Air Quality & Greenhouse Gas Emissions Assessment Triple Crown Cannabis Research and Development Center Project

City of Colusa, California

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LIST OF ATTACHMENTS

Attachment A - CalEEMod Output File for Air Quality Emissions and Greenhouse Gas Emissions

LIST OF ACRONYMS AND ABBREVIATIONS

μg/m³	Micrograms per cubic meter; ppm = parts per million
1992 CO Plan	1992 Federal Attainment Plan for Carbon Monoxide

2021 AQAP Northern Sacramento Valley Planning Area 2021 Triennial Air Quality

Attainment Plan

AB Assembly Bill

ATCM airborne toxics control measure

CAA Clean Air Act

CAAQS California Ambient Air Quality Standards
CalEEMod California Emissions Estimator Model

CAPCOA California Air Pollution Control Officers Association

CARB California Air Resources Board

CCAA California Clean Air Act

CCAPCD Colusa County Air Pollution Control District

CEQA California Environmental Quality Act

CH₄ Methane City Colusa

CO Carbon monoxide CO₂ Carbon dioxide

CO₂e Carbon dioxide equivalents DPM Diesel particulate matter

EO Executive Order

GHG Greenhouse gas emissions

HVAC Heating, Ventilation, and Air Conditioning
IPCC Intergovernmental Panel on Climate Change

N₂O Nitrous oxide

LIST OF ACRONYMS AND ABBREVIATIONS

NAAQS National Ambient Air Quality Standards

 NO_2 Nitrogen dioxide NO_x Nitrous oxides

NSVAB Northern Sacramento Valley Air Basin

OEHHA Office of Environmental Health Hazard Assessment

O٦ Ozone

PG&E Pacific Gas & Electric Company

ppm parts per million

 PM_{10} Coarse particulate matter $PM_{2.5}$ Fine particulate matter PM Particulate Matter

Project Triple Crown Cannabis Research and Development Center Project

ROG Reactive organic gases

SB Senate Bill SF **Square Feet**

SIP State Implementation Plan

SOx Sulfur oxides Sulfur dioxide SO_2

TACs Toxic air contaminants VOC Volatile organic compounds ZEV Zero-Emission Vehicles

1.0 INTRODUCTION

This report documents the results of an Air Quality and Greenhouse Gas (GHG) Emissions Assessment completed for the Triple Crown Cannabis Research and Development Center Project (Project), which proposes the construction and operation of a 2,120,000-square-foot cannabis research and development business park, along with associated facilities and infrastructure, on 86 acres in the City of Colusa. Regional and local existing conditions are presented, along with pertinent emissions standards and regulations. The purpose of this assessment is to estimate criteria air pollutants and GHG emissions attributable to the Project and to determine the level of impact the Project would have on the environment.

1.1 Location and Setting

The Proposed Project is located on an approximately 86-acre parcel situated at the northwestern edge of the City of Colusa (City) in Colusa County, California. The Site is bordered by the City of Colusa's Wastewater Treatment Plant to the west and by agricultural land to the north, south, and east. The Site is currently undeveloped, generally flat, with an elevation of approximately 55 feet above mean sea level and has historically been used for row crop agriculture.

The Project Site is proposed to be annexed into the City limits and subdivided into 10 parcels through a tentative parcel map. Utility services, including domestic water, sewer, electricity, and natural gas, will be provided by the City of Colusa and Pacific Gas & Electric (PG&E). The nearest roadway access is via Will South Green Road to the north, with a planned connection to State Route 20. An abandoned railroad line lies approximately 450 feet northeast of the Project Site.

1.2 Project Description

The Project Applicant proposes the phased construction and operation of the Triple Crown Cannabis Business Park, a cannabis research, development, and production campus encompassing approximately 2,120,000 square feet (SF) of floor area and 1,900 parking spaces at full buildout. The Project will include ten energy-efficient buildings dedicated to indoor cannabis cultivation, processing, product manufacturing, distribution, research and development, and administrative functions. The Project also includes a non-storefront (delivery-only) dispensary, employee facilities, secure parking areas, and utility infrastructure.

The Project would be constructed in five distinct phases over an estimated 5-year period. Each phase will include the construction of two buildings totaling 440,000 SF and 380 parking spaces and include combination of cultivation facilities, processing and trimming spaces, administrative offices, research labs, and support infrastructure. Key program elements include:

- Indoor cannabis cultivation buildings optimized for climate control, fertigation, and pest management.
- Manufacturing facilities for cannabis product infusion and packaging.
- A distribution and warehousing facility with staging, loading bays, and fleet operations.
- A research and development center with laboratories and training facilities.

- A nursery facility dedicated to plant genetics and propagation.
- Non-storefront delivery facilities for retail product distribution.
- Employee support spaces including lounges, restrooms, and food service areas.

At full operation, the business park is expected to support up to 310 full-time employees across three daily shifts as well as twenty daily deliveries associated with the non-storefront retail dispensary.

2.0 AIR QUALITY

2.1 Air Quality Setting

Air quality in a region is determined by its topography, meteorology, and existing air pollutant sources. These factors are discussed below, along with the current regulatory structure that applies to the Colusa County portion of the Northern Sacramento Valley Air Basin (NSVAB), which encompasses the Project Site.

Ambient air quality is commonly characterized by climate conditions, the meteorological influences on air quality, and the quantity and type of pollutants released. The air basin is subject to a combination of topographical and climatic factors that reduce the potential for high levels of regional and local air pollutants. The following section describes the pertinent characteristics of the air basin and provides an overview of the physical conditions affecting pollutant dispersion in the Project Area.

2.1.1 Northern Sacramento Valley Air Basin

The California Air Resources Board (CARB) divides the state into air basins that share similar meteorological and topographical features. The City of Colusa lies in the NSVAB, which includes Sutter, Yuba, Colusa, Butte, Glenn, Tehama, and Shasta counties. The NSVAB is bounded on the north and west by the Coastal Mountain Range and on the east by the southern end of the Cascade Mountain Range and the northern end of the Sierra Nevada. These mountain ranges reach heights in excess of 6,000 feet above mean sea level, with individual peaks rising much higher. The mountains form a substantial physical barrier to locally created pollution as well as to pollution transported northward on prevailing winds from the Sacramento metropolitan area.

The environmental conditions of Colusa County are conducive to potentially adverse air quality conditions. The basin area traps pollutants between two mountain ranges to the east and the west. This problem is exacerbated by a temperature inversion layer that traps air at lower levels below an overlying layer of warmer air. Prevailing winds in the area are generally from the south and southwest. Sea breezes flow over the San Francisco Bay Area and into the Sacramento Valley, transporting pollutants from the large urban areas.

2.1.2 Criteria Air Pollutants

Criteria air pollutants are defined as those pollutants for which the federal and state governments have established air quality standards for outdoor or ambient concentrations to protect public health with a determined margin of safety. Ozone (O₃), coarse particulate matter (PM₁₀), and fine particulate matter (PM_{2.5}) are generally considered to be regional pollutants because they or their precursors affect air quality on a regional scale. Pollutants such as carbon monoxide (CO), nitrogen dioxide (NO₂), and sulfur dioxide (SO₂) are considered to be local pollutants because they tend to accumulate in the air locally. Particulate matter (PM) is also considered a local pollutant. Health effects commonly associated with criteria pollutants are summarized in Table 2-1.

Table 2-1. Cr	Table 2-1. Criteria Air Pollutants - Summary of Common Sources and Effects					
Pollutant	Major Manmade Sources	Human Health & Welfare Effects				
СО	An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.				
NO ₂	A reddish-brown gas formed during fuel combustion for motor vehicles, energy utilities and industrial sources.	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Causes brown discoloration of the atmosphere.				
O ₃	Formed by a chemical reaction between reactive organic gases (ROGs) and nitrogen oxides (NO _x) in the presence of sunlight. Common sources of these precursor pollutants include motor vehicle exhaust, industrial emissions, solvents, paints and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield.				
PM ₁₀ & PM _{2.5}	Power plants, steel mills, chemical plants, unpaved roads and parking lots, woodburning stoves and fireplaces, automobiles and others.	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).				
SO ₂	A colorless, nonflammable gas formed when fuel containing sulfur is burned. Examples are refineries, cement manufacturing, and locomotives.	Respiratory irritant. Aggravates lung and heart problems. Can damage crops and natural vegetation. Impairs visibility.				

Source: California Air Pollution Control Officers Association (CAPCOA 2013)

2.1.2.1 Carbon Monoxide

CO in the urban environment is associated primarily with the incomplete combustion of fossil fuels in motor vehicles. CO combines with hemoglobin in the bloodstream and reduces the amount of oxygen that can be circulated through the body. High CO concentrations can cause headaches, aggravate cardiovascular disease and impair central nervous system functions. CO concentrations can vary greatly over comparatively short distances. Relatively high concentrations of CO are typically found near crowded intersections and along heavy roadways with slow moving traffic. Even under the most severe meteorological and traffic conditions, high concentrations of CO are limited to locations within relatively short distances of the source. Overall CO emissions are decreasing as a result of the Federal Motor Vehicle Control Program, which has mandated increasingly lower emission levels for vehicles manufactured since 1973. CO levels in the NSVAB are in compliance with the state and federal one- and eight-hour standards.

2.1.2.2 Nitrogen Oxides

Nitrogen gas comprises about 80 percent of the air and is naturally occurring. At high temperatures and under certain conditions, nitrogen can combine with oxygen to form several different gaseous compounds collectively called nitric oxides (NO_x). Motor vehicle emissions are the main source of NO_x in urban areas. NO_x is very toxic to animals and humans because of its ability to form nitric acid with water in the eyes, lungs, mucus membrane, and skin. In animals, long-term exposure to NO_x increases susceptibility to respiratory infections, and lowering resistance to such diseases as pneumonia and influenza. Laboratory studies show that susceptible humans, such as asthmatics, who are exposed to high concentrations can suffer from lung irritation or possible lung damage. Precursors of NO_x , such as NO_x and NO_x , attribute to the formation of O_x and $PM_{2.5}$. Epidemiological studies have also shown associations between NO_x concentrations and daily mortality from respiratory and cardiovascular causes and with hospital admissions for respiratory conditions.

2.1.2.3 Ozone

 O_3 is a secondary pollutant, meaning it is not directly emitted. It is formed when volatile organic compounds (VOCs) or ROGs and NO_x undergo photochemical reactions that occur only in the presence of sunlight. The primary source of ROG emissions is unburned hydrocarbons in motor vehicle and other internal combustion engine exhaust. NO_x forms as a result of the combustion process, most notably due to the operation of motor vehicles. Sunlight and hot weather cause ground-level O_3 to form. Ground-level O_3 is the primary constituent of smog. Because O_3 formation occurs over extended periods of time, both O_3 and its precursors are transported by wind and high O_3 concentrations can occur in areas well away from sources of its constituent pollutants.

People with lung disease, children, older adults, and people who are active can be affected when O_3 levels exceed ambient air quality standards. Numerous scientific studies have linked ground-level O_3 exposure to a variety of problems including lung irritation, difficult breathing, permanent lung damage to those with repeated exposure, and respiratory illnesses.

2.1.2.4 Particulate Matter

PM includes both aerosols and solid particulates of a wide range of sizes and composition. Of concern are those particles smaller than or equal to 10 microns in diameter size (PM₁₀) and small than or equal to 2.5 microns in diameter (PM_{2.5}). Smaller particulates are of greater concern because they can penetrate deeper into the lungs than larger particles. PM₁₀ is generally emitted directly as a result of mechanical processes that crush or grind larger particles or form the resuspension of dust, typically through construction activities and vehicular travel. PM₁₀ generally settles out of the atmosphere rapidly and is not readily transported over large distances. PM_{2.5} is directly emitted in combustion exhaust and is formed in atmospheric reactions between various gaseous pollutants, including NO_x, sulfur oxides (SO_x) and VOCs. PM_{2.5} can remain suspended in the atmosphere for days and/or weeks and can be transported long distances.

The principal health effects of airborne PM are on the respiratory system. Short-term exposure of high PM_{2.5} and PM₁₀ levels are associated with premature mortality and increased hospital admissions and emergency room visits. Long-term exposure is associated with premature mortality and chronic respiratory disease.

According to the USEPA, some people are much more sensitive than others to breathing PM₁₀ and PM_{2.5}. People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worse illnesses; people with bronchitis can expect aggravated symptoms; and children may experience decline in lung function due to breathing in PM₁₀ and PM_{2.5}. Other groups considered sensitive include smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive because many breathe through their mouths.

2.1.3 Toxic Air Contaminants

In addition to the criteria pollutants discussed above, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are considered either carcinogenic or noncarcinogenic based on the nature of the health effects associated with exposure to the pollutant. For regulatory purposes, carcinogenic TACs are assumed to have no safe threshold below which health impacts would not occur, and cancer risk is expressed as excess cancer cases per one million exposed individuals. Noncarcinogenic TACs differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

There are many different types of TACs, with varying degrees of toxicity. Sources of TACs include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Public exposure to TACs can result from emissions from normal operations, as well as from accidental releases of hazardous materials during upset conditions. The health effects of TACs include cancer, birth defects, neurological damage, and death.

CARB identified diesel particulate matter (DPM) as a TAC. DPM differs from other TACs in that it is not a single substance but rather a complex mixture of hundreds of substances. Diesel exhaust is a complex mixture of particles and gases produced when an engine burns diesel fuel. DPM is a concern because it causes lung cancer; many compounds found in diesel exhaust are carcinogenic. DPM includes the particle-phase constituents in diesel exhaust. The chemical composition and particle sizes of DPM vary between different engine types (heavy-duty, light-duty), engine operating conditions (idle, accelerate, decelerate), fuel formulations (high/low sulfur fuel), and the year of the engine (USEPA 2002). Some short-term (acute) effects of diesel exhaust include eye, nose, throat, and lung irritation, and diesel exhaust can cause coughs, headaches, light-headedness, and nausea. DPM poses the greatest health risk among the TACs; due to their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung.

2.1.4 Ambient Air Quality

Ambient air quality at the Project Site can be inferred from ambient air quality measurements conducted at nearby air quality monitoring stations. CARB maintains more than 60 monitoring stations throughout California. O₃, PM₁₀ and PM_{2.5} are the pollutant species most potently affecting the Project region. Colusa-Sunrise Boulevard air quality monitoring station (100 Sunrise Boulevard, Colusa) monitors ambient concentrations of O₃, PM_{2.5} and PM₁₀. Ambient emission concentrations will vary due to localized variations

in emission sources and climate and should be considered "generally" representative of ambient concentrations in the Project Area.

Table 2-2 summarizes the published data concerning O_3 , PM_{10} and $PM_{2.5}$ since 2021 for each year that the monitoring data is provided.

able 2-2. Summary of Ambient Air Quality Dat	ta		
Pollutant Standards	2021	2022	2023
) ₃			
Max 1-hour concentration (ppm)	0.074	0.068	0.072
Max 8-hour concentration (ppm) (state/federal)	0.064 / 0.064	0.063 / 0.062	0.065 / 0.064
Number of days above 1-hour standard (state)	0	0	0
Number of days above 8-hour standard (state/federal)	0/0	0/0	0/0
PM ₁₀			
Max 24-hour concentration (μg/m³) (state/federal)	183.7 / 184.5	76.0 / 75.2	79.5 / 79.1
Number of days above 24-hour standard (state/federal)	48.3 / 1.0	17.0 / 0	*/*
PM _{2.5}			
Max 24-hour concentration (μg/m³) (state/federal)	86.6 / 86.6	37.0 / 37.0	32.5 / 32.5
Number of days above federal 24-hour standard	*	1.0	*

Source: CARB 2024a

Notes: $\mu g/m^3 = micrograms per cubic meter; ppm = parts per million$

The USEPA and CARB designate air basins or portions of air basins and counties as being in "attainment" or "nonattainment" for each of the criteria pollutants. Areas that do not meet the standards are classified as nonattainment areas. The National Ambient Air Quality Standards (NAAQS) (other than O₃, PM₁₀ and PM_{2.5} and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. The NAAQS for O₃, PM₁₀, and PM_{2.5} are based on statistical calculations over one- to three-year periods, depending on the pollutant. The California Ambient Air Quality Standards (CAAQS) are not to be exceeded during a three-year period. The attainment status for the Colusa County portion of the NSVAB, which encompasses the Project Site, is included in Table 2-3.

^{* =} Insufficient data available

Table 2-3. Attainment Status of Criteria Pollutants in the Colusa County Portion of the NSVAB					
Pollutant State Designation Federal Desig					
O ₃	Attainment	Unclassified/Attainment			
PM ₁₀	Nonattainment	Unclassified			
PM _{2.5}	Attainment	Unclassified/Attainment			
СО	Unclassified	Unclassified/Attainment			
NO ₂	Attainment	Unclassified/Attainment			
SO ₂	Attainment	Unclassified/Attainment			

Source: CARB 2023

The determination of whether an area meets the state and federal standards is based on air quality monitoring data. Some areas are unclassified, which means there is insufficient monitoring data for determining attainment or nonattainment. Unclassified areas are typically treated as being in attainment. Because the attainment/nonattainment designation is pollutant-specific, an area may be classified as nonattainment for one pollutant and attainment for another. Similarly, because the state and federal standards differ, an area could be classified as attainment for the federal standards of a pollutant and as nonattainment for the state standards of the same pollutant. The region is designated as a nonattainment area for the state standard for PM₁₀ and is designated as unclassified/attainment for all federal standards (CARB 2023).

2.1.5 Sensitive Receptors

Sensitive receptors are defined as facilities or land uses that include members of the population who are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers. CARB has identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, athletes, and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis.

The Project Area is rural, with minimal nearby sensitive land uses, and located adjacent to the City of Colusa's Wastewater Treatment Plant and agricultural land. The nearest sensitive receptor is a rural residence located northeast of the Proposed Project approximately 1,277 feet (0.24 mile) distant.

2.2 Regulatory Framework

2.2.1 Federal

2.2.1.1 Clean Air Act

The Clean Air Act (CAA) of 1970 and the CAA Amendments of 1971 required the USEPA to establish the NAAQS, with states retaining the option to adopt more stringent standards or to include other specific pollutants.

These standards are the levels of air quality considered safe, with an adequate margin of safety, to protect public health and welfare. They are designed to protect those "sensitive receptors" most susceptible to further respiratory distress such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

The USEPA has classified air basins (or portions thereof) as being in attainment, nonattainment, or unclassified for each criteria air pollutant, based on whether or not the NAAQS have been achieved. If an area is designated unclassified, it is because inadequate air quality data were available as a basis for a nonattainment or attainment designation. Table 2-3 lists the federal attainment status of the NSVAB for the criteria pollutants.

2.2.2 **State**

2.2.2.1 California Clean Air Act

The California Clean Air Act (CCAA) allows the State to adopt ambient air quality standards and other regulations provided that they are at least as stringent as federal standards. CARB, a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California, including setting the CAAQS. CARB also conducts research, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions. CARB also has primary responsibility for the development of California's State Implementation Plan (SIP), for which it works closely with the federal government and the local air districts.

2.2.2.2 California State Implementation Plan

The federal CAA (and its subsequent amendments) requires each state to prepare an air quality control plan referred to as the SIP. The SIP is a living document that is periodically modified to reflect the latest emissions inventories, plans, and rules and regulations of air basins as reported by the agencies with jurisdiction over them. The CAA Amendments dictate that states containing areas violating the NAAQS revise their SIPs to include extra control measures to reduce air pollution. The SIP includes strategies and control measures to

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attain the NAAQS by deadlines established by the CAA. The USEPA has the responsibility to review all SIPs to determine if they conform to the requirements of the CAA.

State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB then forwards SIP revisions to the USEPA for approval and publication in the Federal Register. The Colusa County Air Pollution Control District (CCAPCD) is the agency primarily responsible for ensuring that NAAQS and CAAQS are not exceeded and that air quality conditions are maintained in the Colusa County portion of the NSVAB. In an attempt to achieve NAAQS and CAAQS and maintain air quality, the air district, in coordination with the other air districts of the NSVAB, has completed several air quality attainment plans and reports, which together constitute the SIP for the NSVAB. Specifically, all of the air districts in the NSVAB including the CCAPCD prepared an air quality attainment plan for O₃ in 1994. Updated every three years since adoption, the current *Northern Sacramento Valley Planning Area 2021 Triennial Air Quality Attainment Plan* (2021 AQAP) includes forecast ROG and NO_x emissions (O₃ precursors) for the entire NSVAB through the year 2025. The 2021 AQAP provides local guidance for air basins to achieve attainment of the California ambient air quality O₃ standard.

2.2.2.3 Tanner Air Toxics Act & Air Toxics "Hot Spots" Information and Assessment Act

CARB's statewide comprehensive air toxics program was established in 1983 with Assembly Bill (AB) 1807, the Toxic Air Contaminant Identification and Control Act (Tanner Air Toxics Act of 1983). AB 1807 created California's program to reduce exposure to air toxics and sets forth a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an airborne toxics control measure (ATCM) for sources that emit designated TACs. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology to minimize emissions.

CARB also administers the State's mobile source emissions control program and oversees air quality programs established by state statute, such as AB 2588, the Air Toxics "Hot Spots" Information and Assessment Act of 1987. Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High priority facilities are required to perform a health risk assessment (HRA) and, if specific thresholds are exceeded, required to communicate the results to the public in the form of notices and public meetings. In September 1992, the "Hot Spots" Act was amended by Senate Bill (SB) 1731, which required facilities that pose a significant health risk to the community to reduce their risk through a risk management plan.

2.2.3 Local

2.2.3.1 Colusa County Air Pollution Control District

In the City of Colusa, the air quality regulating authority is the CCAPCD, which adopts and enforces controls on stationary sources of air pollutants through its permit and inspection programs. The district also regulates agricultural burning. Other responsibilities include monitoring air quality, preparing clean air

plans, and responding to citizen complaints concerning air quality. The CCAPCD develops regulations to improve air quality and protect the health and welfare of Colusa County residents and their environment.

The following is a list of noteworthy CCAPCD rules and regulations that are required of activities associated with the Proposed Project:

- **Rule 200 (Nuisance)** This rule prohibits the discharge from any non-vehicular source such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property.
- Rule 201 (Visible Emissions) As provided by Section 41701 of the California Health and Safety Code, a person shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminants for a period or periods aggregating more than three minutes in any one hour which is as dark or darker in shade as that designated as No. 2 on the Ringelmann Chart as published by the U.S. Bureau of Mines.
- **Rule 230 (Architectural Coatings)** This rule requires manufacturers, distributors, and users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings by placing limits on the VOC content of various coating categories.
- Rule 231 (Cutback and Emulsified Asphalt) –The purpose of this Rule is to limit emissions of volatile organic compounds (VOCs) from the use of cutback and emulsified asphalt in paving, construction, or maintenance of parking lots, driveways, streets, and highways. This rule prohibits the use or application for paving, construction or maintenance of parking lots, driveways, streets, or highways any rapid or medium cure cutback asphalt or slow cure cutback asphalt containing more than 0.5 percent by volume of VOCs which evaporate at 260°C (500°F) or less. This rule also prohibits any emulsified asphalt material containing more than 3.0 percent by volume of VOCs which evaporate at 260°C (500°F) or less.
- Rule 252 (Stationary Internal Combustion Engines) To limit emissions of NOx and CO from stationary internal combustion engines any gaseous, diesel, or any other liquid-fueled stationary internal combustion engine within Colusa County shall not be operated in a manner that results in emissions exceeding limits established by the CCAPCD.
- Rule 430 (New Source Review) The CCAPCD has established pre-construction review requirements for new and modified stationary sources of air pollution in order to analyze air quality impacts and insure that the operation of such sources does not interfere with the attainment or maintenance of ambient air quality standards. This rule applies to all new and modified stationary sources which are subject to CCAPCD permit requirements and, after construction, emit or may emit any affected pollutants. Rule 430 provides for no net increase in emissions, pursuant to Section 40918 of the California Health & Safety Code (HSC), from new or modified stationary sources which emit, or have the potential to emit, 25 tons per year or more of any non-attainment pollutant or its precursors.

Rule 431 (Emission Reduction Credits and Banking) – This rule provides a mechanism for permitted and non-permitted emission sources to deposit, transfer, and use Emission Reduction Credits (ERCs) as offsets as allowed by applicable laws and regulations. All uses of emission reductions that are required under the CCAPCD's Rule 430 shall be processed in accordance with this Rule. The provisions of this rule apply to the deposit, transfer, and use of ERCs from stationary sources and open biomass burning sources of air pollution emissions.

2.3 Air Quality Emissions Impact Assessment

2.3.1 Thresholds of Significance

The impact analysis provided below is based on the following California Environmental Quality Act (CEQA) Guidelines Appendix G thresholds of significance. The Project would result in a significant impact to air quality if it would do any of the following:

- 1) Conflict with or obstruct implementation of any applicable air quality plan.
- 2) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors).
- 3) Expose sensitive receptors to substantial pollutant concentrations.
- 4) Result in other emissions (such as those leading to odors adversely affecting a substantial number of people).

