65.2
Poverty	28.4

Unemployment	18.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.		
Indicator	Result for Project Census Tract	
Economic	_	
Above Poverty	66.93186193	
Employed	79.81521879	
Median HI	57.94944181	
Education	_	
Bachelor's or higher	66.39291672	
High school enrollment	1.591171564	
Preschool enrollment	80.84178109	
Transportation	_	
Auto Access	20.53124599	
Active commuting	91.64634929	
Social	_	
2-parent households	79.72539458	
Voting	76.77402797	
Neighborhood	_	
Alcohol availability	12.19042731	
Park access	81.35506224	
Retail density	97.69023483	
Supermarket access	85.87193635	
Tree canopy	65.69998717	
Housing	_	
Homeownership	28.53843193	

Housing habitability	32.54202489
Low-inc homeowner severe housing cost burden	37.41819582
Low-inc renter severe housing cost burden	82.29180033
Uncrowded housing	40.60053895
Health Outcomes	_
Insured adults	29.96278712
Arthritis	17.5
Asthma ER Admissions	42.4
High Blood Pressure	37.6
Cancer (excluding skin)	12.2
Asthma	72.9
Coronary Heart Disease	21.3
Chronic Obstructive Pulmonary Disease	47.8
Diagnosed Diabetes	58.5
Life Expectancy at Birth	68.2
Cognitively Disabled	29.3
Physically Disabled	54.0
Heart Attack ER Admissions	91.9
Mental Health Not Good	73.6
Chronic Kidney Disease	27.1
Obesity	70.8
Pedestrian Injuries	98.2
Physical Health Not Good	60.5
Stroke	29.9
Health Risk Behaviors	_
Binge Drinking	61.9
Current Smoker	74.7

No Leisure Time for Physical Activity	54.9
	UT.U
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	32.3
Children	55.0
Elderly	13.4
English Speaking	26.0
Foreign-born	78.6
Outdoor Workers	23.3
Climate Change Adaptive Capacity	_
Impervious Surface Cover	13.7
Traffic Density	75.4
Traffic Access	72.4
Other Indices	_
Hardship	46.0
Other Decision Support	_
2016 Voting	77.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	48.0
Healthy Places Index Score for Project Location (b)	62.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	lot acreage updated to match the project
Construction: Construction Phases	Construction timing updated to match information provided by David J Powers. Building construction, paving and painting assumed to occur simultaneously.
Operations: Vehicle Data	Trips updated to match information provided by David J Powers.

ATTACHMENT B

CalEEMod Output Files – Greenhouse Gas Emissions – Existing Conditions

South B Street Mixed Use- EXISTING Detailed Report

Table of Contents

- 1. Basic Project Information
 - 1.1. Basic Project Information
 - 1.2. Land Use Types
 - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
 - 4.1. Mobile Emissions by Land Use
 - 4.1.1. Unmitigated
 - 4.2. Energy
 - 4.2.1. Electricity Emissions By Land Use Unmitigated
 - 4.2.3. Natural Gas Emissions By Land Use Unmitigated
 - 4.3. Area Emissions by Source

- 4.3.1. Unmitigated
- 4.4. Water Emissions by Land Use
 - 4.4.1. Unmitigated
- 4.5. Waste Emissions by Land Use
 - 4.5.1. Unmitigated
- 4.6. Refrigerant Emissions by Land Use
 - 4.6.1. Unmitigated
- 4.7. Offroad Emissions By Equipment Type
 - 4.7.1. Unmitigated
- 4.8. Stationary Emissions By Equipment Type
 - 4.8.1. Unmitigated
- 4.9. User Defined Emissions By Equipment Type
 - 4.9.1. Unmitigated
- 4.10. Soil Carbon Accumulation By Vegetation Type
 - 4.10.1. Soil Carbon Accumulation By Vegetation Type Unmitigated
 - 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type Unmitigated
 - 4.10.3. Avoided and Sequestered Emissions by Species Unmitigated

- 5. Activity Data
 - 5.9. Operational Mobile Sources
 - 5.9.1. Unmitigated
 - 5.10. Operational Area Sources
 - 5.10.1. Hearths
 - 5.10.1.1. Unmitigated
 - 5.10.2. Architectural Coatings
 - 5.10.3. Landscape Equipment
 - 5.11. Operational Energy Consumption
 - 5.11.1. Unmitigated
 - 5.12. Operational Water and Wastewater Consumption
 - 5.12.1. Unmitigated
 - 5.13. Operational Waste Generation
 - 5.13.1. Unmitigated
 - 5.14. Operational Refrigeration and Air Conditioning Equipment
 - 5.14.1. Unmitigated
 - 5.15. Operational Off-Road Equipment

