



Towne Centre View

AIR QUALITY IMPACT ANALYSIS

CITY OF SAN DIEGO

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LIST OF ABBREVIATED TERMS

%	Percent
°F	Degrees Fahrenheit
(1)	Reference
µg/m ³	Microgram per Cubic Meter
AB	Assembly Bill
AB 2595	California Clean Air Act
AMSL	Above Mean Sea Level
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management District
AQP	Air Quality Plan
AQMP	Air Quality Management Plan
BAAQMD	Bay Area Air Quality Management District
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CO	Carbon Monoxide
COHb	carboxyhemoglobin
City	City of San Diego
CY	Cubic Yards
DPM	Diesel Particulate Matter
EIR	Environmental Impact Reports
EMFAC	EMissions FAcTior Model
EPA	Environmental Protection Agency
GFA	Gross Floor Area
GHG	Greenhouse Gas
H ₂ S	Hydrogen Sulfide
I-215	Interstate 215
lbs.	Pounds
lbs./day	Pounds Per Day
LST	Localized Significance Threshold
MWELo	Model Water Efficient Landscape Ordinance

MCAS	Marine Corp Air Station
N ₂	Nitrogen
N ₂ O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
O ₂	Oxygen
O ₃	Ozone
Pb	Lead
PM ₁₀	Particulate Matter 10 microns in diameter or less
PM _{2.5}	Particulate Matter 2.5 microns in diameter or less
ppm	Parts Per Million
Project	Meniffee Crossroads
RECLAIM	Regional Clean Air Incentives Market
ROG	Reactive Organic Gases
Rule 51	Fugitive Dust
Rule 67.0.1	Architectural Coating
SDAB	San Diego Air Basin
SANDAG	San Diego Association of Governments
SDAPCD	South Coast Air Quality Management District
sf	Square Feet
SIPs	State Implementation Plans
SO ₂	Sulfur Dioxide
SO ₄	Sulfates
SO _x	Sulfur Oxides
SR	State Route
TAC	Toxic Air Contaminant
Title 24	California Building Code
C ₂ H ₃ Cl	Vinyl Chloride
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
vph	Vehicles Per Hour

EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Towne Centre View Air Quality Impact Analysis* (AQIA) are summarized below based on the significance criteria in Section 3 of this report consistent with the California Environmental Quality Act (CEQA) Guidelines and the City of San Diego CEQA Significance Determination Thresholds (1) (2). Table ES-1 shows the findings of less than significant for each potential air quality impact under CEQA. As shown, no mitigation measures are required.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Air Quality Management Plan	3.4	<i>Less Than Significant</i>	<i>n/a</i>
Regional Construction Emissions	3.5	<i>Less Than Significant</i>	<i>n/a</i>
Regional Operational Emissions	3.6	<i>Less Than Significant</i>	<i>n/a</i>
Sensitive Receptors	3.7	<i>Less Than Significant</i>	<i>n/a</i>
CO “Hot Spot” Analysis	3.8	<i>Less Than Significant</i>	<i>n/a</i>
Odors	3.9	<i>Less Than Significant</i>	<i>n/a</i>
Cumulative Impacts	3.10	<i>Less Than Significant</i>	<i>n/a</i>

ES.2 STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES

There are numerous requirements that development projects must comply with by law, and that were put in place by federal, State, and local regulatory agencies for the improvement of air quality. The most pertinent regulatory requirements that apply to the proposed Project and which are required by San Diego Air Pollution Control District (SDAPCD) Rules that are currently applicable during construction activity for this Project include but are not limited to Rule 55 (Fugitive Dust) (3) and Rule 67.0.1 (Architectural Coatings) (4). Project compliance with these and other mandatory regulatory requirements were assumed in the analysis presented here.

SDAPCD RULE 51

This rule is intended to reduce nuisance associated with air pollution. Rule 51 applies to any activity capable of generating air contaminants except “odors emanating from agricultural operations in the growing of crops or raising of fowls or animals”.

SDAPCD RULE 55

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 55 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities.

SDAPCD RULE 67.0.1

This rule serves to limit the VOC content of architectural coatings used on projects in the SDAPCD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects in the SDAPCD must comply with the current VOC standards set in this rule.