Implementation of the Proposed Project could result in air quality impacts during construction and operations. Neither the City of Colusa nor the CCAPCD have established air pollution thresholds under the California Environmental Quality Act (CEQA) for the assessment of air quality impacts. However, CCAPCD staff has recommended that the CEQA documents use CCAPCD Rule 403, *New Source Review*, Best Available Control Technology thresholds as CEQA significance threshold for criteria pollutant emissions. The thresholds of significance are summarized in Table 2-4.

Table 2-4. Significance Thresholds				
Air Pollutant	Average Daily Emissions (pounds per day)			
ROG	25			
NO _x	25			
SO _x	80			
PM ₁₀	80			
СО	500			

Source: CCAPCD 2024

By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size, by itself, to result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's individual emissions exceed its identified significance thresholds, the project would be cumulatively considerable. Projects that do not exceed significance thresholds would not be considered cumulatively considerable.

2.3.2 Methodology

Where criteria air pollutant quantification was required, emissions were modeled using the California Emissions Estimator Model (CalEEMod), version 2022.1. CalEEMod is a statewide land use emissions computer model designed to quantify potential criteria pollutant emissions associated with both construction and operations from a variety of land use projects. Project construction-generated air pollutant emissions were calculated using CalEEMod model defaults for Colusa County and Project land use type, and square footage as well as construction phasing, duration, vehicle trips, and equipment provided by the Project applicant. Operational emissions are calculated using CalEEMod model defaults for Colusa County, building and land use square footage estimates identified in the by the Project applicant, and daily trips provided by GCW Engineers and Surveyors (2025).

2.3.3 Impact Analysis

2.3.3.1 Project Construction-Generated Criteria Air Quality Emissions

Regional Construction Significance Analysis

Construction-generated emissions are temporary and short-term but have the potential to represent a significant air quality impact. The basic sources of short-term emissions that will be generated through construction of the Proposed Project would be from ground-disturbing activities and from the operation of the construction vehicles (i.e., trenchers, dump trucks). Construction activities such as excavation and grading operations, construction vehicle traffic, and wind blowing over exposed soils would generate exhaust emissions and fugitive PM emissions that affect local air quality at various times during construction. Effects would be variable depending on the weather, soil conditions, the amount of activity taking place,

and the nature of dust control efforts. The dry climate of the area during the summer months creates a high potential for dust generation.

Construction-generated emissions associated with the Proposed Project are calculated using the CARB-approved CalEEMod computer program, which is designed to model emissions for land use development projects, based on typical construction requirements. Construction was modeled occurring in five phases over five years.

Predicted maximum daily construction-generated emissions for the Proposed Project are summarized in Table 2-5. Construction-generated emissions are short-term and of temporary duration, lasting only as long as construction activities occur, but would be considered a significant air quality impact if the volume of pollutants generated exceeds the applicable thresholds of significance.

Table 2-5. Unmitigated Construction-Related Criteria Air Pollutant Emissions						
Construction Year		Pollutant (pounds per day)				
Construction Year	ROG	NO _x	со	SO ₂	PM ₁₀	
Construction Phase One	5.75	48.00	48.40	0.12	19.50	
Construction Phase Two	5.60	45.10	47.80	0.12	19.40	
Construction Phase Three	5.49	42.70	47.60	0.12	19.30	
Construction Phase Four	5.33	39.70	46.90	0.12	19.20	
Construction Phase Five	5.21	37.70	46.90	0.12	19.10	
Potentially Significant Impact Threshold	25	25	500	80	80	
Exceed Threshold?	No	Yes	No	No	No	

Source: CalEEMod version 2022.1. Refer to Attachment A for Model Data Outputs.

Notes: Emissions taken of the season, summer or winter, with the highest outputs. Project-specific assumptions provided by the applicant were incorporated into the CalEEMod modeling, including the construction schedule (five phases over a five-year period), phase durations, vehicle trip, and construction equipment.

As shown in Table 2-5, criteria air pollutant emissions generated during Project construction would result in significant concentrations of NO_x emissions for every year of construction. Therefore, Mitigation Measure AQ-1 is required in order to reduce NO_x emissions to levels below the significance thresholds.

Mitigation Measure AQ-1 would mandate the use of Tier 4 Certified engines for all dozers, scrapers, and graders used during Project construction. 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, Tier 3, and Tier 4 standards for all equipment with phase-in schedules from 2000 to 2015. As a result, all off-road, diesel-fueled construction equipment manufactured from 2006 to 2015 has been manufactured to Tier 3 standards. The Tier 3 standards can reduce NO_x emissions by as much as 64 percent and PM emissions by as much as 39 percent. On May 11, 2004, the USEPA signed the final rule introducing Tier 4 emission standards, which are currently phased-in over the period of 2008-2015. The Tier 4 standards require that NO_x emissions be further reduced by about 90 percent. This, as a result, decreases ROG emissions as well. All off-road, diesel-fueled construction equipment manufactured in 2015 or later have been manufactured to Tier 4 standards.

Mitigation Measure

- AQ-1: Prior to the certificate of construction-related permits for the Triple Crown Cannabis Research and Development Center Project, the Project Applicant shall demonstrate to the satisfaction of the City of Colusa Planning Division that the following measure would be implemented during Project construction.
 - All dozers, scrapers, and graders used in Project construction shall be CARB Tier 4
 Certified, as set forth in Section 2423 of Title 13 of the California Code of Regulations,
 and Part 89 of Title 40 of the Code of Federal Regulations.

Table 2-6 shows the results of construction emissions with implementation of Mitigation Measure AQ-1.

Table 2-6. Mitigated Construction-Related Criteria Air Pollutant Emissions						
Construction Year	Pollutant (pounds per day)					
	ROG	NO _x	СО	SO ₂	PM ₁₀	
Construction Phase One	2.05	11.90	59.80	0.12	17.90	
Construction Phase Two	2.05	11.60	59.70	0.12	17.90	
Construction Phase Three	2.03	11.20	59.70	0.12	17.90	
Construction Phase Four	2.00	10.80	59.50	0.12	17.90	
Construction Phase Five	1.98	10.50	59.50	0.12	17.90	
Potentially Significant Impact Threshold	25	25	500	80	80	
Exceed Threshold?	No	No	No	No	No	

Source: CalEEMod version 2022.1. Refer to Attachment A for Model Data Outputs.

Notes: Emissions taken of the season, summer or winter, with the highest outputs. Project-specific assumptions provided by the applicant were incorporated into the CalEEMod modeling, including the construction schedule (five phases over a five-year period), phase durations, vehicle trip, and construction equipment. All dozers, scrapers, and graders modeled with Tier 4 certified engines.

As shown in Table 2-6, adherence to Mitigation Measure AQ-1 would ensure that the Proposed Project would be constructed in a manner that daily pollutants would be generated at levels below the potentially significant threshold. With implementation of Mitigation Measure AQ-1, criteria pollutant emissions generated during construction of the Proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard. Further, since the Project's emissions do not exceed significance thresholds, no exceedance of the ambient air quality standards would occur, and no regional health effects from Project criteria pollutants would occur.

2.3.3.2 Project Operations Criteria Air Quality Emissions

Regional Operational Significance Analysis

Implementation of the Project would result in long-term operational emissions of criteria air pollutants such as PM₁₀, PM_{2.5}, CO, and SO₂ as well as O₃ precursors such as ROGs and NO_X. Project-generated increases in emissions would be primarily associated with energy use from cannabis cultivation and mobile sources, including employee and delivery trips to the Project Site. Operational air pollutant emissions were estimated based on the building square footage and water usage data provided by the Project Proponent, along with traffic information from CGW (2025). Long-term operational emissions attributable to the Project are identified in Table 2-7 and compared to the significance threshold.

Table 2-7. Operational Criteria Air Pollutant Emissions						
Emission Course		Pollutant (pounds per day)				
Emission Source	ROG	NO _x	со	SO ₂	PM ₁₀	
Mobile	1.58	0.86	16.00	0.04	4.94	
Area	0.20	0.00	0.00	0.00	0.00	
Energy	1.30	23.60	19.80	0.14	1.79	
Total:	3.08	24.46	35.80	0.18	6.70	
Potentially Significance Threshold	25	25	500	80	80	
Exceed Threshold?	No	No	No	No	No	

Source: CalEEMod version 2022.1. Refer to Attachment A for Model Data Outputs.

Notes: Emissions projections were primarily based on CalEEMod default assumptions for Colusa County, spatial estimates of onsite land uses derived from the Project Site Plan, and daily trip data (832 daily trips) provided by GCW (2025) to inform calculations of operational mobile source emissions. Operational energy-related emissions also account for water demand estimates provided by the Project applicant, including increased usage during the summer months (four months).

As shown in Table 2-7, the Project's emissions would not exceed any thresholds for any criteria air pollutants during operation.

2.3.3.3 Conflict with Air Quality Planning

As part of its enforcement responsibilities, the USEPA requires each state with nonattainment areas to prepare and submit a SIP that demonstrates the means to attain the federal standards. The SIP must integrate federal, state, and local plan components and regulations to identify specific measures to reduce pollution in nonattainment areas, using a combination of performance standards and market-based programs. Similarly, under state law, the CCAA requires an air quality attainment plan to be prepared for areas designated as nonattainment with regard to the federal and state ambient air quality standards. Air quality attainment plans outline emissions limits and control measures to achieve and maintain these standards by the earliest practical date. As previously stated, the Colusa County portion of the NSVAB, which encompasses the Project Site, is classified as attainment for all federal standards. As such, Colusa County is not subject to a SIP.

The CCAPCD attains and maintains air quality conditions in the City of Colusa through a comprehensive program of planning, regulation, enforcement, technical innovation, and promotion of the understanding of air quality issues. In an attempt to achieve and maintain air quality standards, the air district has participated in the preparation of air quality attainment plans and reports. Specifically, all of the air districts in the NSVAB including the CCAPCD, prepared an air quality attainment plan for O₃ in 1994. Updated every three years since adoption, the current *Northern Sacramento Valley Planning Area 2021 Triennial Air Quality Attainment Plan* includes forecast ROG and NO_x emissions (O₃ precursors) for the entire NSVAB. The 2021 AQAP provides local guidance for air basins to achieve and maintain attainment of the California O₃ standard. Pollutant control strategies are based on the latest scientific and technical information and planning assumptions, and updated emission inventory methodologies for various source categories.

A Project would not be consistent with the 2021 AQAP if it would result in an increase in the frequency or severity of existing air quality violations, or cause or contribute to new violations, or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQAP. The Project would not exceed the short-term construction standards (see Table 2-6) or long-term operational standards (see Table 2-7) with implementation of mitigation measure AQ-1.

Therefore, the Project would not conflict with or obstruct reduction measures presented in the 2021 AQAP.

2.3.3.4 Exposure of Sensitive Receptors to Toxic Air Contaminants

As previously described, sensitive receptors are defined as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers. CARB has identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over age 65, children under age 14, athletes, and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis. Sensitive receptors are defined as any residence including private homes, condominiums, apartments, and living quarters, schools, preschools, daycare centers, and health facilities such as hospitals or retirement and nursing homes, long term care hospitals, hospices, prisons, and dormitories or similar live-in housing. The nearest sensitive receptor is a rural residence located northeast of the Proposed Project approximately 1,277 feet (0.24 mile) distant.

Construction-Generated Air Contaminants

Construction-related activities would result in temporary, short-term Proposed Project-generated emissions of DPM, ROG, NOx, CO, and PM₁₀ from the exhaust of off-road, heavy-duty diesel equipment for site preparation (e.g., clearing, grading); truck traffic; paving; and other miscellaneous activities. The Colusa County portion of the NSVAB is listed as an attainment area for the state standard for PM₁₀ (CARB 2023). Thus, PM₁₀ levels in the Colusa County portion of the NSVAB are at unhealthy levels during certain periods. However, as shown in Table 2-6, the Project would not exceed the significance thresholds for any criteria air pollutant emissions, including PM₁₀ with implementation of mitigation measure AQ-1.

The health effects associated with O_3 are generally associated with reduced lung function. O_3 is not emitted directly into the air but is formed through complex chemical reactions between precursor emissions of ROG and NOx in the presence of sunlight. The reactivity of O_3 causes health problems because it damages lung tissue, reduces lung function and sensitizes the lungs to other irritants. Scientific evidence indicates that ambient levels of O_3 not only affect people with impaired respiratory systems, such as asthmatics, but healthy adults and children as well. Exposure to O_3 for several hours at relatively low concentrations has been found to significantly reduce lung function and induce respiratory inflammation in normal, healthy people during exercise. This decrease in lung function generally is accompanied by symptoms including chest pain, coughing, sneezing and pulmonary congestion.

Studies show associations between short-term O_3 exposure and non-accidental mortality, including deaths from respiratory issues. Studies also suggest long-term exposure to O_3 may increase the risk of respiratory-related deaths. The concentration of O_3 at which health effects are observed depends on an individual's sensitivity, level of exertion (i.e., breathing rate), and duration of exposure. Studies show large individual differences in the intensity of symptomatic responses, with one study finding no symptoms to the least responsive individual after a 2-hour exposure to 400 parts per billion of O_3 and a 50 percent decrement in forced airway volume in the most responsive individual. Although the results vary, evidence suggests that sensitive populations (e.g., asthmatics) may be affected on days when the 8-hour maximum O_3 concentration reaches 80 parts per billion. Because the Project would not involve construction activities that would result in O_3 precursor emissions (i.e., ROG or NO_x) in excess of the thresholds with the implementation of AQ-1 the Project is not anticipated to substantially contribute to regional O_3 concentrations and the associated health impacts.

CO tends to be a localized impact associated with congested intersections. In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions. With implementation of AQ-1, the Project would not involve construction activities that would result in CO emissions in excess of the thresholds. Thus, the Project's CO emissions would not contribute to the health effects associated with this pollutant.

Particulate matter (PM₁₀ and PM_{2.5}) contains microscopic solids or liquid droplets that are so small that they can get deep into the lungs and cause serious health problems. Particulate matter exposure has been linked to a variety of problems, including premature death in people with heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory

symptoms such as irritation of the airways, coughing, or difficulty breathing. For construction activity, DPM is the primary TAC of concern. PM₁₀ exhaust is considered a surrogate for DPM as all diesel exhaust is considered to be DPM and it contains PM_{2.5} exhaust as a subset. As with O₃ and NO_x, the Project would not generate emissions of PM₁₀ or PM_{2.5} that would exceed the thresholds within implementation of AQ-1. The increases of these pollutants generated by the Proposed Project would not on their own generate an increase in the number of days exceeding the NAAQS or CAAQS standards. Therefore, PM₁₀ and PM_{2.5} emissions, when combined with the existing PM emitted regionally, would have minimal health effect on people located in the immediate vicinity of the Project Site. Additionally, the Project would be required to comply with Rule 403 for fugitive dust control, as described above, which limits the amount of fugitive dust generated during construction. Accordingly, the Project's PM₁₀ and PM_{2.5} emissions are not expected to cause any increase in related regional health effects for these pollutants.

In summary, Project construction would not result in a potentially significant contribution to regional concentrations of nonattainment pollutants with implementation of mitigation measure AQ-1 and would not result in a significant contribution to the adverse health impacts associated with those pollutants.

Operational Air Contaminants

Operation of the Proposed Project would not result in the development of any substantial sources of air toxics. There are no stationary sources associated with the operations of the Project; nor would the Project attract additional mobile sources that spend long periods queuing and idling at the site. Onsite Project emissions would not result in significant concentrations of pollutants at nearby sensitive receptors. The Project would not have a high carcinogenic or non-carcinogenic risk during operation.

Carbon Monoxide Hot Spots

It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when idling at intersections. Concentrations of CO are a direct function of the number of vehicles, length of delay, and traffic flow conditions. Under certain meteorological conditions, CO concentrations close to congested intersections that experience high levels of traffic and elevated background concentrations may reach unhealthy levels, affecting nearby sensitive receptors. Given the high traffic volume potential, areas of high CO concentrations, or "hot spots," are typically associated with intersections that are projected to operate at unacceptable levels of service during the peak commute hours. It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. However, transport of this criteria pollutant is extremely limited, and CO disperses rapidly with distance from the source under normal meteorological conditions. Furthermore, vehicle emissions standards have become increasingly more stringent in the last 20 years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the NSVAB is designated as in attainment. Detailed modeling of Project-specific CO "hot spots" is not necessary and thus this potential impact is addressed qualitatively.

A CO "hot spot" would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur. The analysis prepared for CO attainment in the

SCAQMD's 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan) in Los Angeles County and a Modeling and Attainment Demonstration prepared by the SCAQMD as part of the 2003 AQMP can be used to demonstrate the potential for CO exceedances of these standards. The SCAQMD is the air pollution control officer for much of southern California. The SCAQMD conducted a CO hot spot analysis as part of the 1992 CO Plan at four busy intersections in Los Angeles County during the peak morning and afternoon time periods. The intersections evaluated included Long Beach Boulevard and Imperial Highway (Lynwood), Wilshire Boulevard and Veteran Avenue (Westwood), Sunset Boulevard and Highland Avenue (Hollywood), and La Cienega Boulevard and Century Boulevard (Inglewood). The busiest intersection evaluated was at Wilshire Boulevard and Veteran Avenue, which has a traffic volume of approximately 100,000 vehicles per day. Despite this level of traffic, the CO analysis concluded that there was no violation of CO standards (SCAQMD 1992). In order to establish a more accurate record of baseline CO concentrations affecting the Los Angeles, a CO "hot spot" analysis was conducted in 2003 at the same four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards. The highest one-hour concentration was measured at 4.6 ppm at Wilshire Boulevard and Veteran Avenue and the highest eight-hour concentration was measured at 8.4 ppm at Long Beach Boulevard and Imperial Highway. Thus, there was no violation of CO standards.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District, the air pollution control officer for the San Francisco Bay Area, concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact.

The Proposed Project is anticipated to result in an approximate maximum of 832 daily trips (GCW 2025). Thus, the Proposed Project would not generate traffic volumes at any intersection of more than 100,000 vehicles per day (or 44,000 vehicles per day) and there is no likelihood of the Proposed Project traffic exceeding CO values.

2.3.3.5 Odors

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

With respect to odors, the human nose is the sole sensing device. The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability to smell minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; in fact, an odor that is offensive to one person (e.g., from a fast-food restaurant) may be perfectly acceptable to another. It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air. When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

During construction, the Proposed Project presents the potential for generation of objectionable odors in the form of diesel exhaust in the immediate vicinity of the site. However, these emissions are short-term in nature and will rapidly dissipate and be diluted by the atmosphere downwind of the emission sources. It is expected that the odors associated with the Project's construction would not be concentrated or stagnant near any of the sensitive receptors. Additionally, odors would be localized and generally confined to the construction area. Therefore, construction odors would not adversely affect a substantial number of people to odor emissions.

Land uses commonly considered to be potential sources of obnoxious odorous emissions include agriculture (farming and livestock), wastewater treatment plants, food processing plants, chemical plants, composting facilities, refineries, landfills, dairies, and fiberglass molding. The Proposed Project does not include any of these types of odor-generating uses. Although cannabis cultivation and processing have the potential to generate odors, these operations would occur entirely indoors within enclosed, climate-controlled structures. Such facilities are typically equipped with odor control systems, including carbon filtration or other air treatment technologies, to prevent the release of noticeable odors beyond the building envelope. As a result, the Proposed Project is not expected to generate objectionable odors that would affect surrounding land uses.

3.0 GREENHOUSE GAS EMISSIONS

3.1 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 carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (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).

Greenhouse Gas	Description
CO ₂	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 petroleum-based products can also lead to CO_2 emissions. The atmospheric lifetime of CO_2 is variable because it is so readily exchanged in the atmosphere. 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 CH4 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 about 12 years. ²
N ₂ O	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 ₂ O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuels, adipic acid production, and nitric acid production. N ₂ O 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 ₂ O is approximately 120 years. ³

Sources: (1) USEPA 2023b; (2) USEPA 2023c; (3) USEPA 2023d

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 CEQA, GHG impacts to global climate change are inherently cumulative.

3.1.1 Sources of Greenhouse Gas Emissions

In 2024, CARB released the 2024 edition of the *California GHG Emissions from 2000 to 2022: trends of Emissions and Other Indicators* report. In 2022, California emitted 371.1 million metric tons of CO₂e. This inventory is 2.4 percent lower than in 2021. The 2022 emissions data shows that the State of California is continuing its established long-term trend of GHG emission declines, despite the anomalous emissions trends from 2019 through 2021, due in large part to the impacts of the COVID-19 pandemic. Overall trends

in the Inventory continue to demonstrate that the carbon intensity of California's economy (the amount of carbon pollution per million dollars of gross state product (GSP)) is declining. California's GSP increased by 0.7 percent in 2022, and emissions per GSP declined by 3.1 percent from 2021 to 2022. Combustion of fossil fuel in the transportation sector was the single largest source of California's GHG emissions in 2022, accounting for approximately 37.7 percent of total GHG emissions in the state. Transportation emissions have decreased 3.6 percent from 2021 levels due to reductions from on-road, rail and, to a lesser extent, intrastate aviation transportation. Emissions from the electricity sector account for 16.1 percent of the Inventory, which is a decrease of 4.1 percent since 2021, despite the growth of in-state solar, wind, and hydropower energy generation. California's industrial sector accounts for the second largest source of the state's GHG emissions in 2022, accounting for 19.6 percent, which saw a decrease of 2 percent since 2021 (CARB 2024b).

3.2 Regulatory Framework

3.2.1 State

3.2.1.1 Executive Order S-3-05

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.

3.2.1.2 Assembly Bill 32 Climate Change Scoping Plan and Updates

In 2006, the California legislature passed 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 GHG emissions in California. The plan focuses on achieving the state's goal of reaching carbon neutrality by 2045 and reducing GHG emissions to 40 percent 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.

3.2.1.3 Senate Bill 32 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 (the other provisions of AB 32 remained unchanged). On December 14, 2017, CARB adopted the 2017 Scoping Plan, which provided a framework for achieving the 2030 target. The 2017 Scoping Plan relies on the continuation and expansion of existing policies and regulations, such as the Cap-and-Trade Program, as well as implementation of recently adopted policies. The 2017 Scoping Plan also placed an increased emphasis on innovation, adoption of existing technology, and strategic investment to support its strategies. As with the 2013 Scoping Plan Update, the 2017 Scoping Plan does not provide project-level thresholds for land use development. Instead, it recommends that local governments adopt policies and locally appropriate quantitative thresholds consistent with Statewide per capita goals of no more than 6 metric tons of CO₂e by 2030 and 2 metric tons of CO₂e by 2050.

3.2.1.4 Assembly Bill 197 of 2016

AB 197 is a bill linked to SB 32 and was signed on September 8, 2016. AB 197 prioritizes efforts to cut GHG emissions in low-income or minority communities. AB 197 requires CARB to make available, and update at least annually, the emissions of GHGs, criteria pollutants, and toxic air contaminants for each facility that reports to CARB and air districts. In addition, AB 197 adds two Members of the Legislature to the CARB board as ex officio, non-voting members and creates the Joint Legislative Committee on Climate Change Policies to ascertain facts and make recommendations to the Legislature and the houses of the Legislature concerning the State's programs, policies, and investments related to climate change.

3.2.1.5 Assembly Bill 1279 of 2022

In September 2022, Governor Brown signed AB 1279, The California Climate Crisis Act, which requires California to achieve carbon neutrality as soon as possible, but no later than 2045, and to achieve and maintain net negative GHG emissions thereafter. AB 1279 also requires that by 2045 statewide anthropogenic GHG emissions be reduced to at least 85 percent below 1990 levels and directs CARB to ensure that its scoping plan identifies and recommends measures to achieve these goals. AB 1279 also directs CARB to identify policies and strategies to enable carbon capture, utilization, and storage and CO₂ removal technologies to meet emission reduction goals. In addition, CARB is required to submit an annual report on progress in achieving the 2022 Scoping Plan's goals.

In response to the passage of AB 1279 and the identification of the 2045 GHG emissions reduction target, CARB published the Final 2022 Climate Change Scoping Plan in November 2022 (2022 Update). The 2022 Update builds upon the framework established by the 2008 Climate Change Scoping Plan and previous updates while identifying a new, technologically feasible, cost-effective, and equity-focused path to achieve California's climate target. The 2022 Update includes policies to achieve a significant reduction in fossil fuel combustion, further reductions in short-lived climate pollutants, support for sustainable development, increased action on natural and working lands to reduce emissions and sequester carbon, and the capture and storage of carbon.