- 5.15.1. Unmitigated
- 5.16. Stationary Sources
 - 5.16.1. Emergency Generators and Fire Pumps
 - 5.16.2. Process Boilers
- 5.17. User Defined
- 5.18. Vegetation
 - 5.18.1. Land Use Change
 - 5.18.1.1. Unmitigated
 - 5.18.1. Biomass Cover Type
 - 5.18.1.1. Unmitigated
 - 5.18.2. Sequestration
 - 5.18.2.1. Unmitigated
- 6. Climate Risk Detailed Report
 - 6.1. Climate Risk Summary
 - 6.2. Initial Climate Risk Scores
 - 6.3. Adjusted Climate Risk Scores
 - 6.4. Climate Risk Reduction Measures

- 7. Health and Equity Details
 - 7.1. CalEnviroScreen 4.0 Scores
 - 7.2. Healthy Places Index Scores
 - 7.3. Overall Health & Equity Scores
 - 7.4. Health & Equity Measures
 - 7.5. Evaluation Scorecard
 - 7.6. Health & Equity Custom Measures
- 8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	South B Street Mixed Use- EXISTING
Operational Year	2023
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	4.60
Precipitation (days)	16.8
Location	57 S B St, San Mateo, CA 94401, USA
County	San Mateo
City	San Mateo
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1239
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Strip Mall	9.34	1000sqft	0.21	9,336	0.00	_	_	_

Parking Lot	0.11	Acre	0.11	0.11	0.00	_	_	l
· ag =01	• • • • • • • • • • • • • • • • • • • •	7 .0.0	J	• • • • • • • • • • • • • • • • • • • •	0.00			

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T			PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	-	-	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	-
Unmit.	0.37	0.57	0.24	2.87	0.01	0.01	0.57	0.57	0.01	0.14	0.15	6.61	709	715	0.70	0.03	2.64	743
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.30	0.50	0.27	2.42	0.01	< 0.005	0.57	0.57	< 0.005	0.14	0.15	6.61	678	685	0.70	0.03	0.13	711
Average Daily (Max)	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.33	0.53	0.26	2.52	0.01	0.01	0.56	0.57	< 0.005	0.14	0.15	6.61	681	687	0.70	0.03	1.18	714
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.06	0.10	0.05	0.46	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	1.09	113	114	0.12	< 0.005	0.19	118

2.5. Operations Emissions by Sector, Unmitigated

Sector TOG ROG NOx CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R	Sector	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO26
--	--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.30	0.28	0.22	2.45	0.01	< 0.005	0.57	0.57	< 0.005	0.14	0.15	_	641	641	0.02	0.02	2.59	650
Area	0.07	0.29	< 0.005	0.41	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.67	1.67	< 0.005	< 0.005	_	1.68
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	64.0	64.0	0.01	< 0.005	_	64.5
Water	_	_	_	_	_	_	_	_	_	_	_	1.33	2.50	3.83	0.14	< 0.005	_	8.21
Waste	_	_	_	_	_	_	_	_	_	_	_	5.28	0.00	5.28	0.53	0.00	_	18.5
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.06	0.06
Total	0.37	0.57	0.24	2.87	0.01	0.01	0.57	0.57	0.01	0.14	0.15	6.61	709	715	0.70	0.03	2.64	743
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.30	0.27	0.26	2.41	0.01	< 0.005	0.57	0.57	< 0.005	0.14	0.15	_	612	612	0.03	0.02	0.07	620
Area	_	0.23	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	64.0	64.0	0.01	< 0.005	_	64.5
Water	_	_	_	_	_	_	_	_	_	_	_	1.33	2.50	3.83	0.14	< 0.005	_	8.21
Waste	_	_	_	_	_	_	_	_	_	_	_	5.28	0.00	5.28	0.53	0.00	_	18.5
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.06	0.06
Total	0.30	0.50	0.27	2.42	0.01	< 0.005	0.57	0.57	< 0.005	0.14	0.15	6.61	678	685	0.70	0.03	0.13	711
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Mobile	0.29	0.27	0.24	2.31	0.01	< 0.005	0.56	0.57	< 0.005	0.14	0.15	_	613	613	0.03	0.02	1.12	622
Area	0.04	0.26	< 0.005	0.20	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.82	0.82	< 0.005	< 0.005	_	0.83
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	64.0	64.0	0.01	< 0.005	_	64.5
Water	_	_	_	_	_	_	_	_	_	_	_	1.33	2.50	3.83	0.14	< 0.005	_	8.21
Waste	_	_	_	_	_	_	_	_	_	_	_	5.28	0.00	5.28	0.53	0.00	_	18.5
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	0.06	0.06
Total	0.33	0.53	0.26	2.52	0.01	0.01	0.56	0.57	< 0.005	0.14	0.15	6.61	681	687	0.70	0.03	1.18	714