ES.3 CONSTRUCTION-SOURCE EMISSIONS MITIGATION MEASURES

The Project would not result in an exceedance of any regional or localized construction-source emissions thresholds. As such, the Project would not result in any significant impacts and no Mitigation Measure (MM) is required.

ES.4 OPERATIONAL-SOURCE EMISSIONS MITIGATION MEASURES

The Project would not result in an exceedance of any regional operational-source emissions thresholds. As such, the Project would not result in any significant impacts and no MMs are required.

1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Towne Centre View Project (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the proposed Project and, if warranted, recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SDAPCD. As concluded by this report, impacts would be less than significant and mitigation measures are not required.

1.1 SITE LOCATION

The proposed Towne Centre View site is located at the end Towne Centre Drive, as shown on Exhibit 1-A. The Project site is located north of the Eastgate Technology Park area and is designated Scientific Research land use in the University Community Plan (Subarea 11). Interstate (I) 805 is located approximately 1,500 feet east and I-5 is located approximately 2,900 feet west of the Project site. The eastern portion of the Project site is currently developed with 192,365 square feet (sf) of research and development and a 7,370-sf covered courtyard. Based on a review of historical aerial photographs, the existing land uses have been on-site since 2002 with one structure constructed in 2007. The western portion of the Project site is entitled for 190,000 sf of research and development (R&D) uses (pursuant to Coastal Development Permit 117798 and Site Development Permit 2758) and is currently being used as a staging area for the Mid-Coast Trolley construction. The nearest airport is the Marine Air Corps Station (MCAS) Miramar, which is located roughly 3 miles southeast of the Project site.

1.2 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary site plan. The Project involves redevelopment of the Project site with a five (5)-buildings campus. The proposed land uses include research, laboratory, technology, and office land uses. Buildings A through E would have a gross floor area (GFA) of 999,386 sf, with additional area consisting of balcony and roof deck space. A podium parking structure would be provided generally in the southern portion of the Project site (primarily subterranean under the proposed Buildings A through D), and a parking garage would be provided in the eastern portion of the Project site.

At the time this energy study was prepared, the future tenants of the proposed Project are unknown. This analysis is intended to describe energy usage associated with the expected typical operational activities at the Project site. The Project is anticipated to generate a net total of 6,461 trip-ends per day with 1,034 AM peak hour trips and 905 PM peak hour trips (5).