The 2022 Update assesses the progress California is making toward reducing its GHG emissions by at least 40 percent below 1990 levels by 2030, as called for in SB 32 and laid out in the 2017 Scoping Plan; addresses recent legislation and direction from Governor Newsom; extends and expands upon these earlier plans; and implements a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045, as well as taking an additional step of adding carbon neutrality as a science-based guide for California's climate work. As stated in the 2022 Update, "the plan outlines how carbon neutrality can be achieved by taking bold steps to reduce GHGs to meet the anthropogenic emissions target and by expanding actions to capture and store carbon through the State's natural and working lands and using a variety of mechanical approaches." Specifically, the 2022 Update achieves the following:

- Identifies a path to keep California on track to meet its SB 32 GHG reduction target of at least 40 percent below 1990 emissions by 2030.
- Identifies a technologically feasible, cost-effective path to achieve carbon neutrality by 2045 and a reduction in anthropogenic emissions by 85 percent below 1990 levels.
- Focuses on strategies for reducing California's dependency on petroleum to provide consumers with clean energy options that address climate change, improve air quality, and support economic growth and clean sector jobs.
- Integrates equity and protecting California's most impacted communities as driving principles throughout the document.
- Incorporates the contribution of natural and working lands to the State's GHG emissions, as well as their role in achieving carbon neutrality.
- Relies on the most up-to-date science, including the need to deploy all viable tools to address the
 existential threat that climate change presents, including carbon capture and sequestration, as
 well as direct air capture.
- Evaluates the substantial health and economic benefits of taking action.
- Identifies key implementation actions to ensure success.

In addition to reducing emissions from transportation, energy, and industrial sectors, the 2022 Update includes emissions and carbon sequestration in natural and working lands and explores how they contribute to long-term climate goals. Under the Scoping Plan Scenario, California's 2030 emissions are anticipated to be 48 percent below 1990 levels, representing an acceleration of the current SB 32 target. Cap-and-trade regulation continues to play a large factor in the reduction of near-term emissions for meeting the accelerated 2030 reduction target. Every sector of the economy will need to begin to transition in this decade to meet these GHG emissions reduction goals and achieve carbon neutrality no later than 2045. The 2022 Update approaches decarbonization from two perspectives, managing a phasedown of existing energy sources and technologies, as well as increasing, developing, and deploying alternative clean energy sources and technology.

3.2.1.6 Executive Order N-79-20

Governor Gavin Newsom signed an executive order on September 23, 2020, that would phase out sales of new gas-powered passenger cars by 2035 with an additional 10-year transition period for heavy vehicles. The State would not restrict used car sales, nor forbid residents from owning gas-powered vehicles, meaning that the overall reduction in GHG emissions would likely not substantially reduce GHG emissions from vehicles for many years after the ban goes into effect.

3.2.1.7 Senate Bill 100 of 2018

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

3.2.1.8 Senate Bill 1020 of 2022

SB 1020, the Clean Energy, Jobs, and Affordability Act of 2022, adds interim targets to the policy framework originally established in SB 100 to require renewable energy and zero-carbon resources to supply 90 percent of all retail electricity sales by 2035 and 95 percent of all retail electricity sales by 2040. Additionally, the bill requires all state agencies to rely on 100 percent renewable energy and zero-carbon resources to serve their own facilities by 2035. This bill also requires that CARB's Scoping Plan workshops be held in non-attainment areas and requires the California Public Utilities Commission, the California Energy Commission, and CARB to create a joint report on electricity reliability.

3.2.1.9 Senate Bill 375 of 2008

SB 375 set forth a mechanism for coordinating land use and transportation on a regional level for the purpose of reducing GHG emissions. SB 375 was adopted with a goal of reducing fuel consumption and GHG emissions from cars and light trucks. Under SB 375, CARB was required to set GHG reduction targets for each metropolitan region for 2020 and 2035, and each of California's metropolitan planning organizations was responsible to prepare a sustainable communities strategy that demonstrates how the region will meet its GHG reduction target through integrated land use, housing, and transportation planning.

3.2.1.10 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 GHG 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. HVAC Systems: The codes establish requirements for heating, ventilation, and air conditioning (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.

3.3 Greenhouse Gas Emissions Impact Assessment

3.3.1 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 greenhouse gas 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.

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 SB 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 significance of the Project's GHG emissions is evaluated consistent with CEQA Guidelines Section 15064.4(b)(2) by considering whether the Project complies with applicable plans, policies, regulations and requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. Neither the City of Colusa nor the CCAPCD promulgate GHG emission thresholds or have

adopted plans intended to reduce GHG emissions. Therefore, the Project will be assessed for consistency with the 2022 Scoping Plan.

3.3.2 Methodology

Where GHG emission quantification was required, emissions were modeled using CalEEMod, version 2022.1. 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 Colusa County and Project land use type, and square footage as well as construction phasing, duration, vehicle trips, and equipment provided by the Project applicant. Operational GHG emissions are calculated using CalEEMod model defaults for Colusa County, building and land use square footage estimates identified in the by the Project applicant, and daily trips provided by GCW Engineers and Surveyors (2025).

3.3.3 Generation of GHG Emissions

Project Construction

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 3-2 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 3-2. Construction-Related Greenhouse Gas Emissions				
Emissions Source	CO₂e (Metric Tons/ Year)			
Construction Phase One	467			
Construction Phase Two	466			
Construction Phase Three	472			
Construction Phase Four	465			
Construction Phase Five	465			
Total Construction Emissions	2,335			

Source: CalEEMod version 2022.1. Refer to Attachment A for Model Data Outputs.

Notes: Project construction generated GHG emissions were calculated using CalEEMod model defaults for Colusa County. Project-specific assumptions provided by the applicant were incorporated into the CalEEMod modeling, including the construction schedule (five phases over a five-year period), phase durations, vehicle trip, and construction equipment. Construction GHG emissions account for the implementation of mitigation measure AQ-1.

As shown in Table 3-2, Project construction would result in the temporary generation of approximately 2,335 metric tons of CO₂e over the course of construction. These emissions are short-term in nature and will cease entirely once construction is complete. Climate change is a cumulative issue driven by global

emissions over time, short-lived construction emissions are not expected to result in a measurable impact on climate conditions. Moreover, the use of newer equipment and state mandates on construction equipment help minimize construction-related GHG emissions.

Project Operations

Operation of the Project would result in an increase in GHG emissions primarily associated with energy and water sources. Long-term operational GHG emissions attributed to the Project are identified in Table 3-3.

Table 3-3. Operational-Related Greenhouse Gas Emissions	
Emissions Source	CO₂e (Metric Tons/ Year)
Mobile	627
Area	0
Energy	6,784
Water	1,176
Waste	821
Refrigeration	91
Total	9,499

Source: CalEEMod version 2022.1. Refer to Attachment A for Model Data Outputs.

Notes: Emissions projections were primarily based on CalEEMod default assumptions for Colusa County, spatial estimates of onsite land uses derived from the Project Site Plan, and daily trip data (832 daily trips) provided by GCW (2025) to inform calculations of operational mobile source emissions. Operational energy-related emissions also account for water demand estimates provided by the Project applicant, including increased usage during the summer months (four months).

As shown in Table 3-3, the Project would generate 9,499 metric tons of CO₂e annually. Long-term operational GHG emissions would result primarily from electricity use associated with indoor cannabis cultivation. Although these emissions would continue over the life of the Project, GHG emissions are global in nature and any single project's contribution is not expected to cause a measurable impact on climate change. The Project does not include stationary combustion sources or other high-emitting industrial processes. Project operational GHG emissions are not considered substantial in the context of statewide emissions inventories and do not represent a cumulatively considerable contribution to climate change.

3.3.4 Impact Analysis

3.3.4.1 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

CARB's 2022 Scoping Plan sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279. The 2022 Scoping Plan focuses on zero-emission transportation; phasing out use of fossil gas use for heating homes and

buildings; reducing chemical and refrigerants with high global warming potential; providing communities with sustainable options for walking, biking, and public transit; displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen. Unlike the 2017 Scoping Plan, CARB no longer includes a numeric per capita threshold and instead advocates for compliance with a local GHG reduction strategy (i.e., Climate Action Plan) consistent with CEQA Guidelines Section 15183.5.

Statewide strategies to reduce GHG emissions in the latest 2022 Scoping Plan include implementing SB 100, which would achieve 100 percent clean electricity by 2045; achieving 100 percent zero emission vehicle sales in 2035 through Advanced Clean Cars II; and implementing the Advanced Clean Fleets regulation to deploy zero-emission vehicles (ZEV) buses and trucks. Additional transportation policies include the Off-Road Zero-Emission Targeted Manufacturer rule, Clean Off-Road Fleet Recognition Program, In-use Off-Road Diesel-Fueled Fleets Regulation, Clean Off-Road Fleet Recognition Program, and Amendments to the In-use Off-Road Diesel-Fueled Fleets Regulation. The 2022 Scoping Plan would continue to implement SB 375. GHGs would be further reduced through the Cap-and-Trade Program carbon pricing and SB 905. SB 905 requires CARB to create the Carbon Capture, Removal, Utilization, and Storage Program to evaluate, demonstrate, and regulate carbon dioxide removal projects and technology.

GHG reductions are also achieved as a result of State of California energy and water efficiency requirements for new residential developments. These efficiency improvements correspond to reductions in secondary GHG emissions. For example, in California, most of the electricity that powers homes are derived from natural gas combustion. Therefore, energy saving measures, such as Title 24, reduces GHG emissions from the power generation facilities by reducing load demand.

The 2022 Scoping Plan Appendix D provides local jurisdictions with tools to reduce GHGs and assist the state in meeting the ambitious targets set forth in the 2022 Scoping Plan.

The 2022 Scoping Plan Appendix D lists potential actions that support the state's climate goals. However, the 2022 Scoping Plan notes that the applicability and performance of the actions may vary across the regions. The document is organized into two categories (A) examples of plan-level GHG reduction actions that could be implemented by local governments and (B) examples of on-site project design features, mitigation measures, that could be required of individual projects under CEQA, if feasible, when the local jurisdiction is the lead agency.

The Project would include a number of the 2022 Scoping Plan standard conditions and mitigation measures for construction and operation. For example, the 2022 Scoping Plan's construction actions include enforcing idling time restrictions on construction vehicles and requiring construction vehicles to operate highest tier engines commercially available.

As identified in Table 3-4 below, the Project would be consistent with all applicable plan goals and applicable regulatory programs designed to reduce GHG emissions generated by land use projects. The Project would be subject to compliance with all building codes in effect at the time of construction, which include energy conservation measures mandated by California Building Standards Code Title 24 – Energy Efficiency Standards. Because Title 24 standards require energy conservation features in new construction

(e.g., high- efficiency lighting, high-efficiency HVAC systems, thermal insulation, double-glazed windows, water conserving plumbing fixtures), they indirectly regulate and reduce GHG emissions. California's Building Energy Efficiency Standards are updated on an approximately three-year cycle.

As shown in Table 3-3, approximately 78 percent of the Project's emissions are from energy and mobile sources, which would be further reduced by the 2022 Scoping Plan actions described above. The City has no control over vehicle emissions (approximately 7 percent of the Project's total emissions). However, these emissions would decline in the future due to statewide measures, as well as cleaner technology and fleet turnover. Several of the state's plans and policies would contribute to a reduction in the Project's mobile source emissions, including the following:

- CARB's Advanced Clean Truck Regulation: Adopted in June 2020, CARB's Advanced Clean Truck Regulation requires truck manufacturers to transition from diesel trucks and vans to electric zeroemission trucks beginning in 2024. By 2045, every new truck sold in California is required to be zero-emission. The Advanced Clean Truck Regulation accelerates the transition of zero-emission medium-and heavy-duty vehicles from Class 2b to Class 8.
- Executive Order N-79-20: This Executive Order establishes the goal for all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, to be zero-emission by 2035 and all medium and heavy-duty vehicles to be zero-emission by 2045. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new ZEVs "towards the target of 100 percent."
- CARB's Mobile Source Strategy: CARB's Mobile Source Strategy takes an integrated planning approach to identify the level of transition to cleaner mobile source technologies needed to achieve all of California's targets by increasing the adoption of ZEV buses and trucks.
- CARB's Sustainable Freight Action Plan: The Sustainable Freight Action Plan which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks. This Plan applies to all trucks accessing the Project Site and may include existing trucks or new trucks that are part of the Statewide goods movement sector.
- CARB's Emissions Reduction Plan for Ports and Goods Movement: CARB's Emissions Reduction Plan
 for Ports and Goods Movement identifies measures to improve goods movement efficiencies such
 as advanced combustion strategies, friction reduction, waste heat recovery, and electrification of
 accessories.

While these measures are not directly applicable to the Project, any activity associated with goods movement would be required to comply with these measures as adopted. The Project would not obstruct or interfere with efforts to increase ZEVs or state efforts to improve system efficiency. Compliance with applicable state standards (e.g., continuation of the Cap-and-Trade regulation; CARB's Mobile Source Strategy, Sustainable Freight Action Plan, and Advanced Clean Truck Regulation; Executive Order N-79-20;

SB 100/renewable electricity portfolio improvements that require 60 percent renewable electricity by 2030 and 100 percent renewable by 2045, etc.) would ensure consistency with state and regional GHG reduction planning efforts, including the 2022 Scoping Plan. It is also noted that the Project would not convert any or decrease the state's urban forest carbon stock, which is an area of emphasis in the 2022 Scoping Plan.

Regarding goals for 2050 under Executive Order S-3-05, at this time it is not possible to quantify the emissions savings from future regulatory measures, as they have not yet been developed; nevertheless, it can be anticipated that Project operations would benefit from applicable measures enacted to meet state GHG reduction goals. The Project would not impede the state's progress towards carbon neutrality by 2045 under the 2022 Scoping Plan. The Project would be required to comply with applicable current and future regulatory requirements promulgated through the 2022 Scoping Plan. Table 3-4 below shows the Projects consistency with the 2022 Scoping Plan.

Scoping Plan	Scoping Plan	Implementing	Project Consistency
Sector	Measure	Regulations	
Transportation	California Cap-and Trade Program Linked to Western Climate Initiative	Regulation for the California Cap on GHG Emissions and Market-Based Compliance Mechanism October 20, 2015 (CCR 95800)	Consistent. The Cap-and-Trade Program applies to large industrial sources such as power plants, refineries, and cement manufacturers. However, the regulation indirectly affects people who use the products and services produced by these industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers. The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects' electricity usage are covered by the Cap-and-Trade Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and combustion of other fossil fuels not directly covered at large sources in the Program's first compliance period. The Proposed Project would not conflict with implementation of the Cap-and-Trade Program and would indirectly be consistent with regard to the use of electricity and fuel

California Light-Duty Vehicle GHG Standards	Pavley I 2005 Regulations to Control GHG Emissions from Motor Vehicles Pavley I 2005 Regulations to Control GHG Emissions from Motor Vehicles	Consistent. This measure applies to all new vehicles starting with model year 2012. The Project would not conflict with its implementation as it would apply to all new passenger vehicles purchased in California. Passenger vehicles, model year 2012 and later, associated with Project construction and operation would be required to comply with the Pavley emissions standards.
	2012 LEV III California GHG and Criteria Pollutant Exhaust and Evaporative Emission Standards	Consistent. The LEV III amendments provide reductions from new vehicles sold in California between 2017 and 2025. Passenger vehicles associated with Project construction and operations would be required to comply with LEV III standards.
Low Carbon Fuel Standard	2009 readopted in 2015. Regulations to Achieve GHG Emission Reductions Subarticle 7. Low Carbon Fuel Standard CCR 95480	Consistent. This measure applies to transportation fuels utilized by vehicles in California. The Project would not conflict with implementation of this measure. It is assumed that any motor vehicles associated with Project construction and operations would be consistent with the measure and utilize low carbon transportation fuels.
Goods Movement	Goods Movement Action Plan January 2007	Not Applicable. The Project does not propose any changes to maritime, rail, or intermodal facilities or forms of transportation.
Medium/Heavy-Duty Vehicle	2010 Amendments to the Truck and Bus Regulation, the Drayage Truck Regulation and the Tractor-Trailer GHG Regulation	Consistent. This measure applies to medium- and heavy-duty vehicles that operate in the state. The Project would not conflict with implementation of this measure. Medium- and heavy-duty vehicles associated with Project construction would be required to comply with this regulation
High Speed Rail	Funded under SB 862	Not Applicable. This is a Statewide measure that cannot be implemented by a project applicant or Lead Agency

Electricity and Natural Gas	Energy Efficiency	Title 20 Appliance Efficiency Regulation Title 24 Part 6 Energy Efficiency Standards for Residential and Non-Residential Building Title 24 Part 11 California Green Building Code Standards	Consistent. The Project would not conflict with implementation of this measure, as it would be subject to compliance with the latest energy efficiency standards.
	Renewable Portfolio Standard/Renewable Electricity Standard	2010 Regulation to Implement the Renewable Electricity Standard (33% 2020)	Consistent. The Project would obtain electricity from the PG&E. PG&E delivers approximately 40 percent of the electricity that they provide from renewable resources. PG&E also offers a program to customers to
	Million Solar Roofs Program	SB 350 Clean Energy and Pollution Reduction Act of 2015 (50% 2030)	purchase up to 100 percent of their electricity from either solar or regional renewable energy sources. Therefore, the utility would provide power to the Project that would be is comprised of a greater percentage of renewable sources.
	Million Solar Roofs Program	Tax Incentive Program	Consistent. This measure is to increase solar use throughout California, which is being done by various electricity providers and existing solar programs. The program provides incentives that are in place at the time of construction.
Green Buildings	Green Building Strategy	Title 24 Part 11 California Green Building Code Standards	Consistent. The state is required to increase use of green building practices. The Project would implement required green building strategies through existing regulations that require the Project to comply with various CALGreen Code standards.
Industry	Industrial Emissions	2010 CARB Mandatory Reporting Regulation	Not Applicable. The Mandatory Reporting Regulation requires facilities and entities with more than 10,000 metric tons of CO ₂ e per year of combustion and process emissions, all facilities belonging to certain

			industries, and all electric power entities to submit an annual GHG emissions data report directly to CARB. The Project is not considered a "facility" and would emit less than 10,000 metric tons of CO _{2e} per year. Therefore, this regulation would not apply.
Recycling and Waste Management	Recycling and Waste	Title 24 Part 11 California Green Building Code Standards AB 341 Statewide 75 Percent Diversion	Consistent. The Project would not conflict with implementation of these measures. The Project is required to achieve the recycling mandates via compliance with the CALGreen Code.
		Goal	
Forests	Sustainable Forests	Cap-and-Trade Offset Projects	Not Applicable. No forested lands exist on the site.
High Global Warming Potential	High Global Warming Potential Gases	CARB Refrigerant Management Program CCR 95380	Consistent. The regulations are applicable to refrigerants used by large air conditioning systems and large commercial and industrial refrigerators and cold storage systems. The Project would not conflict with the refrigerant management regulations adopted by CARB.
Agriculture	Agriculture	Cap-and-Trade Offset Projects for Livestock and Rice Cultivation	Not Applicable . No grazing, feedlot, or other agricultural activities that generate manure occur currently on site or are proposed by the Project.

In conclusion, the Project does not conflict with the applicable plans and regulatory programs that are discussed above.

4.0 REFERENCES

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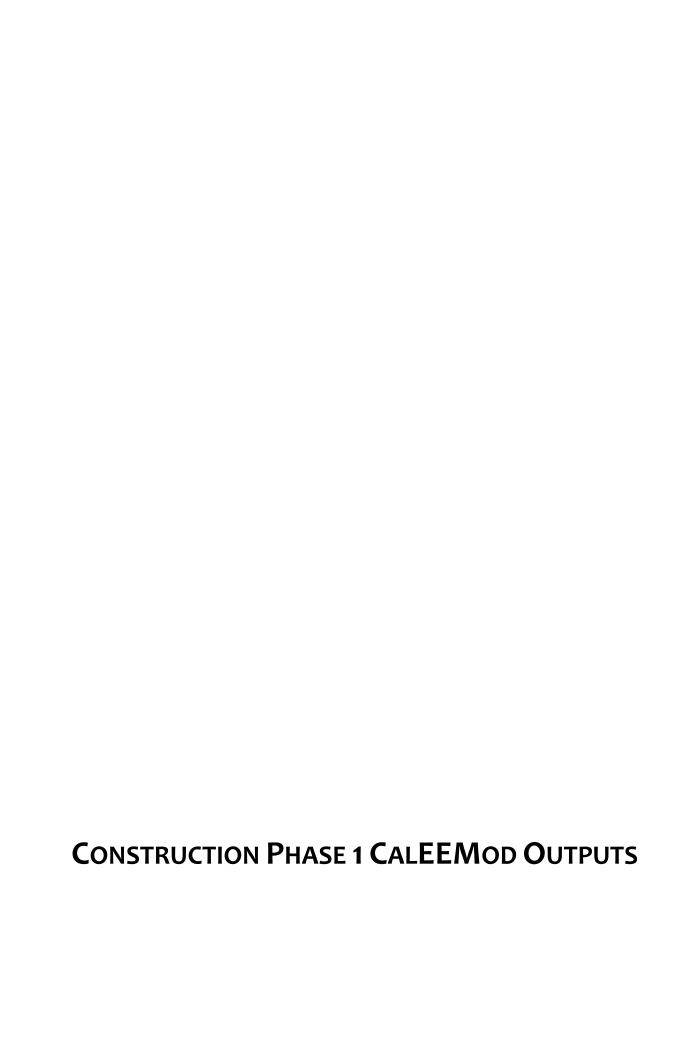
2025-089

LIST OF ATTACHMENTS

Attachment A – CalEEMod Output File for Air Quality Emissions and Greenhouse Gas Emissions

ATTACHMENT A

CalEEMod Output File for Air Quality Emissions and Greenhouse Gas Emissions



Triple Crown- Construction Phase 1 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Triple Crown- Construction Phase 1
Construction Start Date	1/1/2026
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	1.20
Location	39.18629186944287, -122.02889407786444
County	Colusa
City	Colusa
Air District	Colusa County APCD
Air Basin	Sacramento Valley
TAZ	229
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)		Special Landscape Area (sq ft)	Population	Description
Manufacturing	220	1000sqft	13.8	220,000	0.00	_	_	_
Parking Lot	380	Space	3.42	0.00	0.00	_	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

			.,	,						· · · · , · · · · ·		,					
Un/Mit.	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.46	27.6	28.4	0.06	1.22	14.4	15.6	1.12	6.91	8.03	_	7,001	7,001	0.27	0.10	1.87	7,038
Mit.	1.69	9.94	28.4	0.06	0.40	14.4	14.7	0.37	6.91	7.15	_	7,001	7,001	0.27	0.10	1.87	7,038
% Reduced	51%	64%	< 0.5%	_	67%	_	6%	67%	_	11%	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.75	48.0	48.4	0.12	2.01	17.5	19.5	1.85	7.23	9.08	_	12,976	12,976	0.52	0.11	0.03	13,022
Mit.	2.05	11.9	59.8	0.12	0.43	17.5	17.9	0.41	7.23	7.64	_	12,976	12,976	0.52	0.11	0.03	13,022
% Reduced	64%	75%	-24%	_	79%	_	8%	78%	_	16%	_	_	_	_	_	_	_
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.30	10.3	10.8	0.02	0.44	3.88	4.32	0.40	1.75	2.15	_	2,807	2,807	0.11	0.04	0.25	2,821
Mit.	0.64	3.98	11.7	0.02	0.15	3.88	4.03	0.14	1.75	1.89	_	2,807	2,807	0.11	0.04	0.25	2,821
% Reduced	50%	61%	-9%	_	66%	_	7%	65%	_	12%	_	_	_	_	_	_	_

Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.24	1.87	1.97	< 0.005	0.08	0.71	0.79	0.07	0.32	0.39	_	465	465	0.02	0.01	0.04	467
Mit.	0.12	0.73	2.14	< 0.005	0.03	0.71	0.74	0.03	0.32	0.34	_	465	465	0.02	0.01	0.04	467
% Reduced	50%	61%	-9%	_	66%	_	7%	65%	_	12%	_	_	_	_	_	_	_

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	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
leai	NOG	INOX	CO	302	FIVITUE	FIVITUD	FIVITOT	FIVIZ.SE	FIVIZ.SD	FIVIZ.51	BCOZ	INDCOZ	0021	OI 14	INZU	IX	COZE
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	3.46	27.6	28.4	0.06	1.22	14.4	15.6	1.12	6.91	8.03	_	7,001	7,001	0.27	0.10	1.87	7,038
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	5.75	48.0	48.4	0.12	2.01	17.5	19.5	1.85	7.23	9.08	_	12,976	12,976	0.52	0.11	0.03	13,022
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	1.30	10.3	10.8	0.02	0.44	3.88	4.32	0.40	1.75	2.15	_	2,807	2,807	0.11	0.04	0.25	2,821
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	0.24	1.87	1.97	< 0.005	0.08	0.71	0.79	0.07	0.32	0.39	_	465	465	0.02	0.01	0.04	467

2.3. Construction Emissions by Year, Mitigated

Year	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	1.69	9.94	28.4	0.06	0.40	14.4	14.7	0.37	6.91	7.15	_	7,001	7,001	0.27	0.10	1.87	7,038

Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	2.05	11.9	59.8	0.12	0.43	17.5	17.9	0.41	7.23	7.64	_	12,976	12,976	0.52	0.11	0.03	13,022
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	0.64	3.98	11.7	0.02	0.15	3.88	4.03	0.14	1.75	1.89	_	2,807	2,807	0.11	0.04	0.25	2,821
Annual	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	0.12	0.73	2.14	< 0.005	0.03	0.71	0.74	0.03	0.32	0.34	_	465	465	0.02	0.01	0.04	467

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.82	1.02	< 0.005	0.02	_	0.02	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.43	5.43	< 0.005	< 0.005	_	5.45

Demoliti	_	_	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.90	0.90	< 0.005	< 0.005	_	0.90
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.06	0.07	0.71	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	153	153	< 0.005	0.01	0.02	155
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.06	6.06	< 0.005	< 0.005	0.01	6.15
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.00	1.00	< 0.005	< 0.005	< 0.005	1.02
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Demolition (2026) - Mitigated

	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_		_	_	_	_	_	—	—		_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	-	_	_	-	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.82	1.02	< 0.005	0.02	_	0.02	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.43	5.43	< 0.005	< 0.005	_	5.45
Demoliti on	_	-	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.90	0.90	< 0.005	< 0.005	_	0.90
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.07	0.71	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	153	153	< 0.005	0.01	0.02	155
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.06	6.06	< 0.005	< 0.005	0.01	6.15
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.00	1.00	< 0.005	< 0.005	< 0.005	1.02
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
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

3.3. Site Preparation (2026) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		48.0	47.7	0.12	2.01	_	2.01	1.85	_	1.85	_	12,823	12,823	0.52	0.10	_	12,867
Dust From Material Movemen	 t	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_

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
Average Daily	_	_	_	_	-	_	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmer		3.94	3.92	0.01	0.17	_	0.17	0.15	_	0.15	_	1,054	1,054	0.04	0.01	_	1,058
Dust From Material Movemen	 t	_	-	_	_	1.43	1.43	_	0.59	0.59	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.72	0.72	< 0.005	0.03	_	0.03	0.03	_	0.03	-	174	174	0.01	< 0.005	_	175
Dust From Material Movemen	 t	_	_	_	_	0.26	0.26	_	0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	-	_	_	_		_	_	_	_		-	_	_	_
Daily, Winter (Max)	_	_	-	_	_	_	_	-	_	_	_	_		_	_	-	-
Worker	0.06	0.07	0.71	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	153	153	< 0.005	0.01	0.02	155
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
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
Average Daily	_	-	_	_	-	_	_	-	_	_	-	_	_	_	_	_	-
Worker	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.0	13.0	< 0.005	< 0.005	0.02	13.2
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

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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.15	2.15	< 0.005	< 0.005	< 0.005	2.18
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
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

3.4. Site Preparation (2026) - Mitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		11.9	59.1	0.12	0.43	_	0.43	0.41	_	0.41	_	12,823	12,823	0.52	0.10	_	12,867
Dust From Material Movemen	 t	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.97	4.86	0.01	0.04	_	0.04	0.03	_	0.03	-	1,054	1,054	0.04	0.01	_	1,058
Dust From Material Movemen	t	_	_	_	_	1.43	1.43	_	0.59	0.59	_	_	_	_	_	_	_
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

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	0.89	< 0.005	0.01	_	0.01	0.01	_	0.01	_	174	174	0.01	< 0.005	_	175
Dust From Material Movemen	<u> </u>	_	_	_	_	0.26	0.26	_	0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	-	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.07	0.71	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	153	153	< 0.005	0.01	0.02	155
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.0	13.0	< 0.005	< 0.005	0.02	13.2
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.15	2.15	< 0.005	< 0.005	< 0.005	2.18
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
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

3.5. Road Construction & Graveling (2026) - Unmitigated

Location	on ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		27.2	27.3	0.06	1.22	_	1.22	1.12	_	1.12	_	6,561	6,561	0.27	0.05	_	6,583
Dust From Material Movemen	t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	-	_	
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		27.2	27.3	0.06	1.22	_	1.22	1.12	_	1.12	_	6,561	6,561	0.27	0.05	_	6,583
Dust From Material Movemen	 t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	_	_
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
Average Daily	_	-	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Off-Road Equipmen		4.47	4.49	0.01	0.20	_	0.20	0.18	_	0.18	-	1,078	1,078	0.04	0.01	_	1,082
Dust From Material Movemen	 t		_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_		_	-	_	_	_
Off-Road Equipmen		0.82	0.82	< 0.005	0.04	_	0.04	0.03	_	0.03	_	179	179	0.01	< 0.005	_	179

Dust From Material Movemen	 t	_	_	_	_	0.42	0.42	_	0.21	0.21	_	_	_	_	_	_	
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Worker	0.07	0.05	0.99	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	174	174	0.01	0.01	0.59	177
Vendor	0.01	0.33	0.11	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	266	266	< 0.005	0.04	0.69	278
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.07	0.71	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	153	153	< 0.005	0.01	0.02	155
Vendor	0.01	0.36	0.11	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	266	266	< 0.005	0.04	0.02	278
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	26.0	26.0	< 0.005	< 0.005	0.04	26.3
Vendor	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	43.8	43.8	< 0.005	0.01	0.05	45.7
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.30	4.30	< 0.005	< 0.005	0.01	4.36
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	7.24	7.24	< 0.005	< 0.005	0.01	7.56
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

3.6. Road Construction & Graveling (2026) - Mitigated

Location	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		7.00	27.3	0.06	0.25	_	0.25	0.24	_	0.24	_	6,561	6,561	0.27	0.05	_	6,583
Dust From Material Movemen	 t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	-	_
Off-Road Equipmen		7.00	27.3	0.06	0.25	_	0.25	0.24	_	0.24	_	6,561	6,561	0.27	0.05	_	6,583
Dust From Material Movemen	 t	_	_	_	_	14.2	14.2	_	6.85	6.85	-	_	_	-	_	_	_
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.15	4.49	0.01	0.04	_	0.04	0.04	-	0.04	_	1,078	1,078	0.04	0.01	_	1,082
Dust From Material Movemen	<u> </u>	_	_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.21	0.82	< 0.005	0.01	_	0.01	0.01	_	0.01	_	179	179	0.01	< 0.005	_	179
Dust From Material Movement	 t	_	_	_	_	0.42	0.42	_	0.21	0.21	_	_	_	_	_	_	
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Worker	0.07	0.05	0.99	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	174	174	0.01	0.01	0.59	177
Vendor	0.01	0.33	0.11	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	266	266	< 0.005	0.04	0.69	278
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-	-
Worker	0.06	0.07	0.71	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	153	153	< 0.005	0.01	0.02	155
Vendor	0.01	0.36	0.11	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	266	266	< 0.005	0.04	0.02	278
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	26.0	26.0	< 0.005	< 0.005	0.04	26.3
Vendor	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	43.8	43.8	< 0.005	0.01	0.05	45.7
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.30	4.30	< 0.005	< 0.005	0.01	4.36
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	7.24	7.24	< 0.005	< 0.005	0.01	7.56
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

3.7. Building Construction (2026) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		3.69	3.72	0.01	0.16	_	0.16	0.14	_	0.14	_	1,019	1,019	0.04	0.01	_	1,022
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		3.69	3.72	0.01	0.16	_	0.16	0.14	_	0.14	_	1,019	1,019	0.04	0.01	_	1,022
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
Average Daily	_	_	_	-	_	_	_	-	_	_	_	_	-	_	_	_	_
Off-Road Equipmen		1.21	1.22	< 0.005	0.05	_	0.05	0.05	_	0.05	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.22	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	_	55.5	55.5	< 0.005	< 0.005	_	55.6
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Worker	0.07	0.05	0.99	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	174	174	0.01	0.01	0.59	177
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

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
Daily, Winter (Max)	_	-	_	_	_	-	_	_	_	_	_	_	-	_	_	_	_
Worker	0.06	0.07	0.71	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	153	153	< 0.005	0.01	0.02	155
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	52.0	52.0	< 0.005	< 0.005	0.08	52.7
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
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
Annual	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	8.60	8.60	< 0.005	< 0.005	0.01	8.72
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
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

3.8. Building Construction (2026) - Mitigated

				<i>J</i> ,													
Location	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		3.69	3.72	0.01	0.16	_	0.16	0.14	_	0.14	_	1,019	1,019	0.04	0.01	_	1,022
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		3.69	3.72	0.01	0.16	_	0.16	0.14	_	0.14	_	1,019	1,019	0.04	0.01	_	1,022
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
Average Daily	_	_	_	_	_	_		_	_		_	_	_	_	_	_	
Off-Road Equipmen		1.21	1.22	< 0.005	0.05	_	0.05	0.05	_	0.05	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.22	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	_	55.5	55.5	< 0.005	< 0.005	_	55.6
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	-	_	-	_	_	_	_
Worker	0.07	0.05	0.99	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	174	174	0.01	0.01	0.59	177
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
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
Daily, Winter (Max)	_	_	_	_	_	-	_	_	_	_	-	_	_	_	_	_	_
Worker	0.06	0.07	0.71	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	153	153	< 0.005	0.01	0.02	155
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	52.0	52.0	< 0.005	< 0.005	0.08	52.7
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
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

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	8.60	8.60	< 0.005	< 0.005	0.01	8.72
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
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

3.9. Paving & Utilities (2026) - Unmitigated

onicina i	Ollatai	ì	ly loi dai		101 ariii												
Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		5.81	7.00	0.02	0.24	_	0.24	0.22	_	0.22	_	1,932	1,932	0.08	0.02	_	1,939
Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Off-Road Equipmen		0.48	0.58	< 0.005	0.02	_	0.02	0.02	_	0.02	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.09	0.11	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	26.3	26.3	< 0.005	< 0.005	_	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.07	0.05	0.99	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	174	174	0.01	0.01	0.59	177
Vendor	0.01	0.33	0.11	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	266	266	< 0.005	0.04	0.69	278
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.0	13.0	< 0.005	< 0.005	0.02	13.2
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	21.9	21.9	< 0.005	< 0.005	0.02	22.8
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.15	2.15	< 0.005	< 0.005	< 0.005	2.18
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.62	3.62	< 0.005	< 0.005	< 0.005	3.78
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

3.10. Paving & Utilities (2026) - Mitigated

			ĺ	J. J			ì		J /								
Location	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		5.81	7.00	0.02	0.24	_	0.24	0.22	_	0.22	_	1,932	1,932	0.08	0.02	_	1,939

Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-
Off-Road Equipmer		0.48	0.58	< 0.005	0.02	_	0.02	0.02	_	0.02	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.09	0.11	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	_	26.3	26.3	< 0.005	< 0.005	_	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_
Worker	0.07	0.05	0.99	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	174	174	0.01	0.01	0.59	177
Vendor	0.01	0.33	0.11	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	266	266	< 0.005	0.04	0.69	278
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.0	13.0	< 0.005	< 0.005	0.02	13.2
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	21.9	21.9	< 0.005	< 0.005	0.02	22.8

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
Annual	_	_	_	_	_	_	_	<u> </u>	<u> </u>	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.15	2.15	< 0.005	< 0.005	< 0.005	2.18
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.62	3.62	< 0.005	< 0.005	< 0.005	3.78
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

4. Operations Emissions Details

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	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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

		(110) 010	,	.,,		,											
Species	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Vegetatio n	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																	
Iotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

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

		(,	., to., j.		, , ,	(,	. ,	,						
Land Use	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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>
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	1/1/2026	1/20/2026	5.00	14.0	_
Site Preparation	Site Preparation	1/21/2026	3/3/2026	5.00	30.0	_

Road Construction & Graveling	Grading	3/4/2026	5/26/2026	5.00	60.0	_
Building Construction	Building Construction	5/27/2026	11/10/2026	5.00	120	_
Paving & Utilities	Paving	5/27/2026	7/7/2026	5.00	30.0	_

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
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Average	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Average	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Average	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Tier 4 Final	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area	Residential Exterior Area	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq.ft)
Hase Name	residential interior / trea	Tresidential Exterior / trea	14011 11Coldonillal littoriol / lica	14011 11031dCHilai Exterior /110d	r arking rirea boated (39 it)
	Cooted (eg ft)	Cooted (og ft)	Coated (sq ft)	Cooted (eg ft)	
	Coated (sq ft)	Coated (sq ft)	Coaled (Sq II)	Coated (sq ft)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	_	_
Site Preparation	_	_	150	0.00	_
Road Construction & Graveling	_	_	120	0.00	_
Paving & Utilities	0.00	0.00	0.00	0.00	3.42

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	3.42	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

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

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Llee Time	Vegetation Cail Type	Initial Agrae	Final Agrae
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 Initial Acres Final 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)

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	26.1	annual days of extreme heat
Extreme Precipitation	2.25	annual days with precipitation above 20 mm

Sea Level Rise	_	meters of inundation depth
Wildfire	10.5	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	3	0	0	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	3	1	1	3

Extreme Precipitation	1	1	1	2
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
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.

5 (, 5	· · · · · · · · · · · · · · · · · · ·
Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	40.0
AQ-PM	23.6
AQ-DPM	14.9
Drinking Water	8.53
Lead Risk Housing	57.6
Pesticides	92.1
Toxic Releases	5.96
Traffic	2.81
Effect Indicators	_

CleanUp Sites	81.9
Groundwater	84.7
Haz Waste Facilities/Generators	43.3
Impaired Water Bodies	91.9
Solid Waste	83.3
Sensitive Population	_
Asthma	44.7
Cardio-vascular	91.2
Low Birth Weights	46.5
Socioeconomic Factor Indicators	_
Education	62.4
Housing	22.1
Linguistic	64.1
Poverty	65.4
Unemployment	14.4

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	34.05620429
Employed	22.03259335
Median HI	33.85089183
Education	_
Bachelor's or higher	36.60977801
High school enrollment	11.18952906
Preschool enrollment	63.87783909
Transportation	_

Auto Access	35.49339151
Active commuting	26.67778776
Social	_
2-parent households	15.50109072
Voting	78.08289491
Neighborhood	_
Alcohol availability	56.64057487
Park access	34.21018863
Retail density	3.054022841
Supermarket access	55.34453997
Tree canopy	68.09957654
Housing	_
Homeownership	59.19414859
Housing habitability	86.46220968
Low-inc homeowner severe housing cost burden	96.34287181
Low-inc renter severe housing cost burden	71.48723213
Uncrowded housing	57.46182471
Health Outcomes	_
Insured adults	36.77659438
Arthritis	0.0
Asthma ER Admissions	37.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	53.5

Cognitively Disabled	43.0
Physically Disabled	23.7
Heart Attack ER Admissions	4.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	_
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	10.6
Elderly	29.3
English Speaking	70.0
Foreign-born	29.8
Outdoor Workers	9.0
Climate Change Adaptive Capacity	_
Impervious Surface Cover	83.0
Traffic Density	2.1
Traffic Access	0.0
Other Indices	_
Hardship	61.9
Other Decision Support	_

2016 Voting	73.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	35.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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.

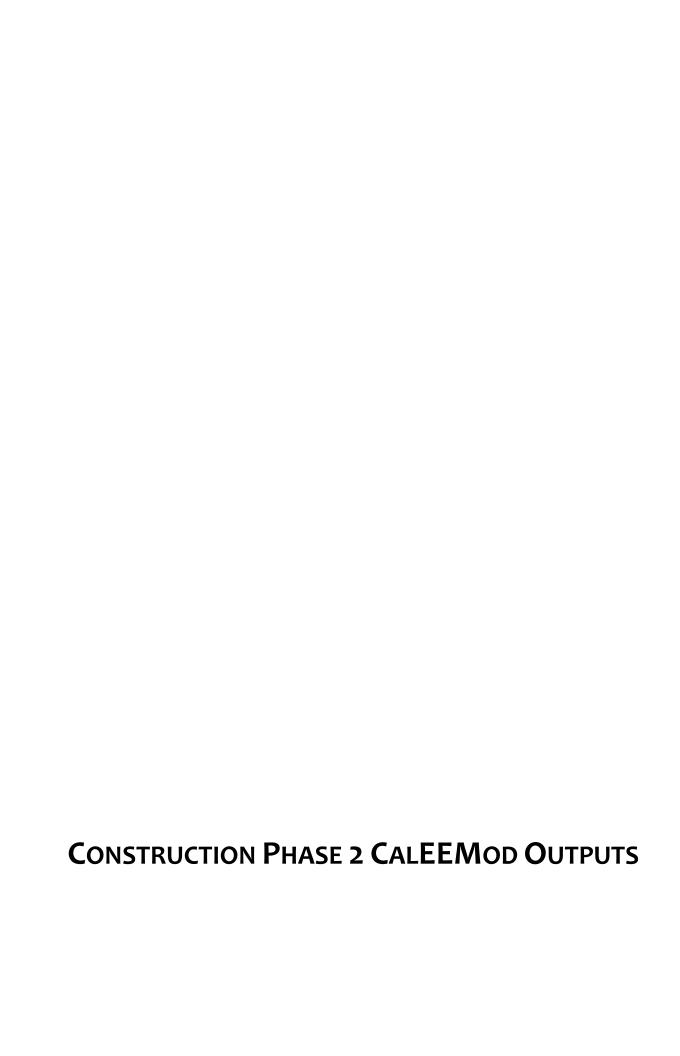
7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification						
Construction: Construction Phases	Construction phasing and timing updated to match the Project Description. Building construction along with paving and utilities assumed to occur simultaneously.						
Construction: Off-Road Equipment	Equipment list updated to match the Project Description. Excavator added to demolition phase						
Construction: Trips and VMT	Worker, vendor and hauling trips updated to match the Project Description.						
Land Use	Lot acreage adjusted to match the Project. Half of the total size (440,00 SF) accounted for in the modeling as the buildings will be premanufactured.						

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.



Triple Crown- Construction Phase 2 Detailed Report

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 - 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	Triple Crown- Construction Phase 2
Construction Start Date	1/1/2027
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	1.20
Location	39.18629186944287, -122.02889407786444
County	Colusa
City	Colusa
Air District	Colusa County APCD
Air Basin	Sacramento Valley
TAZ	229
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Manufacturing	220	1000sqft	13.8	220,000	0.00	_	_	_
Parking Lot	380	Space	3.42	0.00	0.00	_	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

				J. J													
Un/Mit.	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	-	_	_	_	_	_	_	_	_	-	_	_	_	_
Unmit.	3.37	26.1	28.0	0.06	1.15	14.4	15.5	1.06	6.91	7.96	_	6,992	6,992	0.27	0.10	1.69	7,029
Mit.	1.66	9.54	28.3	0.06	0.38	14.4	14.6	0.35	6.91	7.14	_	6,992	6,992	0.27	0.10	1.69	7,029
% Reduced	51%	63%	-1%	_	67%	_	6%	67%	_	10%	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.60	45.1	47.8	0.12	1.89	17.5	19.4	1.74	7.23	8.97	_	12,972	12,972	0.52	0.11	0.03	13,018
Mit.	2.05	11.6	59.7	0.12	0.41	17.5	17.9	0.39	7.23	7.62	_	12,972	12,972	0.52	0.11	0.03	13,018
% Reduced	63%	74%	-25%	_	78%	_	8%	77%	_	15%	_	_	_	_	_	_	_
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.26	9.70	10.6	0.02	0.41	3.88	4.29	0.38	1.75	2.13	_	2,804	2,804	0.11	0.04	0.23	2,817
Mit.	0.64	3.82	11.7	0.02	0.14	3.88	4.02	0.13	1.75	1.88	_	2,804	2,804	0.11	0.04	0.23	2,817
% Reduced	50%	61%	-10%	_	65%	_	6%	65%	_	12%	_	_	_	_	_	_	_

Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.23	1.77	1.94	< 0.005	0.08	0.71	0.78	0.07	0.32	0.39	_	464	464	0.02	0.01	0.04	466
Mit.	0.12	0.70	2.13	< 0.005	0.03	0.71	0.73	0.02	0.32	0.34		464	464	0.02	0.01	0.04	466
% Reduced	50%	61%	-10%	_	65%	_	6%	65%	_	12%	_	_	_	_	_	_	_

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	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2027	3.37	26.1	28.0	0.06	1.15	14.4	15.5	1.06	6.91	7.96	_	6,992	6,992	0.27	0.10	1.69	7,029
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2027	5.60	45.1	47.8	0.12	1.89	17.5	19.4	1.74	7.23	8.97	_	12,972	12,972	0.52	0.11	0.03	13,018
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2027	1.26	9.70	10.6	0.02	0.41	3.88	4.29	0.38	1.75	2.13	_	2,804	2,804	0.11	0.04	0.23	2,817
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2027	0.23	1.77	1.94	< 0.005	0.08	0.71	0.78	0.07	0.32	0.39	_	464	464	0.02	0.01	0.04	466

2.3. Construction Emissions by Year, Mitigated

Year	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2027	1.66	9.54	28.3	0.06	0.38	14.4	14.6	0.35	6.91	7.14	_	6,992	6,992	0.27	0.10	1.69	7,029

Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2027	2.05	11.6	59.7	0.12	0.41	17.5	17.9	0.39	7.23	7.62	_	12,972	12,972	0.52	0.11	0.03	13,018
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2027	0.64	3.82	11.7	0.02	0.14	3.88	4.02	0.13	1.75	1.88	_	2,804	2,804	0.11	0.04	0.23	2,817
Annual	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_
2027	0.12	0.70	2.13	< 0.005	0.03	0.71	0.73	0.02	0.32	0.34	_	464	464	0.02	0.01	0.04	466

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.81	1.02	< 0.005	0.02	_	0.02	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.44	5.44	< 0.005	< 0.005	_	5.45

Demoliti	_	_	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.90	0.90	< 0.005	< 0.005	_	0.90
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.06	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	150	150	< 0.005	0.01	0.01	152
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.94	5.94	< 0.005	< 0.005	0.01	6.02
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.98	0.98	< 0.005	< 0.005	< 0.005	1.00
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
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

3.2. Demolition (2027) - Mitigated

			Í				GI IGS (
Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.81	1.02	< 0.005	0.02	_	0.02	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.44	5.44	< 0.005	< 0.005	_	5.45
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.90	0.90	< 0.005	< 0.005	_	0.90
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	150	150	< 0.005	0.01	0.01	152
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.94	5.94	< 0.005	< 0.005	0.01	6.02
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
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
Annual	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.98	0.98	< 0.005	< 0.005	< 0.005	1.00
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
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

3.3. Site Preparation (2027) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		45.0	47.2	0.12	1.89	_	1.89	1.74	_	1.74	_	12,822	12,822	0.52	0.10	_	12,866
Dust From Material Movemen	 t	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_

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
Average Daily	_	_	_	_	-	_	_	_	_	_	-	_	_	_	_	-	_
Off-Road Equipmer		3.70	3.88	0.01	0.16	_	0.16	0.14	_	0.14	_	1,054	1,054	0.04	0.01	_	1,057
Dust From Material Movemen	 t	-	_	_	_	1.43	1.43	_	0.59	0.59	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.68	0.71	< 0.005	0.03	_	0.03	0.03	_	0.03	-	174	174	0.01	< 0.005	-	175
Dust From Material Movemen	t	_	_	_	_	0.26	0.26	_	0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	150	150	< 0.005	0.01	0.01	152
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
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
Average Daily	_	_	_	_	-	_	_	_	_	_	-	_	-	_	_	-	-
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.7	12.7	< 0.005	< 0.005	0.02	12.9
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

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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.11	2.11	< 0.005	< 0.005	< 0.005	2.14
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
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