Annual	_	_	_	-	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Mobile	0.05	0.05	0.04	0.42	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	_	102	102	< 0.005	< 0.005	0.18	103
Area	0.01	0.05	< 0.005	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.14	0.14	< 0.005	< 0.005	_	0.14
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	10.6	10.6	< 0.005	< 0.005	_	10.7
Water	_	_	_	_	_	_	_	_	_	_	_	0.22	0.41	0.63	0.02	< 0.005	_	1.36
Waste	_	_	_	_	_	_	_	_	_	_	_	0.87	0.00	0.87	0.09	0.00	_	3.06
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.01	0.01
Total	0.06	0.10	0.05	0.46	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	1.09	113	114	0.12	< 0.005	0.19	118

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	-	_	_	_	-	-	-	_	_	_	_	_	_	-	_	_
Strip Mall	0.30	0.28	0.22	2.45	0.01	< 0.005	0.57	0.57	< 0.005	0.14	0.15	_	641	641	0.02	0.02	2.59	650
Parking Lot	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	0.00
Total	0.30	0.28	0.22	2.45	0.01	< 0.005	0.57	0.57	< 0.005	0.14	0.15	_	641	641	0.02	0.02	2.59	650
Daily, Winter (Max)	_	_	-	_	_	-	_	_	_	_	_	_	_	_	-	_	_	_
Strip Mall	0.30	0.27	0.26	2.41	0.01	< 0.005	0.57	0.57	< 0.005	0.14	0.15	_	612	612	0.03	0.02	0.07	620
Parking Lot	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	0.00

Total	0.30	0.27	0.26	2.41	0.01	< 0.005	0.57	0.57	< 0.005	0.14	0.15	_	612	612	0.03	0.02	0.07	620
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	0.05	0.05	0.04	0.42	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	_	102	102	< 0.005	< 0.005	0.18	103
Parking Lot	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	0.00
Total	0.05	0.05	0.04	0.42	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	_	102	102	< 0.005	< 0.005	0.18	103

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	_	44.6	44.6	0.01	< 0.005	_	45.0
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	2.35	2.35	< 0.005	< 0.005	_	2.37
Total	_	_	_	_	_	_	_	_	_	_	_	_	46.9	46.9	0.01	< 0.005	_	47.4
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	_	44.6	44.6	0.01	< 0.005	_	45.0
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	2.35	2.35	< 0.005	< 0.005	_	2.37
Total	_	_	_	_	_	_	_	_	_	_	_	_	46.9	46.9	0.01	< 0.005	_	47.4
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	_	7.38	7.38	< 0.005	< 0.005	_	7.45
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	0.39	0.39	< 0.005	< 0.005	_	0.39

-	Total	_	_	_	_	_	_	_	_	_	_	_	_	7.77	7.77	< 0.005	< 0.005	_	7.85

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	17.1	17.1	< 0.005	< 0.005	_	17.1
Parking Lot	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
Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	17.1	17.1	< 0.005	< 0.005	_	17.1
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_
Strip Mall	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	17.1	17.1	< 0.005	< 0.005	_	17.1
Parking Lot	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
Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	17.1	17.1	< 0.005	< 0.005	_	17.1
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.82	2.82	< 0.005	< 0.005	_	2.83
Parking Lot	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
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.82	2.82	< 0.005	< 0.005	_	2.83

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	-	_	_	_	-	_	_	_	_	_	_	_	_
Consum er Products	_	0.20	_	_	-	_	-	-	_	_	_	_	_	_	_	-	_	_
Architect ural Coatings	_	0.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.07	0.07	< 0.005	0.41	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.67	1.67	< 0.005	< 0.005	_	1.68
Total	0.07	0.29	< 0.005	0.41	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.67	1.67	< 0.005	< 0.005	_	1.68
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.20	_	_	-	_	-	_	_	_	_	_	_	-	_	_	_	_
Architect ural Coatings	_	0.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	0.23	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Consum er Products	_	0.04	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	< 0.005	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.01	0.01	< 0.005	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.14	0.14	< 0.005	< 0.005	_	0.14

Total	0.01	0.05	< 0.005	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.14	0.14	< 0.005	< 0.005	_	0.14

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T		PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	-	-	-	_	-	-	_	_	_	-	_	-	-	-	_	_	-	-
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	1.33	2.50	3.83	0.14	< 0.005	_	8.21
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	1.33	2.50	3.83	0.14	< 0.005	_	8.21
Daily, Winter (Max)	_	_	-	_	_	-	_	_	-	-	_	-	_	-	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	1.33	2.50	3.83	0.14	< 0.005	_	8.21
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	1.33	2.50	3.83	0.14	< 0.005	_	8.21
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	0.22	0.41	0.63	0.02	< 0.005	_	1.36
Parking Lot	_	_	_	_	_	-	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	0.22	0.41	0.63	0.02	< 0.005	_	1.36