EXHIBIT 1-A: LOCATION MAP

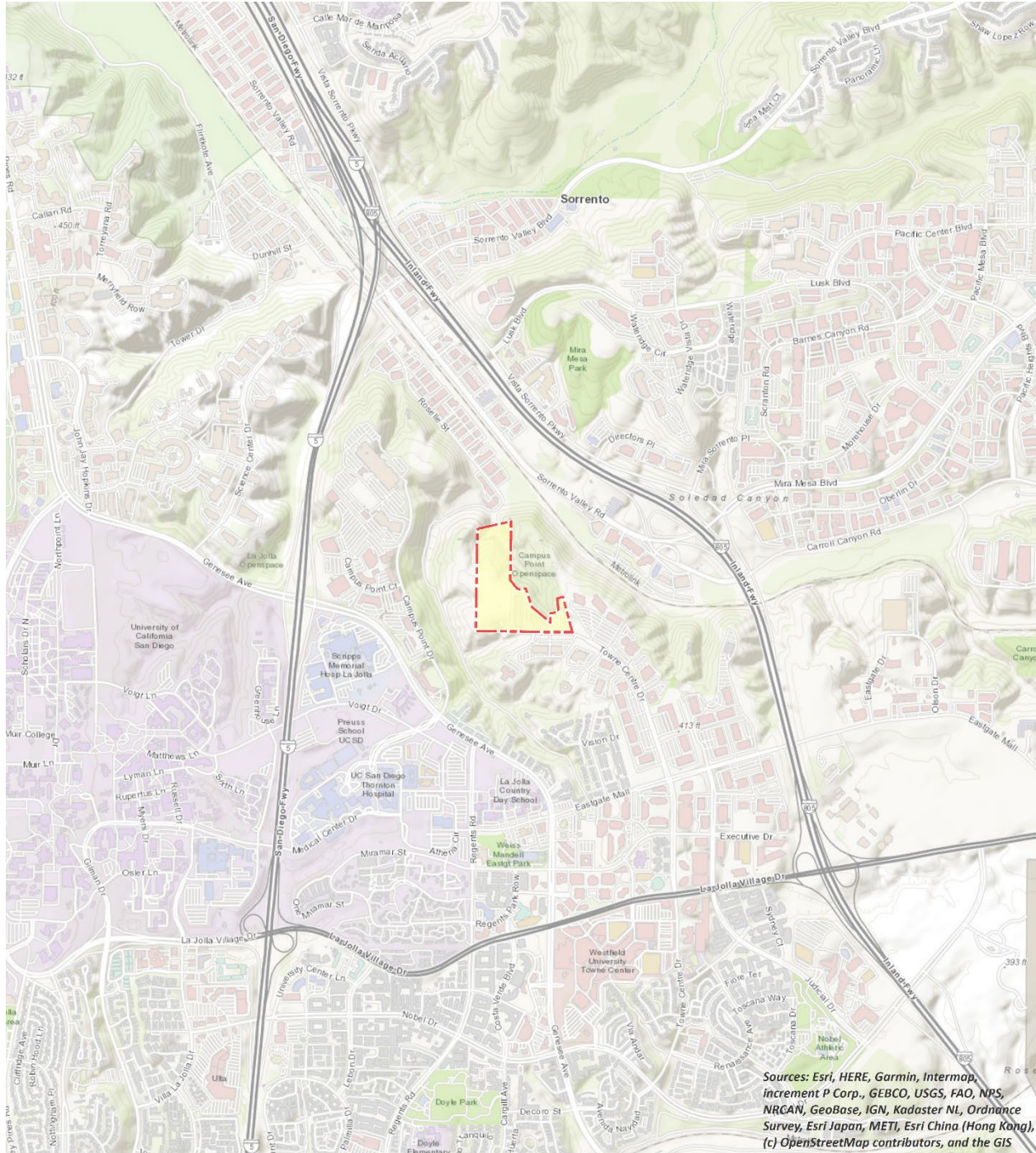
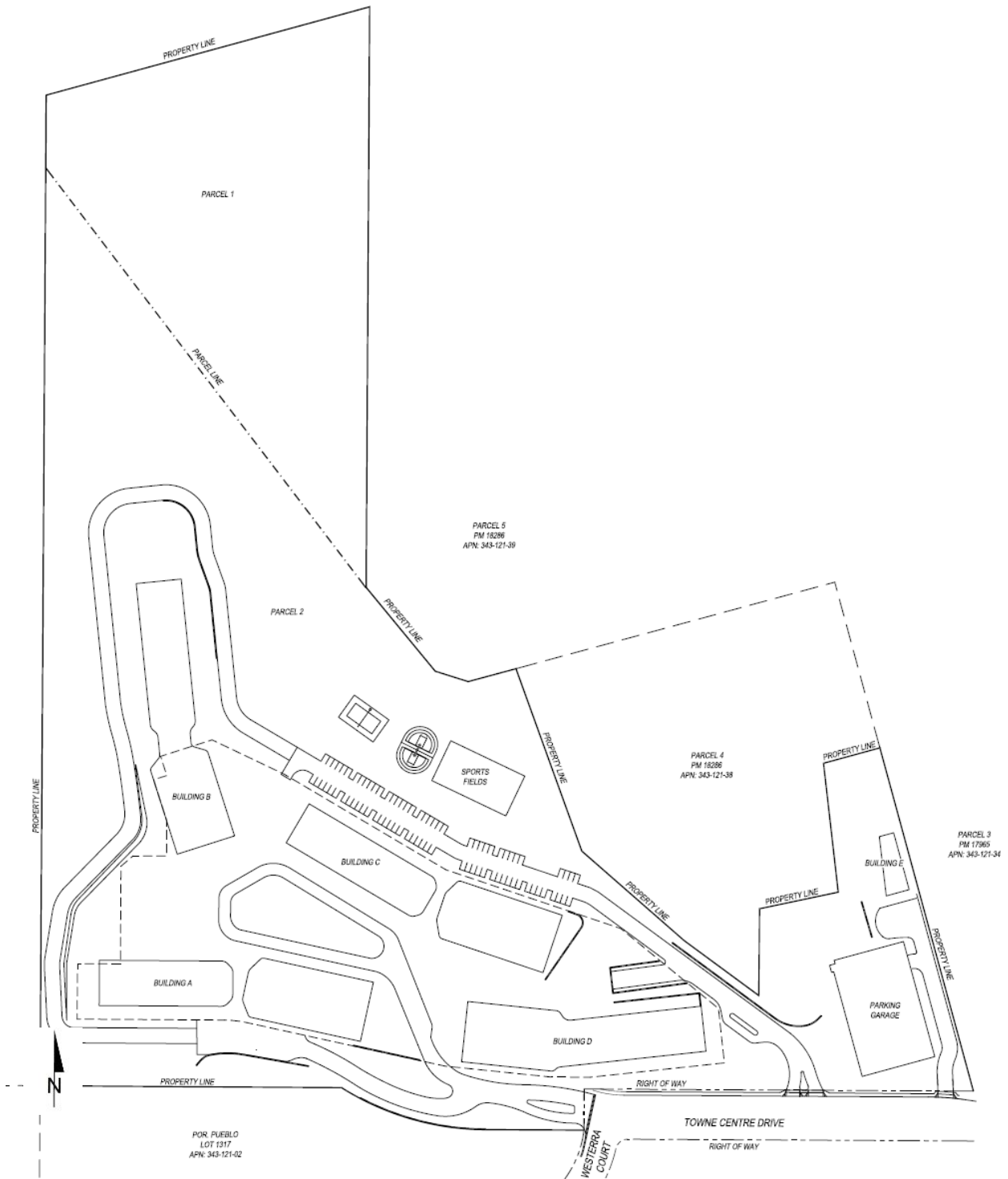