3.4. Site Preparation (2027) - Mitigated

											1					
ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
1.99 t	11.5	59.1	0.12	0.41	_	0.41	0.39	_	0.39	_	12,822	12,822	0.52	0.10	_	12,866
<u> </u>	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
0.16 t	0.95	4.86	0.01	0.03	_	0.03	0.03	_	0.03	_	1,054	1,054	0.04	0.01	_	1,057
t	_	_	-	_	1.43	1.43	_	0.59	0.59	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
	ROG 1.99 t 0.00 0.16 t	ROG NOX	ROG NOx CO — — — — — — 1.99 11.5 59.1 t — — 0.00 0.00 0.00 — — — 0.16 0.95 4.86 t — —	ROG NOX CO SO2 — — — — — — — — — 1.99 11.5 59.1 0.12 - — — — 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — — — — 0.16 0.95 4.86 0.01 - — — —	ROG NOX CO SO2 PM10E — — — — — — — — — — — — 1.99 11.5 59.1 0.12 0.41 — — — — 8 0.00 0.00 0.00 0.00 — — — — 0.16 0.95 4.86 0.01 0.03 t — — — —	ROG NOX CO SO2 PM10E PM10D — — — — — — — — — — — — — — — 1.99 11.5 59.1 0.12 0.41 — — — — — 17.3 1 0.00 0.00 0.00 0.00 0.00 — — — — — 0.16 0.95 4.86 0.01 0.03 — 1.43 — — — — 1.43	ROG NOx CO SO2 PM10E PM10D PM10T — — — — — — — — — — — — — — — — — — 1.99 11.5 59.1 0.12 0.41 — 0.41 — — — — 17.3 17.3 10.00 0.00 0.00 0.00 0.00 0.00 0.00 — — — — — — — 0.16 0.95 4.86 0.01 0.03 — 0.03 — — — — — — 1.43 1.43	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E — — — — — — — — — — — — — — — — 1.99 11.5 59.1 0.12 0.41 — 0.41 0.39 — — — — 17.3 17.3 — 0.00	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D — <td< td=""><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 —</td><td>ROG NOx CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T —<!--</td--><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 —</td><td>ROG NOX CO SO2 PM10E PM10D PM2.5E PM2.5E PM2.5T BCO2 NBCO2 CO2T CH4 N2O </td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R </td></td></td<>	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 —	ROG NOx CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T — </td <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 —</td> <td>ROG NOX CO SO2 PM10E PM10D PM2.5E PM2.5E PM2.5T BCO2 NBCO2 CO2T CH4 N2O </td> <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R </td>	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 —	ROG NOX CO SO2 PM10E PM10D PM2.5E PM2.5E PM2.5T BCO2 NBCO2 CO2T CH4 N2O	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.17	0.89	< 0.005	0.01	_	0.01	0.01	_	0.01	_	174	174	0.01	< 0.005	_	175
Dust From Material Movemen	 t	_	_	_	_	0.26	0.26	_	0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Worker	0.06	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	150	150	< 0.005	0.01	0.01	152
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
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
Average Daily	_	_	_		_		_	_	_	_		_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.7	12.7	< 0.005	< 0.005	0.02	12.9
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.11	2.11	< 0.005	< 0.005	< 0.005	2.14
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
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

3.5. Road Construction & Graveling (2027) - Unmitigated

Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		25.8	27.0	0.06	1.15	_	1.15	1.05	_	1.05	_	6,561	6,561	0.27	0.05	_	6,584
Dust From Material Movemen	t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	-	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		25.8	27.0	0.06	1.15	_	1.15	1.05	-	1.05	_	6,561	6,561	0.27	0.05	_	6,584
Dust From Material Movemen	<u> </u>	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	_	_
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
Average Daily	_	-	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Off-Road Equipmen		4.23	4.44	0.01	0.19	_	0.19	0.17	_	0.17	_	1,079	1,079	0.04	0.01	_	1,082
Dust From Material Movemen	 t		_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.77	0.81	< 0.005	0.03	_	0.03	0.03	_	0.03	_	179	179	0.01	< 0.005	_	179

Dust From Material Movemen	 t	_	_	_	_	0.42	0.42	_	0.21	0.21	_	_		_	_	_	
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
Worker	0.07	0.05	0.92	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	171	171	< 0.005	0.01	0.53	173
Vendor	0.01	0.32	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	260	260	< 0.005	0.04	0.63	272
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	150	150	< 0.005	0.01	0.01	152
Vendor	0.01	0.34	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	261	261	< 0.005	0.04	0.02	272
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	25.5	25.5	< 0.005	< 0.005	0.04	25.8
Vendor	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	42.8	42.8	< 0.005	0.01	0.04	44.7
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.22	4.22	< 0.005	< 0.005	0.01	4.27
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	7.09	7.09	< 0.005	< 0.005	0.01	7.41
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

3.6. Road Construction & Graveling (2027) - Mitigated

Location	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		6.77	27.3	0.06	0.25	_	0.25	0.23	_	0.23	_	6,561	6,561	0.27	0.05	_	6,584
Dust From Material Movemen	 t	_	_	-	_	14.2	14.2	-	6.85	6.85	_	_	_	-	_	_	-
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	-	_	-	_	_	-	_	_	_
Off-Road Equipmen		6.77	27.3	0.06	0.25	_	0.25	0.23	_	0.23	_	6,561	6,561	0.27	0.05	_	6,584
Dust From Material Movemen	 t	_	_	-	_	14.2	14.2	_	6.85	6.85	-	_	_	-	_	_	_
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.11	4.49	0.01	0.04	_	0.04	0.04	-	0.04	_	1,079	1,079	0.04	0.01	-	1,082
Dust From Material Movemen	<u> </u>	_	_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.20	0.82	< 0.005	0.01	_	0.01	0.01	_	0.01	_	179	179	0.01	< 0.005	_	179
Dust From Material Movement	<u> </u>	_	_	_	_	0.42	0.42	_	0.21	0.21	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.05	0.92	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	171	171	< 0.005	0.01	0.53	173
Vendor	0.01	0.32	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	260	260	< 0.005	0.04	0.63	272
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-	-
Worker	0.06	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	150	150	< 0.005	0.01	0.01	152
Vendor	0.01	0.34	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	261	261	< 0.005	0.04	0.02	272
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	25.5	25.5	< 0.005	< 0.005	0.04	25.8
Vendor	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	42.8	42.8	< 0.005	0.01	0.04	44.7
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.22	4.22	< 0.005	< 0.005	0.01	4.27
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	7.09	7.09	< 0.005	< 0.005	0.01	7.41
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

3.7. Building Construction (2027) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Off-Road Equipmen		3.49	3.71	0.01	0.14	_	0.14	0.13	_	0.13	_	1,019	1,019	0.04	0.01	_	1,022
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		3.49	3.71	0.01	0.14	_	0.14	0.13	_	0.13	_	1,019	1,019	0.04	0.01	_	1,022
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
Average Daily	_	_	_	-	_	_	_	_	_	_	_	_	-	_	_	_	_
Off-Road Equipmen		1.15	1.22	< 0.005	0.05	_	0.05	0.04	_	0.04	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.21	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	_	55.5	55.5	< 0.005	< 0.005	_	55.6
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.05	0.92	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	171	171	< 0.005	0.01	0.53	173
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

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
Daily, Winter (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	150	150	< 0.005	0.01	0.01	152
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	50.9	50.9	< 0.005	< 0.005	0.08	51.6
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	8.43	8.43	< 0.005	< 0.005	0.01	8.55
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
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

3.8. Building Construction (2027) - Mitigated

				<i>J</i> ,													
Location	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		3.49	3.71	0.01	0.14	_	0.14	0.13	_	0.13	_	1,019	1,019	0.04	0.01	_	1,022
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		3.49	3.71	0.01	0.14	_	0.14	0.13	_	0.13	_	1,019	1,019	0.04	0.01	_	1,022
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
Average Daily	_	_	_	_	_	_	_	_	-	_	-	_	-	-	_	_	_
Off-Road Equipmen		1.15	1.22	< 0.005	0.05	_	0.05	0.04	_	0.04	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.21	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	-	55.5	55.5	< 0.005	< 0.005	_	55.6
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.05	0.92	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	171	171	< 0.005	0.01	0.53	173
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
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.06	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	150	150	< 0.005	0.01	0.01	152
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
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
Average Daily	_	_	_	_	_	_	-	_	_	_	_	_	-	-	_	_	_
Worker	0.02	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	50.9	50.9	< 0.005	< 0.005	0.08	51.6
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
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

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	8.43	8.43	< 0.005	< 0.005	0.01	8.55
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
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

3.9. Paving & Utilities (2027) - Unmitigated

• · · · · · · · · ·	0.110.10.1	110 (110) G		ily, tolly		daily dilla		ib/day ic			OKI II TOTOKI						
Location	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		5.63	7.01	0.02	0.23	_	0.23	0.21	_	0.21	_	1,932	1,932	0.08	0.02	_	1,939
Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.46	0.58	< 0.005	0.02	_	0.02	0.02	_	0.02	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.08	0.11	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	26.3	26.3	< 0.005	< 0.005	_	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	-	_	_	_	_	_	_	-	_	_
Worker	0.07	0.05	0.92	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	171	171	< 0.005	0.01	0.53	173
Vendor	0.01	0.32	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	260	260	< 0.005	0.04	0.63	272
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.7	12.7	< 0.005	< 0.005	0.02	12.9
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	21.4	21.4	< 0.005	< 0.005	0.02	22.4
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.11	2.11	< 0.005	< 0.005	< 0.005	2.14
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.55	3.55	< 0.005	< 0.005	< 0.005	3.70
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

3.10. Paving & Utilities (2027) - Mitigated

				<i>J</i> .													
Location	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		5.63	7.01	0.02	0.23	_	0.23	0.21	_	0.21	_	1,932	1,932	0.08	0.02	_	1,939

Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Off-Road Equipmen		0.46	0.58	< 0.005	0.02	_	0.02	0.02	_	0.02	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.08	0.11	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	_	26.3	26.3	< 0.005	< 0.005	_	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	-
Worker	0.07	0.05	0.92	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	171	171	< 0.005	0.01	0.53	173
Vendor	0.01	0.32	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	260	260	< 0.005	0.04	0.63	272
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily		_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.7	12.7	< 0.005	< 0.005	0.02	12.9
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	21.4	21.4	< 0.005	< 0.005	0.02	22.4

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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.11	2.11	< 0.005	< 0.005	< 0.005	2.14
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.55	3.55	< 0.005	< 0.005	< 0.005	3.70
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

4. Operations Emissions Details

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	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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

		(110) 010	,	.,,,.		,		ne, ereny ne									
Species	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Total																	
Iotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

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

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_		<u> </u>	_	_	<u> </u>	_	_	_	_	<u> </u>	_	_	_		_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	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 — — — — — — — — — — — — — — — — — —	
Winter (Max) Avoided —	
Subtotal —<	
Sequest ered — <t< td=""><td></td></t<>	
ered	- -
Remove — — — — — — — — — — — — — — — — — — —	_ -
d	
Subtotal — — — — — — — — — — — — — — — — — — —	- -
	- -
	- -
Annual — — — — — — — — — — — — — — — — — — —	- -
Avoided — — — — — — — — — — — — — — — — — —	- -
Subtotal — — — — — — — — — — — — — — — — — — —	- -
Sequest — — — — — — — — — — — — — — — — — — —	- -
Subtotal — — — — — — — — — — — — — — — — — — —	- -
Remove — — — — — — — — — — — — — — — — — — —	- -
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	1/1/2027	1/20/2027	5.00	14.0	_
Site Preparation	Site Preparation	1/21/2027	3/3/2027	5.00	30.0	_

Road Construction & Graveling	Grading	3/4/2027	5/26/2027	5.00	60.0	_
Building Construction	Building Construction	5/27/2027	11/10/2027	5.00	120	_
Paving & Utilities	Paving	5/27/2027	7/7/2027	5.00	30.0	_

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
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Average	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Average	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Average	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Tier 4 Final	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area	Residential Exterior Area	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sg ft)
· · · · · · · · · · · · · · · · · · ·	r to ora or that i more or i mod	. toolaania. Entolloi 1 iloa			· arrang rada daataa (aq n)
	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	
	Coalcu (sq II)	Coaled (34 II)	Coaled (34 II)	Coaled (34 II)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	_	_
Site Preparation	_	_	150	0.00	_
Road Construction & Graveling	_	_	120	0.00	_
Paving & Utilities	0.00	0.00	0.00	0.00	3.42

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	3.42	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

	V		
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 Initial Acres Final 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)

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	26.1	annual days of extreme heat
Extreme Precipitation	2.25	annual days with precipitation above 20 mm

Sea Level Rise	_	meters of inundation depth
Wildfire	10.5	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	3	0	0	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	3	1	1	3

Extreme Precipitation	1	1	1	2
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
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	40.0
AQ-PM	23.6
AQ-DPM	14.9
Drinking Water	8.53
Lead Risk Housing	57.6
Pesticides	92.1
Toxic Releases	5.96
Traffic	2.81
Effect Indicators	_

CleanUp Sites	81.9
Groundwater	84.7
Haz Waste Facilities/Generators	43.3
Impaired Water Bodies	91.9
Solid Waste	83.3
Sensitive Population	_
Asthma	44.7
Cardio-vascular	91.2
Low Birth Weights	46.5
Socioeconomic Factor Indicators	_
Education	62.4
Housing	22.1
Linguistic	64.1
Poverty	65.4
Unemployment	14.4

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	34.05620429
Employed	22.03259335
Median HI	33.85089183
Education	_
Bachelor's or higher	36.60977801
High school enrollment	11.18952906
Preschool enrollment	63.87783909
Transportation	_

Auto Access	35.49339151
Active commuting	26.67778776
Social	_
2-parent households	15.50109072
Voting	78.08289491
Neighborhood	_
Alcohol availability	56.64057487
Park access	34.21018863
Retail density	3.054022841
Supermarket access	55.34453997
Tree canopy	68.09957654
Housing	_
Homeownership	59.19414859
Housing habitability	86.46220968
Low-inc homeowner severe housing cost burden	96.34287181
Low-inc renter severe housing cost burden	71.48723213
Uncrowded housing	57.46182471
Health Outcomes	_
Insured adults	36.77659438
Arthritis	0.0
Asthma ER Admissions	37.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	53.5

Cognitively Disabled	43.0
Physically Disabled	23.7
Heart Attack ER Admissions	4.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	_
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	10.6
Elderly	29.3
English Speaking	70.0
Foreign-born	29.8
Outdoor Workers	9.0
Climate Change Adaptive Capacity	_
Impervious Surface Cover	83.0
Traffic Density	2.1
Traffic Access	0.0
Other Indices	_
Hardship	61.9
Other Decision Support	_

2016 Voting	73.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	35.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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

Screen	Justification						
Construction: Construction Phases	Construction phasing and timing updated to match the Project Description. Building construction along with paving and utilities assumed to occur simultaneously.						
Construction: Off-Road Equipment	Equipment list updated to match the Project Description. Excavator added to demolition phase						
Construction: Trips and VMT	Worker, vendor and hauling trips updated to match the Project Description.						
Land Use	Lot acreage adjusted to match the Project. Half of the total size (440,00 SF) accounted for in the modeling as the buildings will be premanufactured.						

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.



Triple Crown- Construction Phase 3 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Triple Crown- Construction Phase 3
Construction Start Date	1/1/2028
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	1.20
Location	39.18629186944287, -122.02889407786444
County	Colusa
City	Colusa
Air District	Colusa County APCD
Air Basin	Sacramento Valley
TAZ	229
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)		Special Landscape Area (sq ft)	Population	Description
Manufacturing	220	1000sqft	13.8	220,000	0.00	_	_	_
Parking Lot	380	Space	3.42	0.00	0.00	_	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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Un/Mit.	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.33	25.0	28.0	0.06	1.10	14.4	15.5	1.01	6.91	7.92	_	6,986	6,986	0.27	0.10	1.52	7,022
Mit.	1.62	8.95	28.2	0.06	0.34	14.4	14.6	0.31	6.91	7.13	_	6,986	6,986	0.27	0.10	1.52	7,022
% Reduced	51%	64%	-1%	_	69%	_	6%	69%	_	10%	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.49	42.7	47.6	0.12	1.79	17.5	19.3	1.64	7.23	8.87	_	12,971	12,971	0.52	0.11	0.03	13,017
Mit.	2.03	11.2	59.7	0.12	0.39	17.5	17.9	0.38	7.23	7.61	_	12,971	12,971	0.52	0.11	0.03	13,017
% Reduced	63%	74%	-25%	_	78%	_	7%	77%	_	14%	_	_	_	_	_	_	_
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.25	9.32	10.7	0.03	0.39	3.93	4.32	0.36	1.77	2.13	_	2,836	2,836	0.11	0.03	0.20	2,850
Mit.	0.63	3.63	11.8	0.03	0.13	3.93	4.06	0.12	1.77	1.89	_	2,836	2,836	0.11	0.03	0.20	2,850
% Reduced	50%	61%	-10%	_	66%	_	6%	66%	_	11%	_	_	_	_	_	_	_

Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.23	1.70	1.96	< 0.005	0.07	0.72	0.79	0.07	0.32	0.39	_	470	470	0.02	0.01	0.03	472
Mit.	0.12	0.66	2.15	< 0.005	0.02	0.72	0.74	0.02	0.32	0.35	_	470	470	0.02	0.01	0.03	472
% Reduced	50%	61%	-10%	_	66%	_	6%	66%	_	11%	_	_	_	_	_	_	_

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	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2028	3.33	25.0	28.0	0.06	1.10	14.4	15.5	1.01	6.91	7.92	_	6,986	6,986	0.27	0.10	1.52	7,022
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2028	5.49	42.7	47.6	0.12	1.79	17.5	19.3	1.64	7.23	8.87	_	12,971	12,971	0.52	0.11	0.03	13,017
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2028	1.25	9.32	10.7	0.03	0.39	3.93	4.32	0.36	1.77	2.13	_	2,836	2,836	0.11	0.03	0.20	2,850
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2028	0.23	1.70	1.96	< 0.005	0.07	0.72	0.79	0.07	0.32	0.39	_	470	470	0.02	0.01	0.03	472

2.3. Construction Emissions by Year, Mitigated

Year	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2028	1.62	8.95	28.2	0.06	0.34	14.4	14.6	0.31	6.91	7.13	_	6,986	6,986	0.27	0.10	1.52	7,022

Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2028	2.03	11.2	59.7	0.12	0.39	17.5	17.9	0.38	7.23	7.61	_	12,971	12,971	0.52	0.11	0.03	13,017
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2028	0.63	3.63	11.8	0.03	0.13	3.93	4.06	0.12	1.77	1.89	_	2,836	2,836	0.11	0.03	0.20	2,850
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2028	0.12	0.66	2.15	< 0.005	0.02	0.72	0.74	0.02	0.32	0.35	_	470	470	0.02	0.01	0.03	472

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.81	1.02	< 0.005	0.02	_	0.02	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.44	5.44	< 0.005	< 0.005	_	5.46

Demoliti	_	_	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.90	0.90	< 0.005	< 0.005	_	0.90
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.06	0.06	0.61	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	148	148	< 0.005	0.01	0.01	149
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.83	5.83	< 0.005	< 0.005	0.01	5.91
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.97	0.97	< 0.005	< 0.005	< 0.005	0.98
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
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

3.2. Demolition (2028) - Mitigated

			Í							vi i/yi iOi							
Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.81	1.02	< 0.005	0.02	_	0.02	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.44	5.44	< 0.005	< 0.005	_	5.46
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.90	0.90	< 0.005	< 0.005	_	0.90
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.61	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	148	148	< 0.005	0.01	0.01	149
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.83	5.83	< 0.005	< 0.005	0.01	5.91
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.97	0.97	< 0.005	< 0.005	< 0.005	0.98
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
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

3.3. Site Preparation (2028) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		42.7	47.0	0.12	1.79	_	1.79	1.64	_	1.64	_	12,824	12,824	0.52	0.10	_	12,868
Dust From Material Movemen	 t	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_

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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		3.62	3.99	0.01	0.15	_	0.15	0.14	_	0.14	-	1,089	1,089	0.04	0.01	_	1,093
Dust From Material Movemen	 t	_	_	_	_	1.47	1.47	_	0.61	0.61	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.66	0.73	< 0.005	0.03	_	0.03	0.03	_	0.03	-	180	180	0.01	< 0.005	-	181
Dust From Material Movemen	 t	_	_	_	_	0.27	0.27		0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.61	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	148	148	< 0.005	0.01	0.01	149
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.9	12.9	< 0.005	< 0.005	0.02	13.1
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

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
Annual	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_
Worker	< 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
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

3.4. Site Preparation (2028) - Mitigated

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ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
1.97 t	11.1	59.0	0.12	0.39	_	0.39	0.38	_	0.38	_	12,824	12,824	0.52	0.10	_	12,868
<u> </u>	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
0.17 t	0.94	5.01	0.01	0.03	_	0.03	0.03	_	0.03	_	1,089	1,089	0.04	0.01	_	1,093
 t	_	_	-	_	1.47	1.47	_	0.61	0.61	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
	ROG 1.97 t 0.00 0.17 t	ROG NOX	ROG NOX CO — — — — — — 1.97 11.1 59.0 t — — 0.00 0.00 0.00 — — — 0.17 0.94 5.01 t — —	ROG NOX CO SO2 — — — — — — 1.97 11.1 59.0 0.12 — — — 6 0.00 0.00 0.00 — — — 0.17 0.94 5.01 0.01 t — —	ROG NOX CO SO2 PM10E — — — — — — — — — — — — 1.97 t 11.1 59.0 0.12 0.39 — — — — 0.00 0.00 0.00 0.00 0.00 — — — — 0.17 t 0.94 5.01 0.01 0.03 1 — — — —	ROG NOX CO SO2 PM10E PM10D — — — — — — — — — — — — — — — 1.97 11.1 59.0 0.12 0.39 — — — — — 17.3 1.00 0.00 0.00 0.00 0.00 0.00 — — — — — — 0.17 0.94 5.01 0.01 0.03 — 1.47 — — — — 1.47	ROG NOX CO SO2 PM10E PM10D PM10T — — — — — — — — — — — — — — 1.97 11.1 59.0 0.12 0.39 — 0.39 — — — — 17.3 17.3 10.00 0.00 0.00 0.00 0.00 0.00 0.00 — — — — — — — 0.17 0.94 5.01 0.01 0.03 — 0.03 — — — — — 1.47 1.47	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E — <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D — <td< td=""><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 — — — — — — — — — — — — — — — — — — — 1.97 11.1 59.0 0.12 0.39 — 0.39 0.38 — 0.38 — — — — — 17.3 17.3 — 7.19 7.19 — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — 1.97 — — — — — 7.19 7.19 — — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — — — — — — —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T -<!--</td--><td>ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CCQT CH4 —</td></td></td<><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O </td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R </td></td>	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D — <td< td=""><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 — — — — — — — — — — — — — — — — — — — 1.97 11.1 59.0 0.12 0.39 — 0.39 0.38 — 0.38 — — — — — 17.3 17.3 — 7.19 7.19 — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — 1.97 — — — — — 7.19 7.19 — — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — — — — — — —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T -<!--</td--><td>ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CCQT CH4 —</td></td></td<> <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O </td> <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R </td>	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 — — — — — — — — — — — — — — — — — — — 1.97 11.1 59.0 0.12 0.39 — 0.39 0.38 — 0.38 — — — — — 17.3 17.3 — 7.19 7.19 — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — 1.97 — — — — — 7.19 7.19 — — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — — — — — — —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T - </td <td>ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CCQT CH4 —</td>	ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CCQT CH4 —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R

Annual	_	_	_	_	-	_	_	-	_	_	_	_	<u> </u>	_	_	_	_
Off-Road Equipmen		0.17	0.92	< 0.005	0.01	_	0.01	0.01	_	0.01	-	180	180	0.01	< 0.005	-	181
Dust From Material Movemen	 t	_	_	-	_	0.27	0.27	_	0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.61	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	148	148	< 0.005	0.01	0.01	149
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.9	12.9	< 0.005	< 0.005	0.02	13.1
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 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
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

3.5. Road Construction & Graveling (2028) - Unmitigated

Location	ROG	NOx	co	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		24.7	27.0	0.06	1.10	_	1.10	1.01	_	1.01	_	6,564	6,564	0.27	0.05	_	6,587
Dust From Material Movemen	 t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	-	_	_	-	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		24.7	27.0	0.06	1.10	_	1.10	1.01	_	1.01	_	6,564	6,564	0.27	0.05	_	6,587
Dust From Material Movemen	<u> </u>	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	_	_
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
Average Daily		_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Off-Road Equipmen		4.06	4.44	0.01	0.18	_	0.18	0.17	_	0.17	-	1,079	1,079	0.04	0.01	_	1,083
Dust From Material Movemen	 t		_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.74	0.81	< 0.005	0.03	_	0.03	0.03	_	0.03	_	179	179	0.01	< 0.005	_	179

Dust From Material Movemen	 t	_	_	_	_	0.42	0.42	_	0.21	0.21	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	-	_	_	_	_	-	_	_	_	_	_	_	_
Worker	0.06	0.04	0.85	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	167	167	< 0.005	0.01	0.48	170
Vendor	0.01	0.30	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	254	254	< 0.005	0.04	0.57	265
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Worker	0.06	0.06	0.61	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	148	148	< 0.005	0.01	0.01	149
Vendor	0.01	0.33	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	254	254	< 0.005	0.04	0.01	265
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	25.0	25.0	< 0.005	< 0.005	0.03	25.3
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	41.8	41.8	< 0.005	0.01	0.04	43.6
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.14	4.14	< 0.005	< 0.005	0.01	4.19
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.92	6.92	< 0.005	< 0.005	0.01	7.22
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