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

		(1.07 0.0.	,	<i>j</i> ,			· · · · · · ·	.c, c.c., .c.	J.J.,	, ,	J		_		_			
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_		_	_	5.28	0.00	5.28	0.53	0.00	_	18.5
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_		<u> </u>	_	5.28	0.00	5.28	0.53	0.00	_	18.5
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_		_	_	5.28	0.00	5.28	0.53	0.00	_	18.5
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	5.28	0.00	5.28	0.53	0.00	_	18.5
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	0.87	0.00	0.87	0.09	0.00	_	3.06
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	0.87	0.00	0.87	0.09	0.00	_	3.06

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.06	0.06
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.06	0.06
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.06	0.06
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.06	0.06
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Strip Mall	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.01	0.01
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.01	0.01

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipme nt Type		ROG		со			PM10D			PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt						PM10E				PM2.5D		BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_

Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetatio n	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

O I I I G I I G		10 (1.07 0.0.	,	<i>y</i> ,, <i>y</i> .	101 GIII10	,	O OO (o, aa,	GGy,	,	a							
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

	TOG	ROG						PM10T		PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
	TOG	RUG	IVUX		302	PIVITUE	PIVITUD	PIVITUT	PIVIZ.3E	PIVIZ.3D	FIVIZ.51	BCOZ	NBCO2	CO21	СП4	INZU	IV.	COZE
Daily, Summer	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
(Max)																		
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	<u> </u>	_	_	<u> </u>	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Strip Mall	86.3	86.3	86.3	31,487	808	808	808	295,011
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	14,004	4,668	287

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Strip Mall	79,776	204	0.0330	0.0040	53,202
Parking Lot	4,197	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Strip Mall	691,541	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

ı	Land Use	Waste (ton/year)	Cogeneration (kWh/year)
5	Strip Mall	9.80	_
ı	Parking Lot	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type Fuel Type Engine Tier Number per Doy House Per Dd	Haranayyar Lood Foster
Equipment Type Fuel Type Engine Tier Number per Day Hours Per Da	y Horsepower Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

		Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
--	--	----------------	-----------	----------------	---------------	----------------	------------	-------------

5.16.2. Process Boilers

Equipment Type Fuel Type Number Boiler Rating (MMBtu/hr) Daily Heat Input (MMBtu/day) Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

 Vegetation Land Use Type
 Vegetation Soil Type
 Initial Acres
 Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Final Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.57	annual days of extreme heat
Extreme Precipitation	6.10	annual days with precipitation above 20 mm
Sea Level Rise	_	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about 3/4 an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	2	1	1	3
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	10.6
AQ-PM	24.5
AQ-DPM	79.7
Drinking Water	23.4
Lead Risk Housing	64.0

Pesticides	0.00
Toxic Releases	35.4
Traffic	75.6
Effect Indicators	
CleanUp Sites	58.2
Groundwater	95.7
Haz Waste Facilities/Generators	94.9
Impaired Water Bodies	83.0
Solid Waste	63.7
Sensitive Population	
Asthma	51.6
Cardio-vascular	27.2
Low Birth Weights	23.7
Socioeconomic Factor Indicators	_
Education	47.8
Housing	39.7
Linguistic	65.2
Poverty	28.4
Unemployment	18.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	_
Above Poverty	66.93186193
Employed	79.81521879
Median HI	57.94944181

_
66.39291672
1.591171564
80.84178109
_
20.53124599
91.64634929
_
79.72539458
76.77402797
_
12.19042731
81.35506224
97.69023483
85.87193635
65.69998717
_
28.53843193
32.54202489
37.41819582
82.29180033
40.60053895
_
29.96278712
17.5
42.4
37.6

12.2
72.9
21.3
47.8
58.5
68.2
29.3
54.0
91.9
73.6
27.1
70.8
98.2
60.5
29.9
_
61.9
74.7
54.9
_
0.0
32.3
55.0
13.4
26.0
78.6
23.3

Climate Change Adaptive Capacity	_
Impervious Surface Cover	13.7
Traffic Density	75.4
Traffic Access	72.4
Other Indices	_
Hardship	46.0
Other Decision Support	_
2016 Voting	77.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	48.0
Healthy Places Index Score for Project Location (b)	62.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Screen	Justification
Land Use	Lot acreage of parking updated to match square footage of project site.
Operations: Vehicle Data	Trips updated to reflect numbers provided by David J Powers