3.6. Road Construction & Graveling (2028) - Mitigated

Location	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		6.39	27.3	0.06	0.23	_	0.23	0.22	_	0.22	_	6,564	6,564	0.27	0.05	_	6,587
Dust From Material Movemen	 t	_	_	_	-	14.2	14.2	_	6.85	6.85	_	_	_	_	_	-	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-	_	_
Off-Road Equipmen		6.39	27.3	0.06	0.23	_	0.23	0.22	_	0.22	_	6,564	6,564	0.27	0.05	_	6,587
Dust From Material Movemen	 t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	-	_
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
Average Daily	_	_	_	_	_	_	-	_	_	_	_	_	_	_	-	_	_
Off-Road Equipmen		1.05	4.48	0.01	0.04	-	0.04	0.04	-	0.04	_	1,079	1,079	0.04	0.01	_	1,083
Dust From Material Movemen	<u> </u>	_	_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.19	0.82	< 0.005	0.01	_	0.01	0.01	_	0.01	_	179	179	0.01	< 0.005	_	179
Dust From Material Movement	 t	_	_	_	_	0.42	0.42	_	0.21	0.21	_	_	_	_	_	_	
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Worker	0.06	0.04	0.85	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	167	167	< 0.005	0.01	0.48	170
Vendor	0.01	0.30	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	254	254	< 0.005	0.04	0.57	265
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-	-
Worker	0.06	0.06	0.61	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	148	148	< 0.005	0.01	0.01	149
Vendor	0.01	0.33	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	254	254	< 0.005	0.04	0.01	265
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	25.0	25.0	< 0.005	< 0.005	0.03	25.3
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	41.8	41.8	< 0.005	0.01	0.04	43.6
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.14	4.14	< 0.005	< 0.005	0.01	4.19
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.92	6.92	< 0.005	< 0.005	0.01	7.22
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

3.7. Building Construction (2028) - Unmitigated

	ROG	NOx	co	SO2	PM10E	PM10D	PM10T	PM2.5E		MT/yr foi PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_					_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		3.22	3.70	0.01	0.13	_	0.13	0.12	_	0.12	_	1,019	1,019	0.04	0.01	-	1,023
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		3.22	3.70	0.01	0.13	_	0.13	0.12	_	0.12	_	1,019	1,019	0.04	0.01	_	1,023
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
Off-Road Equipmen		1.06	1.22	< 0.005	0.04	_	0.04	0.04	_	0.04	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.19	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	_	55.5	55.5	< 0.005	< 0.005	_	55.7
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.04	0.85	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	167	167	< 0.005	0.01	0.48	170
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

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
Daily, Winter (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.61	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	148	148	< 0.005	0.01	0.01	149
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	50.0	50.0	< 0.005	< 0.005	0.07	50.6
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	8.27	8.27	< 0.005	< 0.005	0.01	8.38
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
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

3.8. Building Construction (2028) - Mitigated

				<i>J</i> ,													
Location	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		3.22	3.70	0.01	0.13	_	0.13	0.12	_	0.12	_	1,019	1,019	0.04	0.01	_	1,023
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		3.22	3.70	0.01	0.13	_	0.13	0.12	_	0.12	_	1,019	1,019	0.04	0.01	_	1,023
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
Average Daily	_	_	_	_	_	_	-	_	-	<u> </u>	-	_	-	-	_	_	_
Off-Road Equipmen		1.06	1.22	< 0.005	0.04	_	0.04	0.04	_	0.04	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.19	0.22	< 0.005	0.01	_	0.01	0.01	-	0.01	-	55.5	55.5	< 0.005	< 0.005	_	55.7
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.04	0.85	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	167	167	< 0.005	0.01	0.48	170
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
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.06	0.06	0.61	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	148	148	< 0.005	0.01	0.01	149
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
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
Average Daily	_	-	_	_	_	_	-	_	_	_	_	_	-	-	_	_	_
Worker	0.02	0.02	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	50.0	50.0	< 0.005	< 0.005	0.07	50.6
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
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

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	8.27	8.27	< 0.005	< 0.005	0.01	8.38
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
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

3.9. Paving & Utilities (2028) - Unmitigated

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Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		5.34	6.98	0.02	0.21	_	0.21	0.19	_	0.19	_	1,933	1,933	0.08	0.02	_	1,939
Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Off-Road Equipmen		0.44	0.57	< 0.005	0.02	_	0.02	0.02	_	0.02	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.08	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	26.3	26.3	< 0.005	< 0.005	_	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	_	_	-	_	_	_	_	_	_	-	_	_
Worker	0.06	0.04	0.85	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	167	167	< 0.005	0.01	0.48	170
Vendor	0.01	0.30	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	254	254	< 0.005	0.04	0.57	265
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.5	12.5	< 0.005	< 0.005	0.02	12.7
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	20.9	20.9	< 0.005	< 0.005	0.02	21.8
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.07	2.07	< 0.005	< 0.005	< 0.005	2.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.46	3.46	< 0.005	< 0.005	< 0.005	3.61
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

3.10. Paving & Utilities (2028) - Mitigated

			•	<i>y</i> ,													
Location	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 Equipmer		5.34	6.98	0.02	0.21	_	0.21	0.19	_	0.19	_	1,933	1,933	0.08	0.02	_	1,939

Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Average Daily	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Off-Road Equipmen		0.44	0.57	< 0.005	0.02	_	0.02	0.02	_	0.02	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.08	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	26.3	26.3	< 0.005	< 0.005	_	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	-
Worker	0.06	0.04	0.85	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	167	167	< 0.005	0.01	0.48	170
Vendor	0.01	0.30	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	254	254	< 0.005	0.04	0.57	265
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily		_	_	_	_	_	_	_	_	_	_	_	_		_		_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.5	12.5	< 0.005	< 0.005	0.02	12.7
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	20.9	20.9	< 0.005	< 0.005	0.02	21.8

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
Annual	_	_	_	_	_	_	_	<u> </u>	<u> </u>	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.07	2.07	< 0.005	< 0.005	< 0.005	2.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.46	3.46	< 0.005	< 0.005	< 0.005	3.61
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

4. Operations Emissions Details

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	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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

		(110) 010	,	.,,,.		,		ne, ereny ne									
Species	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Total	_	l		_	l		_	_			
Iotal											

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

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

				19, 1011/91									ОООТ	0114	Noo	_	000
Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.51	BCO2	NBCO2	CO21	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	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																		
Winter Max) Max) Max Avoided — — — — — — — — — — — — — — — — — —	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest	Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove -	Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual — — — — — — — — — — — — — — — — — — —	Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided — — — — — — — — — — — — — — — — — —	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove — — — — — — — — — — — — — — — — — — —	Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	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	1/1/2028	1/20/2028	5.00	14.0	_
Site Preparation	Site Preparation	1/21/2028	3/3/2028	5.00	31.0	_

Road Construction & Graveling	Grading	3/4/2028	5/26/2028	5.00	60.0	_
Building Construction	Building Construction	5/27/2028	11/10/2028	5.00	120	_
Paving & Utilities	Paving	5/27/2028	7/7/2028	5.00	30.0	_

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
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Average	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Average	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Average	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Tier 4 Final	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area	Residential Exterior Area	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sg ft)
· · · · · · · · · · · · · · · · · · ·	r to ora or that it it or i or i or a	. toolaania. Entolloi 1 iloa			· arrang rada daataa (aq n)
	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	
	Coalcu (sq II)	Coaled (34 II)	Coaled (34 II)	Coaled (34 II)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	_	_
Site Preparation	_	_	155	0.00	_
Road Construction & Graveling	_	_	120	0.00	_
Paving & Utilities	0.00	0.00	0.00	0.00	3.42

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	3.42	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

	V		
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 Initial Acres Final 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)

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	26.1	annual days of extreme heat
Extreme Precipitation	2.25	annual days with precipitation above 20 mm

Sea Level Rise	_	meters of inundation depth
Wildfire	10.5	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	3	0	0	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	3	1	1	3

Extreme Precipitation	1	1	1	2
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
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	40.0
AQ-PM	23.6
AQ-DPM	14.9
Drinking Water	8.53
Lead Risk Housing	57.6
Pesticides	92.1
Toxic Releases	5.96
Traffic	2.81
Effect Indicators	_

CleanUp Sites	81.9
Groundwater	84.7
Haz Waste Facilities/Generators	43.3
Impaired Water Bodies	91.9
Solid Waste	83.3
Sensitive Population	_
Asthma	44.7
Cardio-vascular	91.2
Low Birth Weights	46.5
Socioeconomic Factor Indicators	_
Education	62.4
Housing	22.1
Linguistic	64.1
Poverty	65.4
Unemployment	14.4

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	34.05620429
Employed	22.03259335
Median HI	33.85089183
Education	_
Bachelor's or higher	36.60977801
High school enrollment	11.18952906
Preschool enrollment	63.87783909
Transportation	_

Auto Access	35.49339151
Active commuting	26.67778776
Social	_
2-parent households	15.50109072
Voting	78.08289491
Neighborhood	_
Alcohol availability	56.64057487
Park access	34.21018863
Retail density	3.054022841
Supermarket access	55.34453997
Tree canopy	68.09957654
Housing	_
Homeownership	59.19414859
Housing habitability	86.46220968
Low-inc homeowner severe housing cost burden	96.34287181
Low-inc renter severe housing cost burden	71.48723213
Uncrowded housing	57.46182471
Health Outcomes	_
Insured adults	36.77659438
Arthritis	0.0
Asthma ER Admissions	37.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	53.5

Cognitively Disabled	43.0
Physically Disabled	23.7
Heart Attack ER Admissions	4.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	_
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	10.6
Elderly	29.3
English Speaking	70.0
Foreign-born	29.8
Outdoor Workers	9.0
Climate Change Adaptive Capacity	_
Impervious Surface Cover	83.0
Traffic Density	2.1
Traffic Access	0.0
Other Indices	_
Hardship	61.9
Other Decision Support	_

2016 Voting	73.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	35.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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.

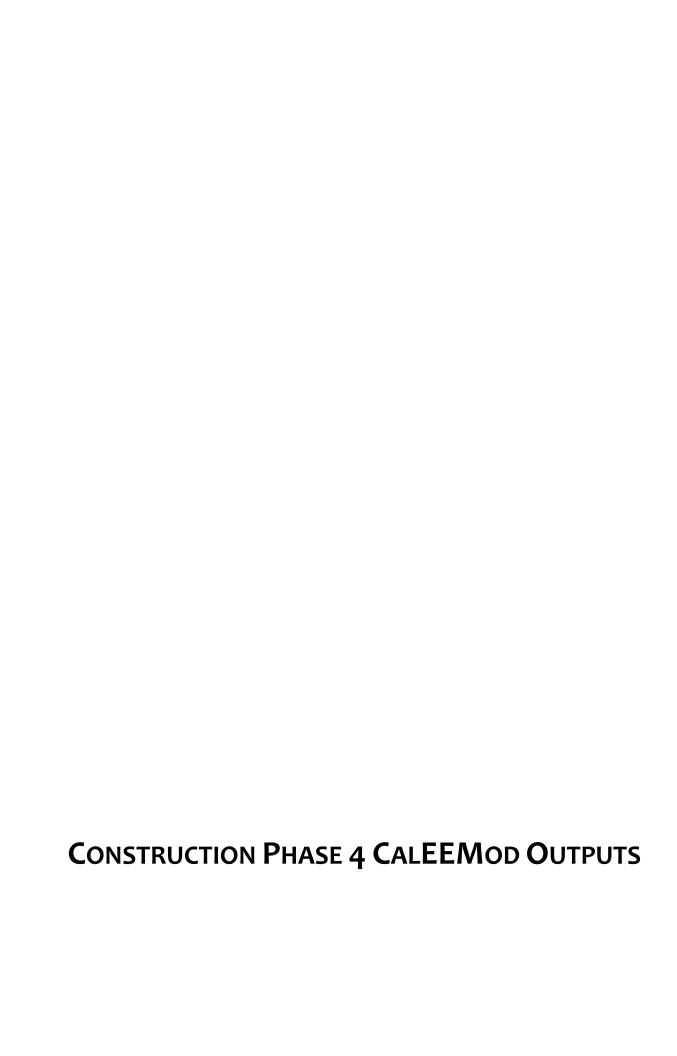
7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction phasing and timing updated to match the Project Description. Building construction along with paving and utilities assumed to occur simultaneously.
Construction: Off-Road Equipment	Equipment list updated to match the Project Description. Excavator added to demolition phase.
Construction: Trips and VMT	Worker, vendor and hauling trips updated to match the Project Description.
Land Use	Lot acreage adjusted to match the Project. Half of the total size (440,00 SF) accounted for in the modeling as the buildings will be premanufactured.

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.



Triple Crown- Construction Phase 4 Detailed Report

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- 3. Construction Emissions Details
 - 3.1. Demolition (2029) Unmitigated
 - 3.2. Demolition (2029) Mitigated
 - 3.3. Site Preparation (2029) Unmitigated
 - 3.4. Site Preparation (2029) Mitigated
 - 3.5. Road Construction & Graveling (2029) Unmitigated
 - 3.6. Road Construction & Graveling (2029) Mitigated

- 3.7. Building Construction (2029) Unmitigated
- 3.8. Building Construction (2029) Mitigated
- 3.9. Paving & Utilities (2029) Unmitigated
- 3.10. Paving & Utilities (2029) Mitigated
- 4. Operations Emissions Details
 - 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
- 5.18. 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	Triple Crown- Construction Phase 4
Construction Start Date	1/1/2029
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	1.20
Location	39.18629186944287, -122.02889407786444
County	Colusa
City	Colusa
Air District	Colusa County APCD
Air Basin	Sacramento Valley
TAZ	229
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)		Special Landscape Area (sq ft)	Population	Description
Manufacturing	220	1000sqft	13.8	220,000	0.00	_	_	_
Parking Lot	380	Space	3.42	0.00	0.00	_	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

								` -				· .		_			_
Un/Mit.	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.23	23.3	27.6	0.06	1.03	14.4	15.4	0.95	6.91	7.86	_	6,974	6,974	0.27	0.09	1.36	7,010
Mit.	1.58	8.47	28.1	0.06	0.32	14.4	14.6	0.29	6.91	7.12	_	6,974	6,974	0.27	0.09	1.36	7,010
% Reduced	51%	64%	-2%	_	69%	_	5%	69%	_	9%	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.33	39.7	46.9	0.12	1.66	17.5	19.2	1.53	7.23	8.76	_	12,965	12,965	0.52	0.11	0.02	13,011
Mit.	2.00	10.8	59.5	0.12	0.38	17.5	17.9	0.36	7.23	7.59	_	12,965	12,965	0.52	0.11	0.02	13,011
% Reduced	62%	73%	-27%	_	77%	_	7%	76%	_	13%	_	_	_	_	_	_	_
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.20	8.58	10.5	0.02	0.36	3.88	4.25	0.33	1.75	2.08	_	2,798	2,798	0.11	0.03	0.18	2,811
Mit.	0.61	3.42	11.6	0.02	0.12	3.88	4.01	0.12	1.75	1.87	_	2,798	2,798	0.11	0.03	0.18	2,811
% Reduced	49%	60%	-11%	_	66%	_	6%	65%	_	10%	_	_	_	_	_	_	_

Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.22	1.57	1.91	< 0.005	0.07	0.71	0.78	0.06	0.32	0.38	_	463	463	0.02	0.01	0.03	465
Mit.	0.11	0.62	2.11	< 0.005	0.02	0.71	0.73	0.02	0.32	0.34	_	463	463	0.02	0.01	0.03	465
% Reduced	49%	60%	-11%	_	66%	_	6%	65%	_	10%	_	_	_	_	_	_	_

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	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Icai	NOC	IVOX		002	TIVITOL	I WITOD	I WITOT	I WIZ.UL	I IVIZ.UD	1 1012.01	D002	NDCCZ	0021	OTIT	1120	IX.	0026
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2029	3.23	23.3	27.6	0.06	1.03	14.4	15.4	0.95	6.91	7.86	_	6,974	6,974	0.27	0.09	1.36	7,010
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2029	5.33	39.7	46.9	0.12	1.66	17.5	19.2	1.53	7.23	8.76	_	12,965	12,965	0.52	0.11	0.02	13,011
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2029	1.20	8.58	10.5	0.02	0.36	3.88	4.25	0.33	1.75	2.08	_	2,798	2,798	0.11	0.03	0.18	2,811
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2029	0.22	1.57	1.91	< 0.005	0.07	0.71	0.78	0.06	0.32	0.38	_	463	463	0.02	0.01	0.03	465

2.3. Construction Emissions by Year, Mitigated

Year	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2029	1.58	8.47	28.1	0.06	0.32	14.4	14.6	0.29	6.91	7.12	_	6,974	6,974	0.27	0.09	1.36	7,010

Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2029	2.00	10.8	59.5	0.12	0.38	17.5	17.9	0.36	7.23	7.59	_	12,965	12,965	0.52	0.11	0.02	13,011
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2029	0.61	3.42	11.6	0.02	0.12	3.88	4.01	0.12	1.75	1.87	_	2,798	2,798	0.11	0.03	0.18	2,811
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2029	0.11	0.62	2.11	< 0.005	0.02	0.71	0.73	0.02	0.32	0.34	_	463	463	0.02	0.01	0.03	465

3. Construction Emissions Details

3.1. Demolition (2029) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.80	1.02	< 0.005	0.02	_	0.02	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.83	5.83	< 0.005	< 0.005	_	5.85

Demoliti	_	_	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.97	0.97	< 0.005	< 0.005	_	0.97
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	145	145	< 0.005	0.01	0.01	147
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.13	6.13	< 0.005	< 0.005	0.01	6.22
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.02	1.02	< 0.005	< 0.005	< 0.005	1.03
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
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

3.2. Demolition (2029) - Mitigated

			Í						n uany, i								
Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.80	1.02	< 0.005	0.02	_	0.02	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.83	5.83	< 0.005	< 0.005	_	5.85
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.97	0.97	< 0.005	< 0.005	_	0.97
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	145	145	< 0.005	0.01	0.01	147
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.13	6.13	< 0.005	< 0.005	0.01	6.22
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.02	1.02	< 0.005	< 0.005	< 0.005	1.03
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
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

3.3. Site Preparation (2029) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		39.6	46.4	0.12	1.66	_	1.66	1.53	_	1.53	_	12,821	12,821	0.52	0.10	_	12,865
Dust From Material Movemen	 t	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_

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
Average Daily	_	_	_	_	-	_	_	_	_	_	-	_	_	_	_	-	_
Off-Road Equipmer		3.26	3.81	0.01	0.14	_	0.14	0.13	_	0.13	_	1,054	1,054	0.04	0.01	_	1,057
Dust From Material Movemen	t	-	_	_	_	1.43	1.43	_	0.59	0.59	_	_	_	_	_	_	
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.59	0.70	< 0.005	0.02	_	0.02	0.02	_	0.02	_	174	174	0.01	< 0.005	-	175
Dust From Material Movemen	t	_	_	_	_	0.26	0.26	_	0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	-
Worker	0.05	0.05	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	145	145	< 0.005	0.01	0.01	147
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.3	12.3	< 0.005	< 0.005	0.02	12.4
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

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
Annual	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.03	2.03	< 0.005	< 0.005	< 0.005	2.06
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
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

3.4. Site Preparation (2029) - Mitigated

			any, tony					or daily, i		armaar	1					
ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
1.96 t	10.7	59.0	0.12	0.38	_	0.38	0.36	_	0.36	_	12,821	12,821	0.52	0.10	_	12,865
 t	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
0.16 t	0.88	4.85	0.01	0.03	_	0.03	0.03	_	0.03	_	1,054	1,054	0.04	0.01	_	1,057
t	_	_	-	_	1.43	1.43	_	0.59	0.59	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
	ROG 1.96 t 0.00 0.16 t	ROG NOX	ROG NOX CO — — — — — — 1.96 10.7 59.0 t — — 0.00 0.00 0.00 — — — 0.16 0.88 4.85 t — —	ROG NOX CO SO2 — — — — — — 1.96 10.7 59.0 0.12 — — — 6 0.00 0.00 0.00 — — — — 0.16 0.88 4.85 0.01 — — — —	ROG NOX CO SO2 PM10E — — — — — — — — — — — — 1.96 t 10.7 59.0 0.12 0.38 t — — — s 0.00 0.00 0.00 0.00 — — — — 0.16 t 0.88 4.85 0.01 0.03 t — — — —	ROG NOX CO SO2 PM10E PM10D — — — — — — — — — — — — — — — 1.96 t 10.7 59.0 0.12 0.38 — — — — — 17.3 5 0.00 0.00 0.00 0.00 0.00 — — — — — 0.16 t 0.88 4.85 0.01 0.03 — 1.43 — — — — 1.43	ROG NOx CO SO2 PM10E PM10D PM10T — — — — — — — — — — — — — — — — — — 1.96 t 10.7 59.0 0.12 0.38 — 0.38 — — — — — 17.3 17.3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — — — — — — 0.16 t 0.88 4.85 0.01 0.03 — 0.03 — — — — — 1.43 1.43	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E — <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D — <td< td=""><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 — — — — — — — — — — — — — — — — — — — 1.96 10.7 59.0 0.12 0.38 — 0.38 0.36 — 0.36 — — — — — 17.3 17.3 — 7.19 7.19 — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — 0.01 0.02 0.03 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T —<!--</td--><td>ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CCQT CH4 —</td></td></td<><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O </td><td>ROG NOX CO SO2 PM10E PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R </td></td>	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D — <td< td=""><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 — — — — — — — — — — — — — — — — — — — 1.96 10.7 59.0 0.12 0.38 — 0.38 0.36 — 0.36 — — — — — 17.3 17.3 — 7.19 7.19 — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — 0.01 0.02 0.03 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T —<!--</td--><td>ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CCQT CH4 —</td></td></td<> <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O </td> <td>ROG NOX CO SO2 PM10E PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R </td>	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 — — — — — — — — — — — — — — — — — — — 1.96 10.7 59.0 0.12 0.38 — 0.38 0.36 — 0.36 — — — — — 17.3 17.3 — 7.19 7.19 — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — 0.01 0.02 0.03 —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T — </td <td>ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CCQT CH4 —</td>	ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CCQT CH4 —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O	ROG NOX CO SO2 PM10E PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.16	0.88	< 0.005	0.01	_	0.01	0.01	_	0.01	_	174	174	0.01	< 0.005	-	175
Dust From Material Movemen	 t	_	_	_	_	0.26	0.26	_	0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	145	145	< 0.005	0.01	0.01	147
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.3	12.3	< 0.005	< 0.005	0.02	12.4
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.03	2.03	< 0.005	< 0.005	< 0.005	2.06
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
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

3.5. Road Construction & Graveling (2029) - Unmitigated

Location	ROG	NOx	co	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		23.0	26.8	0.06	1.03	_	1.03	0.95	_	0.95	_	6,562	6,562	0.27	0.05	_	6,585
Dust From Material Movemen	 t	-	-	-	_	14.2	14.2	-	6.85	6.85	_	-	_	_	_	_	-
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		23.0	26.8	0.06	1.03	_	1.03	0.95	_	0.95	_	6,562	6,562	0.27	0.05	_	6,585
Dust From Material Movemen	_ t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	_	-
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
Average Daily	_	_	_	_	_	_	_	-	_	_	-	_	-	_	_	_	-
Off-Road Equipmen		3.78	4.40	0.01	0.17	_	0.17	0.16	-	0.16	-	1,079	1,079	0.04	0.01	_	1,082
Dust From Material Movemen	<u> </u>	_	_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.69	0.80	< 0.005	0.03	_	0.03	0.03	-	0.03	_	179	179	0.01	< 0.005	_	179

Dust From Material Movemen	 t	_	_	_	_	0.42	0.42	_	0.21	0.21	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Worker	0.06	0.04	0.79	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	164	164	< 0.005	0.01	0.43	167
Vendor	0.01	0.29	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	247	247	< 0.005	0.04	0.51	259
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	145	145	< 0.005	0.01	0.01	147
Vendor	0.01	0.31	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	248	248	< 0.005	0.04	0.01	258
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	24.5	24.5	< 0.005	< 0.005	0.03	24.9
Vendor	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	40.7	40.7	< 0.005	0.01	0.04	42.5
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.06	4.06	< 0.005	< 0.005	0.01	4.12
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.73	6.73	< 0.005	< 0.005	0.01	7.03
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

3.6. Road Construction & Graveling (2029) - Mitigated

Location	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		6.05	27.2	0.06	0.22	_	0.22	0.21	_	0.21	_	6,562	6,562	0.27	0.05	_	6,585
Dust From Material Movemen	 t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	-	_
Off-Road Equipmen		6.05	27.2	0.06	0.22	_	0.22	0.21	_	0.21	_	6,562	6,562	0.27	0.05	_	6,585
Dust From Material Movemen	 t	_	_	-	_	14.2	14.2	_	6.85	6.85	_	_	_	-	_	_	_
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.99	4.47	0.01	0.04	-	0.04	0.03	-	0.03	_	1,079	1,079	0.04	0.01	_	1,082
Dust From Material Movemen	<u> </u>	_	_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1_

Off-Road Equipmen		0.18	0.82	< 0.005	0.01	_	0.01	0.01	_	0.01	_	179	179	0.01	< 0.005	_	179
Dust From Material Movemen	 t	_	_	_		0.42	0.42	_	0.21	0.21	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Worker	0.06	0.04	0.79	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	164	164	< 0.005	0.01	0.43	167
Vendor	0.01	0.29	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	247	247	< 0.005	0.04	0.51	259
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	145	145	< 0.005	0.01	0.01	147
Vendor	0.01	0.31	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	248	248	< 0.005	0.04	0.01	258
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	24.5	24.5	< 0.005	< 0.005	0.03	24.9
Vendor	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	40.7	40.7	< 0.005	0.01	0.04	42.5
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.06	4.06	< 0.005	< 0.005	0.01	4.12
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.73	6.73	< 0.005	< 0.005	0.01	7.03
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

3.7. Building Construction (2029) - Unmitigated

	ROG	NOx	co	SO2	PM10E	PM10D	PM10T	PM2.5E	or daily, I	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
							TWITOT	T WIZ.JL	T IVIZ.OD	T IVIZ.OT			0021	OH	INZO	IX.	
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)																	
Off-Road Equipmen		3.00	3.67	0.01	0.12	_	0.12	0.11	_	0.11	_	1,019	1,019	0.04	0.01	_	1,023
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
Daily, Winter (Max)	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		3.00	3.67	0.01	0.12	_	0.12	0.11	_	0.11	_	1,019	1,019	0.04	0.01	_	1,023
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.99	1.21	< 0.005	0.04	_	0.04	0.04	_	0.04	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	_	55.5	55.5	< 0.005	< 0.005	_	55.7
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	-	_	_	-	_	-	_	_	-	_	_	-	-	_
Worker	0.06	0.04	0.79	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	164	164	< 0.005	0.01	0.43	167
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

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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	145	145	< 0.005	0.01	0.01	147
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.01	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	49.1	49.1	< 0.005	< 0.005	0.06	49.7
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	8.12	8.12	< 0.005	< 0.005	0.01	8.23
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
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

3.8. Building Construction (2029) - Mitigated

				<i>J</i> ,													
Location	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		3.00	3.67	0.01	0.12	_	0.12	0.11	_	0.11	_	1,019	1,019	0.04	0.01	_	1,023
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		3.00	3.67	0.01	0.12	_	0.12	0.11	_	0.11	_	1,019	1,019	0.04	0.01	_	1,023
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
Average Daily	_	_	_	_	_	_	-	_	-	_	-	_	-	-	_	_	_
Off-Road Equipmen		0.99	1.21	< 0.005	0.04	_	0.04	0.04	_	0.04	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	-	55.5	55.5	< 0.005	< 0.005	_	55.7
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_
Worker	0.06	0.04	0.79	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	164	164	< 0.005	0.01	0.43	167
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
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-
Worker	0.05	0.05	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	145	145	< 0.005	0.01	0.01	147
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
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
Average Daily	_	-	_	_	_	-	_	_	-	_	-	_	-	_	_	_	-
Worker	0.02	0.01	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	49.1	49.1	< 0.005	< 0.005	0.06	49.7
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
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

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	<u> </u>	8.12	8.12	< 0.005	< 0.005	0.01	8.23
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
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

3.9. Paving & Utilities (2029) - Unmitigated

O 11101101	C 11 C 11 C 11	10 (10) 01	ay ioi da	ily, tolly	TOT GITT	daily dirid	U UU ,	1.07 0.0.9		viii/yi ioi	J. 11 1 J. J.	/					
Location	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		5.10	6.95	0.02	0.19	_	0.19	0.18	_	0.18	_	1,933	1,933	0.08	0.02	_	1,940
Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.42	0.57	< 0.005	0.02	_	0.02	0.01	_	0.01	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.08	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	26.3	26.3	< 0.005	< 0.005	_	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Worker	0.06	0.04	0.79	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	164	164	< 0.005	0.01	0.43	167
Vendor	0.01	0.29	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	247	247	< 0.005	0.04	0.51	259
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.3	12.3	< 0.005	< 0.005	0.02	12.4
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	20.3	20.3	< 0.005	< 0.005	0.02	21.2
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.03	2.03	< 0.005	< 0.005	< 0.005	2.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.37	3.37	< 0.005	< 0.005	< 0.005	3.52
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

3.10. Paving & Utilities (2029) - Mitigated

Location	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 Equipmer		5.10	6.95	0.02	0.19	_	0.19	0.18	_	0.18	_	1,933	1,933	0.08	0.02	_	1,940

Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	0.00	0.00	0.00	0.00	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		0.42	0.57	< 0.005	0.02	_	0.02	0.01	_	0.01	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.08	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	-	26.3	26.3	< 0.005	< 0.005	-	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.04	0.79	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	164	164	< 0.005	0.01	0.43	167
Vendor	0.01	0.29	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	247	247	< 0.005	0.04	0.51	259
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.3	12.3	< 0.005	< 0.005	0.02	12.4
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	20.3	20.3	< 0.005	< 0.005	0.02	21.2

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
Annual	_	_	_	_	_	_	<u> </u>	_	<u> </u>	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.03	2.03	< 0.005	< 0.005	< 0.005	2.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.37	3.37	< 0.005	< 0.005	< 0.005	3.52
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

4. Operations Emissions Details

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	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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

		(1.0) 0.0.		J, J.				,									
Species	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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Vegetatio n	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																	
Iotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

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

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_		<u> </u>	_	_	<u> </u>	_	_	_	_	<u> </u>	_	_	_		_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	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																		
Winter Max) Max) Max Avoided — — — — — — — — — — — — — — — — — —	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest	Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove -	Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual — — — — — — — — — — — — — — — — — — —	Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided — — — — — — — — — — — — — — — — — —	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove — — — — — — — — — — — — — — — — — — —	Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	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	1/1/2029	1/20/2029	5.00	15.0	_
Site Preparation	Site Preparation	1/21/2029	3/3/2029	5.00	30.0	_

Road Construction & Graveling	Grading	3/4/2029	5/26/2029	5.00	60.0	_
Building Construction	Building Construction	5/27/2029	11/10/2029	5.00	120	_
Paving & Utilities	Paving	5/27/2029	7/7/2029	5.00	30.0	_

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
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Average	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Average	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Average	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Tier 4 Final	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area	Residential Exterior Area	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sg ft)
· · · · · · · · · · · · · · · · · · ·	r to ora or that i more or i most	. toolaania. Entolloi 1 iloa			· arrang rada daataa (aq n)
	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	
	Coalcu (sq II)	Coaled (34 II)	Coaled (34 II)	Coaled (34 II)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	_	_
Site Preparation	_	_	150	0.00	_
Road Construction & Graveling	_	_	120	0.00	_
Paving & Utilities	0.00	0.00	0.00	0.00	3.42

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	3.42	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2029	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

	V		
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 Initial Acres Final 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)

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	26.1	annual days of extreme heat
Extreme Precipitation	2.25	annual days with precipitation above 20 mm

Sea Level Rise	_	meters of inundation depth
Wildfire	10.5	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	3	0	0	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	3	1	1	3

Extreme Precipitation	1	1	1	2
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
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	40.0
AQ-PM	23.6
AQ-DPM	14.9
Drinking Water	8.53
Lead Risk Housing	57.6
Pesticides	92.1
Toxic Releases	5.96
Traffic	2.81
Effect Indicators	_

CleanUp Sites	81.9
Groundwater	84.7
Haz Waste Facilities/Generators	43.3
Impaired Water Bodies	91.9
Solid Waste	83.3
Sensitive Population	_
Asthma	44.7
Cardio-vascular	91.2
Low Birth Weights	46.5
Socioeconomic Factor Indicators	_
Education	62.4
Housing	22.1
Linguistic	64.1
Poverty	65.4
Unemployment	14.4

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	34.05620429
Employed	22.03259335
Median HI	33.85089183
Education	_
Bachelor's or higher	36.60977801
High school enrollment	11.18952906
Preschool enrollment	63.87783909
Transportation	_

Auto Access	35.49339151
Active commuting	26.67778776
Social	_
2-parent households	15.50109072
Voting	78.08289491
Neighborhood	_
Alcohol availability	56.64057487
Park access	34.21018863
Retail density	3.054022841
Supermarket access	55.34453997
Tree canopy	68.09957654
Housing	_
Homeownership	59.19414859
Housing habitability	86.46220968
Low-inc homeowner severe housing cost burden	96.34287181
Low-inc renter severe housing cost burden	71.48723213
Uncrowded housing	57.46182471
Health Outcomes	_
Insured adults	36.77659438
Arthritis	0.0
Asthma ER Admissions	37.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	53.5

Cognitively Disabled	43.0
Physically Disabled	23.7
Heart Attack ER Admissions	4.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	_
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	10.6
Elderly	29.3
English Speaking	70.0
Foreign-born	29.8
Outdoor Workers	9.0
Climate Change Adaptive Capacity	_
Impervious Surface Cover	83.0
Traffic Density	2.1
Traffic Access	0.0
Other Indices	_
Hardship	61.9
Other Decision Support	_

2016 Voting	73.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	35.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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.

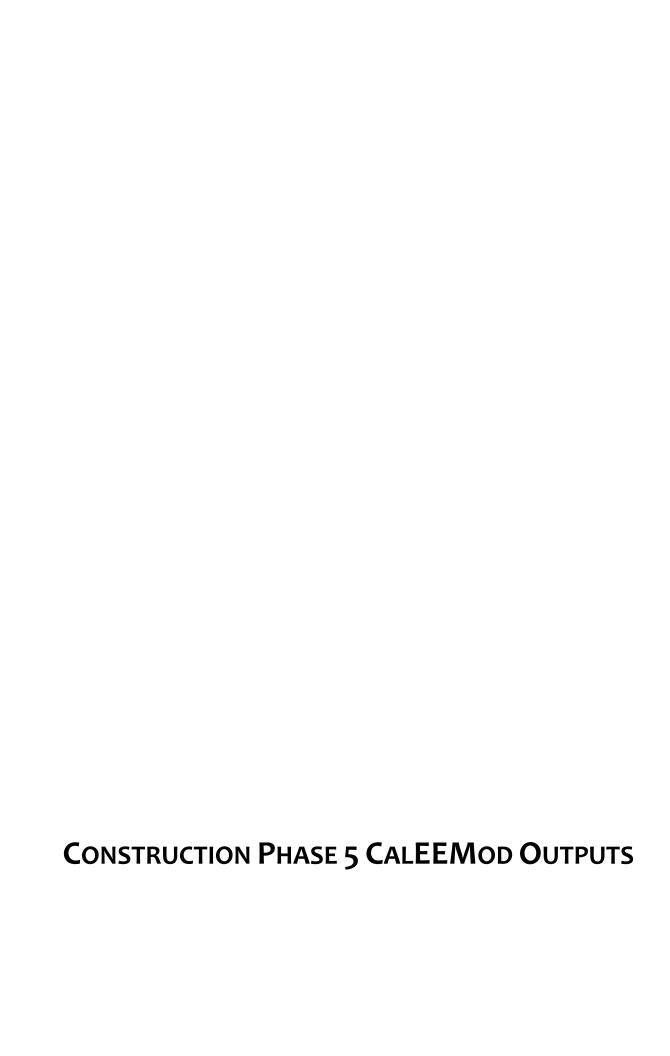
7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction phasing and timing updated to match the Project Description. Building construction along with paving and utilities assumed to occur simultaneously.
Construction: Off-Road Equipment	Equipment list updated to match the Project Description. Excavator added to demolition phase.
Construction: Trips and VMT	Worker, vendor and hauling trips updated to match the Project Description.
Land Use	Lot acreage adjusted to match the Project. Half of the total size (440,00 SF) accounted for in the modeling as the buildings will be premanufactured.

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.



Triple Crown- Construction Phase 5 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Triple Crown- Construction Phase 5
Construction Start Date	1/1/2030
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	1.20
Location	39.18629186944287, -122.02889407786444
County	Colusa
City	Colusa
Air District	Colusa County APCD
Air Basin	Sacramento Valley
TAZ	229
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Manufacturing	220	1000sqft	13.8	220,000	0.00	_	_	_
Parking Lot	380	Space	3.42	0.00	0.00	_	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

		_ `						•									
Un/Mit.	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.16	22.4	27.8	0.06	1.01	14.4	15.4	0.93	6.91	7.83	_	6,964	6,964	0.27	0.09	1.21	6,999
Mit.	1.53	8.16	28.0	0.06	0.30	14.4	14.6	0.28	6.91	7.11	_	6,964	6,964	0.27	0.09	1.21	6,999
% Reduced	52%	64%	-1%	_	70%	_	5%	70%	_	9%	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.21	37.7	46.9	0.12	1.61	17.5	19.1	1.49	7.23	8.72	_	12,963	12,963	0.52	0.11	0.02	13,009
Mit.	1.98	10.5	59.5	0.12	0.37	17.5	17.9	0.35	7.23	7.58	_	12,963	12,963	0.52	0.11	0.02	13,009
% Reduced	62%	72%	-27%	_	77%	_	7%	76%	_	13%	_	_	_	_	_	_	_
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.17	8.21	10.5	0.02	0.35	3.88	4.24	0.32	1.75	2.07	_	2,793	2,793	0.11	0.03	0.16	2,806
Mit.	0.60	3.31	11.5	0.02	0.12	3.88	4.00	0.11	1.75	1.86	_	2,793	2,793	0.11	0.03	0.16	2,806
% Reduced	49%	60%	-10%	_	66%	_	5%	65%	_	10%	_	_	_	_	_	_	_

Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.21	1.50	1.91	< 0.005	0.06	0.71	0.77	0.06	0.32	0.38	_	462	462	0.02	0.01	0.03	465
Mit.	0.11	0.60	2.10	< 0.005	0.02	0.71	0.73	0.02	0.32	0.34	_	462	462	0.02	0.01	0.03	465
% Reduced	49%	60%	-10%	_	66%	_	5%	65%	_	10%	_	_	_	_	_	_	_

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	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2030	3.16	22.4	27.8	0.06	1.01	14.4	15.4	0.93	6.91	7.83	_	6,964	6,964	0.27	0.09	1.21	6,999
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2030	5.21	37.7	46.9	0.12	1.61	17.5	19.1	1.49	7.23	8.72	_	12,963	12,963	0.52	0.11	0.02	13,009
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2030	1.17	8.21	10.5	0.02	0.35	3.88	4.24	0.32	1.75	2.07	_	2,793	2,793	0.11	0.03	0.16	2,806
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2030	0.21	1.50	1.91	< 0.005	0.06	0.71	0.77	0.06	0.32	0.38	_	462	462	0.02	0.01	0.03	465

2.3. Construction Emissions by Year, Mitigated

Year	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2030	1.53	8.16	28.0	0.06	0.30	14.4	14.6	0.28	6.91	7.11		6,964	6,964	0.27	0.09	1.21	6,999

Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2030	1.98	10.5	59.5	0.12	0.37	17.5	17.9	0.35	7.23	7.58	_	12,963	12,963	0.52	0.11	0.02	13,009
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2030	0.60	3.31	11.5	0.02	0.12	3.88	4.00	0.11	1.75	1.86	_	2,793	2,793	0.11	0.03	0.16	2,806
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2030	0.11	0.60	2.10	< 0.005	0.02	0.71	0.73	0.02	0.32	0.34	_	462	462	0.02	0.01	0.03	465

3. Construction Emissions Details

3.1. Demolition (2030) - Unmitigated

Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.80	1.01	< 0.005	0.02	_	0.02	0.01	_	0.01	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.44	5.44	< 0.005	< 0.005	_	5.46

Demoliti	_	_	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.90	0.90	< 0.005	< 0.005	_	0.90
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	0.05	0.05	0.53	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	142	142	< 0.005	0.01	0.01	144
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.62	5.62	< 0.005	< 0.005	0.01	5.70
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.93	0.93	< 0.005	< 0.005	< 0.005	0.94
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
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

3.2. Demolition (2030) - Mitigated

			Í				GI IGS (
Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.80	1.01	< 0.005	0.02	_	0.02	0.01	_	0.01	_	142	142	0.01	< 0.005	_	142
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.44	5.44	< 0.005	< 0.005	_	5.46
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.90	0.90	< 0.005	< 0.005	_	0.90
Demoliti on	_	_	_	_	_	0.00	0.00	_	0.00	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_
Worker	0.05	0.05	0.53	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	142	142	< 0.005	0.01	0.01	144
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.62	5.62	< 0.005	< 0.005	0.01	5.70
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.93	0.93	< 0.005	< 0.005	< 0.005	0.94
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
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

3.3. Site Preparation (2030) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		37.6	46.4	0.12	1.61	_	1.61	1.49	_	1.49	_	12,820	12,820	0.52	0.10	_	12,864
Dust From Material Movemen	 t	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_

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
Average Daily	_	_	_	_	_	-	_	-	_	_	-	_	_	_	_	-	_
Off-Road Equipmen		3.09	3.81	0.01	0.13	_	0.13	0.12	_	0.12	_	1,054	1,054	0.04	0.01	_	1,057
Dust From Material Movemen	 t	_	_	_	_	1.43	1.43	_	0.59	0.59	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.56	0.70	< 0.005	0.02	_	0.02	0.02	_	0.02	_	174	174	0.01	< 0.005	-	175
Dust From Material Movemen	<u> </u>	_	_	_	_	0.26	0.26	_	0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-
Worker	0.05	0.05	0.53	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	142	142	< 0.005	0.01	0.01	144
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.1	12.1	< 0.005	< 0.005	0.01	12.2
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

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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.00	2.00	< 0.005	< 0.005	< 0.005	2.02
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
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

3.4. Site Preparation (2030) - Mitigated

				l loi ailii				or daily, i		ariridar	_					
ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
1.94 t	10.5	59.0	0.12	0.37	_	0.37	0.35	_	0.35	_	12,820	12,820	0.52	0.10	_	12,864
<u> </u>	_	_	_	_	17.3	17.3	_	7.19	7.19	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
0.16 t	0.86	4.85	0.01	0.03	_	0.03	0.03	_	0.03	_	1,054	1,054	0.04	0.01	_	1,057
 t	_	_	_	_	1.43	1.43	_	0.59	0.59	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
	ROG 1.94 t 0.00 0.16 t	ROG NOX	ROG NOX CO — — — — — — 1.94 10.5 59.0 t — — 0.00 0.00 0.00 — — — 0.16 0.86 4.85 t — —	ROG NOX CO SO2 — — — — — — 1.94 10.5 59.0 0.12 — — — 6 0.00 0.00 0.00 — — — — 0.16 0.86 4.85 0.01 — — — —	ROG NOX CO SO2 PM10E — — — — — — — — — — — — 1.94 t 10.5 59.0 0.12 0.37 t — — — s 0.00 0.00 0.00 0.00 — — — — 0.16 t 0.86 4.85 0.01 0.03 t — — — —	ROG NOX CO SO2 PM10E PM10D — — — — — — — — — — — — — — — 1.94 10.5 59.0 0.12 0.37 — — — — — 17.3 5 0.00 0.00 0.00 0.00 0.00 — — — — — — 0.16 0.86 4.85 0.01 0.03 — 1.43 — — — — 1.43	ROG NOx CO SO2 PM10E PM10D PM10T — — — — — — — — — — — — — — — — — — 1.94 10.5 59.0 0.12 0.37 — 0.37 — — — — 17.3 17.3 10.00 0.00 0.00 0.00 0.00 0.00 0.00 — — — — — — — 0.16 0.86 4.85 0.01 0.03 — 0.03 — — — — — 1.43 1.43	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E — <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D — <td< td=""><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 — — — — — — — — — — — — — — — — — — — 1.94 10.5 59.0 0.12 0.37 — 0.37 0.35 — 0.35 — — — — — 17.3 17.3 — 7.19 7.19 — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — 0.01 0.02 0.03 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T -<!--</td--><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O </td><td>ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R </td></td></td<></td>	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D — <td< td=""><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 — — — — — — — — — — — — — — — — — — — 1.94 10.5 59.0 0.12 0.37 — 0.37 0.35 — 0.35 — — — — — 17.3 17.3 — 7.19 7.19 — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — 0.01 0.02 0.03 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T -<!--</td--><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 —</td><td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O </td><td>ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R </td></td></td<>	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 — — — — — — — — — — — — — — — — — — — 1.94 10.5 59.0 0.12 0.37 — 0.37 0.35 — 0.35 — — — — — 17.3 17.3 — 7.19 7.19 — 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 — 0.01 0.02 0.03 —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T - </td <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 —</td> <td>ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O </td> <td>ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R </td>	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 —	ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O	ROG NOX CO SO2 PM10D PM10D PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4 N2O R

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.16	0.88	< 0.005	0.01	_	0.01	0.01	_	0.01	_	174	174	0.01	< 0.005	_	175
Dust From Material Movemen	 t	-	_	_	_	0.26	0.26	_	0.11	0.11	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.53	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	142	142	< 0.005	0.01	0.01	144
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_			_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.1	12.1	< 0.005	< 0.005	0.01	12.2
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.00	2.00	< 0.005	< 0.005	< 0.005	2.02
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
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

3.5. Road Construction & Graveling (2030) - Unmitigated

Location	ROG	NOx	co	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		22.1	27.0	0.06	1.00	_	1.00	0.92	_	0.92	_	6,562	6,562	0.27	0.05	_	6,585
Dust From Material Movemen	 t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	-	_	_	-	_	_
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
Daily, Winter (Max)	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		22.1	27.0	0.06	1.00	_	1.00	0.92	_	0.92	_	6,562	6,562	0.27	0.05	_	6,585
Dust From Material Movemen	<u> </u>	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	_	_
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
Average Daily	_	-	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Off-Road Equipmen		3.63	4.43	0.01	0.17	_	0.17	0.15	_	0.15	_	1,079	1,079	0.04	0.01	_	1,082
Dust From Material Movemen	 t		_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.66	0.81	< 0.005	0.03	_	0.03	0.03	_	0.03	_	179	179	0.01	< 0.005	_	179

Dust From Material Movemen	 t	_			_	0.42	0.42	_	0.21	0.21	_		_				_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	-	_	_	_	_	-	_	_	-	_	_	_	_
Worker	0.05	0.03	0.74	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	162	162	< 0.005	0.01	0.38	164
Vendor	0.01	0.28	0.08	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	240	240	< 0.005	0.03	0.45	251
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
Daily, Winter (Max)	_	-	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Worker	0.05	0.05	0.53	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	142	142	< 0.005	0.01	0.01	144
Vendor	0.01	0.30	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	240	240	< 0.005	0.03	0.01	251
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	24.1	24.1	< 0.005	< 0.005	0.03	24.4
Vendor	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	39.5	39.5	< 0.005	0.01	0.03	41.2
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	3.99	3.99	< 0.005	< 0.005	< 0.005	4.04
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.54	6.54	< 0.005	< 0.005	0.01	6.82
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

3.6. Road Construction & Graveling (2030) - Mitigated

Location	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		5.83	27.2	0.06	0.22	_	0.22	0.20	_	0.20	_	6,562	6,562	0.27	0.05	_	6,585
Dust From Material Movemen	 t	_	_	_	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	_	-
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_
Off-Road Equipmen		5.83	27.2	0.06	0.22	_	0.22	0.20	_	0.20	_	6,562	6,562	0.27	0.05	_	6,585
Dust From Material Movemen	 t	_	_	-	_	14.2	14.2	_	6.85	6.85	_	_	_	_	_	_	-
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
Average Daily	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.96	4.47	0.01	0.04	_	0.04	0.03	_	0.03	_	1,079	1,079	0.04	0.01	_	1,082
Dust From Material Movemen	<u> </u>	_	_	_	_	2.33	2.33	_	1.13	1.13	_	_	_	_	_	_	_
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.17	0.82	< 0.005	0.01	_	0.01	0.01	_	0.01	_	179	179	0.01	< 0.005	_	179
Dust From Material Movemen	 t	_	_	_	_	0.42	0.42	_	0.21	0.21	_	_	_	_	_	_	_
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Worker	0.05	0.03	0.74	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	162	162	< 0.005	0.01	0.38	164
Vendor	0.01	0.28	0.08	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	240	240	< 0.005	0.03	0.45	251
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.53	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	142	142	< 0.005	0.01	0.01	144
Vendor	0.01	0.30	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	240	240	< 0.005	0.03	0.01	251
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	24.1	24.1	< 0.005	< 0.005	0.03	24.4
Vendor	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	39.5	39.5	< 0.005	0.01	0.03	41.2
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	3.99	3.99	< 0.005	< 0.005	< 0.005	4.04
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.54	6.54	< 0.005	< 0.005	0.01	6.82
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

3.7. Building Construction (2030) - Unmitigated

	ROG	NOx	co	SO2	PM10E	PM10D	PM10T	PM2.5E	or daily, I	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
							TWITOT	I WIZ.JL	T WIZ.JD	T IVIZ.OT			0021	OH	INZO	IX.	
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)								_									
Off-Road Equipmen		2.90	3.67	0.01	0.12	_	0.12	0.11	_	0.11	_	1,019	1,019	0.04	0.01	_	1,023
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		2.90	3.67	0.01	0.12	_	0.12	0.11	_	0.11	_	1,019	1,019	0.04	0.01	_	1,023
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.95	1.21	< 0.005	0.04	_	0.04	0.04	_	0.04	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.17	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	_	55.5	55.5	< 0.005	< 0.005	_	55.7
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.03	0.74	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	162	162	< 0.005	0.01	0.38	164
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

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
Daily, Winter (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.53	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	142	142	< 0.005	0.01	0.01	144
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
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Worker	0.02	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	48.2	48.2	< 0.005	< 0.005	0.05	48.9
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
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.98	7.98	< 0.005	< 0.005	0.01	8.09
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
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

3.8. Building Construction (2030) - Mitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		2.90	3.67	0.01	0.12	_	0.12	0.11	_	0.11	_	1,019	1,019	0.04	0.01	_	1,023
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		2.90	3.67	0.01	0.12	_	0.12	0.11	_	0.11	_	1,019	1,019	0.04	0.01	_	1,023
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
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.95	1.21	< 0.005	0.04	_	0.04	0.04	_	0.04	_	335	335	0.01	< 0.005	_	336
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.17	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	_	55.5	55.5	< 0.005	< 0.005	_	55.7
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	_	_		_	_	-	_	_	_	_	_	-
Worker	0.05	0.03	0.74	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	162	162	< 0.005	0.01	0.38	164
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
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.53	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	142	142	< 0.005	0.01	0.01	144
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
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
Average Daily	_	-	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	0.02	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	48.2	48.2	< 0.005	< 0.005	0.05	48.9
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
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

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.98	7.98	< 0.005	< 0.005	0.01	8.09
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
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

3.9. Paving & Utilities (2030) - Unmitigated

• · · · · · · · · ·	0.110.10.1	110 (110) 011		ily, tolly		didii) dii idi		ib/day ic			OKI II TOTOKI						
Location	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		4.91	6.92	0.02	0.18	_	0.18	0.17	_	0.17	_	1,933	1,933	0.08	0.02	_	1,940
Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Off-Road Equipmen		0.40	0.57	< 0.005	0.01	_	0.01	0.01	_	0.01	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.07	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	26.3	26.3	< 0.005	< 0.005	_	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	-	_	_	-	_	_	_	_	_	-	_	_	_
Worker	0.05	0.03	0.74	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	162	162	< 0.005	0.01	0.38	164
Vendor	0.01	0.28	0.08	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	240	240	< 0.005	0.03	0.45	251
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.1	12.1	< 0.005	< 0.005	0.01	12.2
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	19.8	19.8	< 0.005	< 0.005	0.02	20.6
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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.00	2.00	< 0.005	< 0.005	< 0.005	2.02
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.27	3.27	< 0.005	< 0.005	< 0.005	3.41
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

3.10. Paving & Utilities (2030) - Mitigated

Location	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		4.91	6.92	0.02	0.18	_	0.18	0.17	_	0.17	_	1,933	1,933	0.08	0.02	_	1,940

Paving	0.30	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.40	0.57	< 0.005	0.01	_	0.01	0.01	_	0.01	_	159	159	0.01	< 0.005	_	159
Paving	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.07	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	26.3	26.3	< 0.005	< 0.005	_	26.4
Paving	< 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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.03	0.74	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	162	162	< 0.005	0.01	0.38	164
Vendor	0.01	0.28	0.08	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	_	240	240	< 0.005	0.03	0.45	251
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
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.1	12.1	< 0.005	< 0.005	0.01	12.2
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	19.8	19.8	< 0.005	< 0.005	0.02	20.6

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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.00	2.00	< 0.005	< 0.005	< 0.005	2.02
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.27	3.27	< 0.005	< 0.005	< 0.005	3.41
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

4. Operations Emissions Details

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	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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

		(110) 010	,	.,,,.		,		ne, ereny ne									
Species	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Vegetatio n	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																	
Iotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

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

			со	SO2		PM10D		PM2.5E					CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	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																		
Winter Max) Max) Max Avoided — — — — — — — — — — — — — — — — — —	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest	Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove -	Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual — — — — — — — — — — — — — — — — — — —	Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided — — — — — — — — — — — — — — — — — —	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove — — — — — — — — — — — — — — — — — — —	Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	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	1/1/2030	1/20/2030	5.00	14.0	_
Site Preparation	Site Preparation	1/21/2030	3/3/2030	5.00	30.0	_

Road Construction & Graveling	Grading	3/4/2030	5/26/2030	5.00	60.0	_
Building Construction	Building Construction	5/27/2030	11/10/2030	5.00	120	_
Paving & Utilities	Paving	5/27/2030	7/7/2030	5.00	30.0	_

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
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Average	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Average	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Average	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.2.2. Mitigated

Phase Name Equipment Type Fuel Type Engine Tier Number per Day Hours Per Day Horsepower Load Factor	Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Scrapers	Diesel	Tier 4 Final	3.00	8.00	423	0.48
Site Preparation	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Road Construction & Graveling	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Road Construction & Graveling	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Road Construction & Graveling	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving & Utilities	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving & Utilities	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving & Utilities	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	14.9	LDA,LDT1,LDT2
Demolition	Vendor	_	10.8	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	15.0	14.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	10.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Road Construction & Graveling	_	_	_	_
Road Construction & Graveling	Worker	15.0	14.9	LDA,LDT1,LDT2
Road Construction & Graveling	Vendor	8.00	10.8	HHDT,MHDT
Road Construction & Graveling	Hauling	0.00	20.0	HHDT
Road Construction & Graveling	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	15.0	14.9	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving & Utilities	_	_	_	_
Paving & Utilities	Worker	15.0	14.9	LDA,LDT1,LDT2
Paving & Utilities	Vendor	8.00	10.8	HHDT,MHDT
Paving & Utilities	Hauling	0.00	20.0	HHDT
Paving & Utilities	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area	Residential Exterior Area	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq.ft)
Hase Name	residential interior / trea	Tresidential Exterior / trea	14011 11Coldonillal littoriol / lica	14011 11031dCHilai Exterior /110d	r arking rirea boated (39 it)
	Cooted (eg ft)	Cooted (og ft)	Coated (sq ft)	Cooted (eg ft)	
	Coated (sq ft)	Coated (sq ft)	Coaled (Sq II)	Coated (sq ft)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	_	_
Site Preparation	_	_	150	0.00	_
Road Construction & Graveling	_	_	120	0.00	_
Paving & Utilities	0.00	0.00	0.00	0.00	3.42

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	3.42	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2030	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

	V		
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 Initial Acres Final 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)

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	26.1	annual days of extreme heat
Extreme Precipitation	2.25	annual days with precipitation above 20 mm

Sea Level Rise	_	meters of inundation depth
Wildfire	10.5	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	3	0	0	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	3	1	1	3

Extreme Precipitation	1	1	1	2
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
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.

5 (, 5	·
Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	40.0
AQ-PM	23.6
AQ-DPM	14.9
Drinking Water	8.53
Lead Risk Housing	57.6
Pesticides	92.1
Toxic Releases	5.96
Traffic	2.81
Effect Indicators	_

CleanUp Sites	81.9
Groundwater	84.7
Haz Waste Facilities/Generators	43.3
Impaired Water Bodies	91.9
Solid Waste	83.3
Sensitive Population	_
Asthma	44.7
Cardio-vascular	91.2
Low Birth Weights	46.5
Socioeconomic Factor Indicators	_
Education	62.4
Housing	22.1
Linguistic	64.1
Poverty	65.4
Unemployment	14.4

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	34.05620429
Employed	22.03259335
Median HI	33.85089183
Education	_
Bachelor's or higher	36.60977801
High school enrollment	11.18952906
Preschool enrollment	63.87783909
Transportation	_

Active commuting 26,67778776 Social — 2-parent households 15,50109072 Voting 78,08289491 Neighborhood — Alcohol availability 56,64057487 Park access 34,21018863 Retail density 30,54022841 Supermarket access 55,34453997 Tree canopy 66,09957654 Housing — Housing habitability 86,4220068 Housing habitability 86,4220068 Low-inc Internet severe housing cost burden 96,34287181 Low-inc renter severe housing cost burden 71,48723213 Low-increnter severe housing cost burden 77,46182471 Health Outcomes — Insured adults 36,77659438 Arthritis 0.0 Asthma ER Admissions 37,9 High Blood Pressure 0.0	Auto Access	35.49339151
Social — 2-parent households 15.50109072 Voting 78.08289491 Neighborhood — Alcohol availability 56.64057487 Park access 34.21018863 Retail density 3.054022841 Supermarket access 55.34453997 Tiree canopy 6.09957654 Housing — Homeownership 59.19414859 Housing habitability 86.46220968 Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77669438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Active commuting	
Voting 78.08289491 Neighborhood — Alcohol availability 56.64057487 Park access 34.21018863 Retail density 3.054022841 Supermarket access 55.34453997 Tree canopy 68.09957654 Housing — Homeownership 59.1941859 Housing habitability 86.46220968 Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Social	_
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Neighborhood — Alcohol availability 56.64057487 Park access 34.21018863 Retail density 3.054022841 Supermarket access 55.34453997 Tree canopy 68.09957654 Housing — Homeownership 59.19414859 Housing habitability 86.46220968 Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Voting	78.08289491
Alcohol availability 56.64057487 Park access 34.21018863 Retail density 3.054022841 Supermarket access 55.34453997 Tiree canopy 68.09957654 Housing — Homeownership 59.19414859 Housing abbitability 86.46220968 Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Neighborhood	_
Retail density 3.054022841 Supermarket access 55.34453997 Tree canopy 68.09957654 Housing — Homeownership 59.19414859 Housing habitability 86.46220968 Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Alcohol availability	56.64057487
Supermarket access 55.34453997 Tiree canopy 68.09957654 Housing — Homeownership 59.19414859 Housing habitability 86.46220968 Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Park access	34.21018863
Tree canopy 68.09957654 Housing — Homeownership 59.19414859 Housing habitability 86.46220968 Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Retail density	3.054022841
Housing — Homeownership 59.19414859 Housing habitability 86.46220968 Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Supermarket access	55.34453997
Homeownership 59.19414859 Housing habitability 86.46220968 Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Tree canopy	68.09957654
Housing habitability Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults Arthritis 0.0 Asthma ER Admissions High Blood Pressure 0.0	Housing	_
Low-inc homeowner severe housing cost burden 96.34287181 Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Homeownership	59.19414859
Low-inc renter severe housing cost burden 71.48723213 Uncrowded housing Fealth Outcomes Fealth Outcomes Finance adults Arthritis Finance adults Arthritis Finance admissions Finance adm	Housing habitability	86.46220968
Uncrowded housing 57.46182471 Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Low-inc homeowner severe housing cost burden	96.34287181
Health Outcomes — Insured adults 36.77659438 Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Low-inc renter severe housing cost burden	71.48723213
Insured adults Arthritis 0.0 Asthma ER Admissions High Blood Pressure 0.0 36.77659438 0.0 0.0	Uncrowded housing	57.46182471
Arthritis 0.0 Asthma ER Admissions 37.9 High Blood Pressure 0.0	Health Outcomes	_
Asthma ER Admissions 37.9 High Blood Pressure 0.0	Insured adults	36.77659438
High Blood Pressure 0.0	Arthritis	0.0
	Asthma ER Admissions	37.9
Cancer (excluding skin) 0.0	High Blood Pressure	0.0
	Cancer (excluding skin)	0.0
Asthma 0.0	Asthma	0.0
Coronary Heart Disease 0.0	Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease 0.0	Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes 0.0	Diagnosed Diabetes	0.0
Life Expectancy at Birth 53.5	Life Expectancy at Birth	53.5

Cognitively Disabled	43.0
Physically Disabled	23.7
Heart Attack ER Admissions	4.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	_
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	10.6
Elderly	29.3
English Speaking	70.0
Foreign-born	29.8
Outdoor Workers	9.0
Climate Change Adaptive Capacity	_
Impervious Surface Cover	83.0
Traffic Density	2.1
Traffic Access	0.0
Other Indices	_
Hardship	61.9
Other Decision Support	_

2016 Voting	73.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	35.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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

Screen	Justification
Construction: Construction Phases	Construction phasing and timing updated to match the Project Description. Building construction along with paving and utilities assumed to occur simultaneously.
Construction: Off-Road Equipment	Equipment list updated to match the Project Description. Excavator added to demolition phase.
Construction: Trips and VMT	Worker, vendor and hauling trips updated to match the Project Description.
Land Use	Lot acreage adjusted to match the Project. Half of the total size (440,00 SF) accounted for in the modeling as the buildings will be premanufactured.

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.

OPERATIONAL CALEEMOD OUTPUTS

Triple Crown- Operations Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Triple Crown- Operations
Operational Year	2031
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	1.20
Location	39.18629186944287, -122.02889407786444
County	Colusa
City	Colusa
Air District	Colusa County APCD
Air Basin	Sacramento Valley
TAZ	229
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Manufacturing	2,120	1000sqft	68.9	2,120,000	0.00	_	_	_
Parking Lot	1,900	Space	17.1	760,000	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.	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.08	24.3	35.8	0.18	1.81	4.92	6.73	1.81	1.24	3.05	2,779	46,187	48,967	286	3.74	560	57,795
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	2.90	24.5	32.4	0.18	1.81	4.92	6.73	1.81	1.24	3.05	2,779	45,647	48,427	286	3.76	552	57,253
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	2.90	24.4	32.3	0.18	1.81	4.92	6.73	1.81	1.24	3.05	2,779	45,768	48,548	286	3.75	555	57,374
Annual (Max)	_	_		_	_	_	_	_	_	_	_	_	_	_		_	_
Unmit.	0.53	4.45	5.90	0.03	0.33	0.90	1.23	0.33	0.23	0.56	460	7,577	8,038	47.4	0.62	92.0	9,499

2.5. Operations Emissions by Sector, Unmitigated

Sector	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.58	0.68	16.0	0.04	0.02	4.92	4.94	0.01	1.24	1.25	_	4,171	4,171	0.10	0.10	8.34	4,211

Area	0.20	_			_	_	_	_	_					_	_	_	
Energy	1.30	23.6	19.8	0.14	1.79	_	1.79	1.79	_	1.79	_	40,772	40,772	4.53	0.30	_	40,974
Water	_	_	_	_	_	_	_	_	_	_	1,363	1,245	2,607	140	3.34	_	7,102
Waste	_	_	_	_	_	_	_	_	_	_	1,417	0.00	1,417	142	0.00	_	4,957
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	552	552
Total	3.08	24.3	35.8	0.18	1.81	4.92	6.73	1.81	1.24	3.05	2,779	46,187	48,967	286	3.74	560	57,795
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.40	0.86	12.6	0.04	0.02	4.92	4.94	0.01	1.24	1.25	<u> </u>	3,631	3,631	0.13	0.11	0.22	3,668
Area	0.20	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_
Energy	1.30	23.6	19.8	0.14	1.79	_	1.79	1.79	_	1.79	_	40,772	40,772	4.53	0.30	_	40,974
Water	_	_	_	_	_	_	_	_	_	_	1,363	1,245	2,607	140	3.34	_	7,102
Waste	_	_	_	_	_	_	_	_	_	_	1,417	0.00	1,417	142	0.00	_	4,957
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	552	552
Total	2.90	24.5	32.4	0.18	1.81	4.92	6.73	1.81	1.24	3.05	2,779	45,647	48,427	286	3.76	552	57,253
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.41	0.76	12.5	0.04	0.02	4.92	4.93	0.01	1.24	1.25	_	3,752	3,752	0.11	0.10	3.60	3,789
Area	0.20	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	1.30	23.6	19.8	0.14	1.79	_	1.79	1.79	_	1.79	_	40,772	40,772	4.53	0.30	_	40,974
Water	_	_	_	_	_	_	_	_	_	_	1,363	1,245	2,607	140	3.34	_	7,102
Waste	_	_	_	_	_	_	_	_	_		1,417	0.00	1,417	142	0.00	_	4,957
Refrig.	_	_	_		_	_		_	_		_	_	_	_		552	552
Total	2.90	24.4	32.3	0.18	1.81	4.92	6.73	1.81	1.24	3.05	2,779	45,768	48,548	286	3.75	555	57,374
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.26	0.14	2.28	0.01	< 0.005	0.90	0.90	< 0.005	0.23	0.23	_	621	621	0.02	0.02	0.60	627
Area	0.04	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.24	4.31	3.62	0.03	0.33	_	0.33	0.33	_	0.33	_	6,750	6,750	0.75	0.05	_	6,784

Water	_	_	_	_	_	_	_	_	_	_	226	206	432	23.2	0.55	_	1,176
Waste	_	_	_	_	_	_	_	_	_	_	235	0.00	235	23.4	0.00	_	821
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	91.4	91.4
Total	0.53	4.45	5.90	0.03	0.33	0.90	1.23	0.33	0.23	0.56	460	7,577	8,038	47.4	0.62	92.0	9,499

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-	-	_
Manufact uring	1.58	0.68	16.0	0.04	0.02	4.92	4.94	0.01	1.24	1.25	_	4,171	4,171	0.10	0.10	8.34	4,211
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
Total	1.58	0.68	16.0	0.04	0.02	4.92	4.94	0.01	1.24	1.25	_	4,171	4,171	0.10	0.10	8.34	4,211
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Manufact uring	1.40	0.86	12.6	0.04	0.02	4.92	4.94	0.01	1.24	1.25	_	3,631	3,631	0.13	0.11	0.22	3,668
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
Total	1.40	0.86	12.6	0.04	0.02	4.92	4.94	0.01	1.24	1.25	_	3,631	3,631	0.13	0.11	0.22	3,668
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	0.26	0.14	2.28	0.01	< 0.005	0.90	0.90	< 0.005	0.23	0.23	_	621	621	0.02	0.02	0.60	627

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
Total	0.26	0.14	2.28	0.01	< 0.005	0.90	0.90	< 0.005	0.23	0.23	_	621	621	0.02	0.02	0.60	627

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Manufact uring	_	_	_	_	_	_	_	_	_	_	_	12,239	12,239	1.98	0.24	_	12,360
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	365	365	0.06	0.01	_	368
Total	_	_	_	_	_	_	_	_	_	_	_	12,603	12,603	2.04	0.25	_	12,728
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	_	_	_	-	_	_	_	_	_	_	_	12,239	12,239	1.98	0.24	_	12,360
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	365	365	0.06	0.01	_	368
Total	_	_	_	_	_	_	_	_	_	_	_	12,603	12,603	2.04	0.25	_	12,728
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	_	_	_	_	_	_	_	_	_	_	_	2,026	2,026	0.33	0.04	_	2,046
Parking Lot	_	_	_	-	_	_	_	_	_	_	_	60.4	60.4	0.01	< 0.005	_	61.0
Total	_	_	_	_	_	_	_	_	_	_	_	2,087	2,087	0.34	0.04	_	2,107

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	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	1.30	23.6	19.8	0.14	1.79	_	1.79	1.79	_	1.79	_	28,168	28,168	2.49	0.05	_	28,246
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
Total	1.30	23.6	19.8	0.14	1.79	_	1.79	1.79	_	1.79	_	28,168	28,168	2.49	0.05	_	28,246
Daily, Winter (Max)	_	_	-	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Manufact uring	1.30	23.6	19.8	0.14	1.79	_	1.79	1.79	_	1.79	_	28,168	28,168	2.49	0.05	_	28,246
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
Total	1.30	23.6	19.8	0.14	1.79	_	1.79	1.79	_	1.79	_	28,168	28,168	2.49	0.05	_	28,246
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	0.24	4.31	3.62	0.03	0.33	_	0.33	0.33	_	0.33	_	4,664	4,664	0.41	0.01	_	4,676
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
Total	0.24	4.31	3.62	0.03	0.33	_	0.33	0.33	_	0.33	_	4,664	4,664	0.41	0.01	_	4,676

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	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	0.06	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	0.14	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	0.20	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	0.06	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	0.14	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	0.20	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	0.01	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	0.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	0.04	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	_	_	_	_	_	_	_	_	_	_	1,363	1,245	2,607	140	3.34	_	7,102
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	1,363	1,245	2,607	140	3.34	_	7,102
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	_	_	_	_	_	_	_	_	_	_	1,363	1,245	2,607	140	3.34	_	7,102
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	1,363	1,245	2,607	140	3.34	_	7,102
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	_	_	_	_	_	_	_	_	_	_	226	206	432	23.2	0.55	_	1,176
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	226	206	432	23.2	0.55	_	1,176

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	_	_	_	_	_	_	_	_	_	_	1,417	0.00	1,417	142	0.00	_	4,957

Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	1,417	0.00	1,417	142	0.00	_	4,957
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	_	_	_	_	_	_	_	_	_	_	1,417	0.00	1,417	142	0.00	_	4,957
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	1,417	0.00	1,417	142	0.00	_	4,957
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	_	_	_	_	_	_	_	_	_	_	235	0.00	235	23.4	0.00	_	821
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	235	0.00	235	23.4	0.00	_	821

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring		_	_	_		_	_	_	_	_	_	_	_	_	_	552	552
Total	_	_	_	_	_	_		_	_	_	_	_	_	_	_	552	552
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Manufact	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	552	552
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	552	552
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Manufact uring	_	_	_	_	_		_	_	_	_	_	_	_	_	_	91.4	91.4
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	91.4	91.4

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipme nt Type						PM10D			PM2.5D			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	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	_	_	_	_	_			_	_		_	_		_		_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	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	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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
Manufacturing	846	846	846	308,746	7,095	7,095	7,095	2,589,682
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 Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	44,693

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		· ·	

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)
Manufacturing	21,899,510	204	0.0330	0.0040	87,892,248
Parking Lot	652,511	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)
Manufacturing	711,072,000	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	2,629	_
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
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	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

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
Equipinont Typo	I doi typo	Trumbor por Day	riodio por Bay	riodro por rodi	1 loloopowol	Loud I dotor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/vr)
Equipition Typo	1 doi 1ypo	Turiboi	Donor Rading (MINDIA/III)	Dully Float Input (MMDta/day)	/ tillidai i loat ilipat (iviivibta/yi)

5.17. User Defined

Equipment Type Fuel 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 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)

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	pperature and Extreme Heat 26.1 annual days of extreme heat	
Extreme Precipitation	2.25	annual days with precipitation above 20 mm
Sea Level Rise	_	meters of inundation depth
Wildfire	10.5	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, 1.0 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	3	0	0	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A

Flooding	0	0	0	N/A
Drought	0	0	0	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	3	1	1	3
Extreme Precipitation	1	1	1	2
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
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.

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a highe Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	40.0
AQ-PM	23.6
AQ-DPM	14.9
Drinking Water	8.53
Lead Risk Housing	57.6
Pesticides	92.1
Toxic Releases	5.96
Traffic	2.81
Effect Indicators	_
CleanUp Sites	81.9
Groundwater	84.7
Haz Waste Facilities/Generators	43.3
Impaired Water Bodies	91.9
Solid Waste	83.3
Sensitive Population	_
Asthma	44.7
Cardio-vascular	91.2
Low Birth Weights	46.5
Socioeconomic Factor Indicators	_
Education	62.4
Housing	22.1
Linguistic	64.1
Poverty	65.4
Unemployment	14.4

7.2. Healthy Places Index Scores

he 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	34.05620429			
Employed	22.03259335			
Median HI	33.85089183			
Education	_			
Bachelor's or higher	36.60977801			
High school enrollment	11.18952906			
Preschool enrollment	63.87783909			
Transportation	_			
Auto Access	35.49339151			
Active commuting	26.67778776			
Social	_			
2-parent households	15.50109072			
Voting	78.08289491			
Neighborhood	_			
Alcohol availability	56.64057487			
Park access	34.21018863			
Retail density	3.054022841			
Supermarket access	55.34453997			
Tree canopy	68.09957654			
Housing	_			
Homeownership	59.19414859			
Housing habitability	86.46220968			
Low-inc homeowner severe housing cost burden	96.34287181			
Low-inc renter severe housing cost burden	71.48723213			

57.46182471
_
36.77659438
0.0
37.9
0.0
0.0
0.0
0.0
0.0
0.0
53.5
43.0
23.7
4.9
0.0
0.0
0.0
19.6
0.0
0.0
_
0.0
0.0
0.0
0.0
0.0

Children	10.6
Elderly	29.3
English Speaking	70.0
Foreign-born	29.8
Outdoor Workers	9.0
Climate Change Adaptive Capacity	_
Impervious Surface Cover	83.0
Traffic Density	2.1
Traffic Access	0.0
Other Indices	_
Hardship	61.9
Other Decision Support	_
2016 Voting	73.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	35.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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.

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.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Lot acreage of manufacturing updated to match the acreage provided in the Project Description.
Operations: Vehicle Data	832 trips per the Project Traffic Report.
Operations: Fleet Mix	Project Traffic Report states 832 trips with 792 (95.2%) from employees and 40 (4.8%) from deliveries.
Operations: Consumer Products	No consumer products associated with general or city park.
Operations: Architectural Coatings	Buildings are prefabricated and do not require repainting.
Operations: Water and Waste Water	Water use provided in the Project Description. Assumed 4 months of high water use.