EXHIBIT 1-B: SITE PLAN



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2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the City and region.

2.1 SAN DIEGO AIR BASIN

The Project site is located approximately 2 miles east of the Pacific Ocean in San Diego County. San Diego County is within the San Diego Air Basin (SDAB), one of the 15 air basins that geographically divide the state of California (See Section 2.3.2.1). The eastern portion of the SDAB is surrounded by mountains to the north, east, and south. These mountains tend to restrict airflow and concentrate pollutants in the valleys and low-lying areas.

2.2 REGIONAL CLIMATE

The City, like the rest of San Diego County, has a Mediterranean climate characterized by warm, dry summers and mild winters. The mean annual temperature for the City is 63 degrees Fahrenheit (°F). The average annual precipitation is 13 inches, falling primarily from November to April. Winter low temperatures in the City average about 44°F, and summer high temperatures average about 80°F. The average relative humidity is 69% and is based on the yearly average humidity at Lindbergh Field (Western Regional Climate Center 2016).

The dominant meteorological feature affecting the region is the Pacific High-Pressure Zone, which produces the prevailing westerly to northwesterly winds. These winds tend to blow pollutants away from the coast toward the inland areas. Consequently, air quality near the coast is generally better than that which occurs at the base of the coastal mountain range.

Fluctuations in the strength and pattern of winds from the Pacific High-Pressure Zone interacting with the daily local cycle produce periodic temperature inversions that influence the dispersal or containment of air pollutants in the SDAB. Beneath the inversion layer pollutants become “trapped” as their ability to disperse diminishes. The mixing depth is the area under the inversion layer. Generally, the morning inversion layer is lower than the afternoon inversion layer. The greater differences between the morning and afternoon mixing depths correspond to increased dispersion of pollutants in the atmosphere. Throughout the year, the height of the temperature inversion in the afternoon varies between approximately 1,500 and 2,500 feet above mean sea level (AMSL). In the winter, the morning inversion layer is about 800 feet AMSL. In the summer, the morning inversion layer is about 1,100 feet AMSL. Therefore, air quality generally tends to be better in the winter than in the summer.

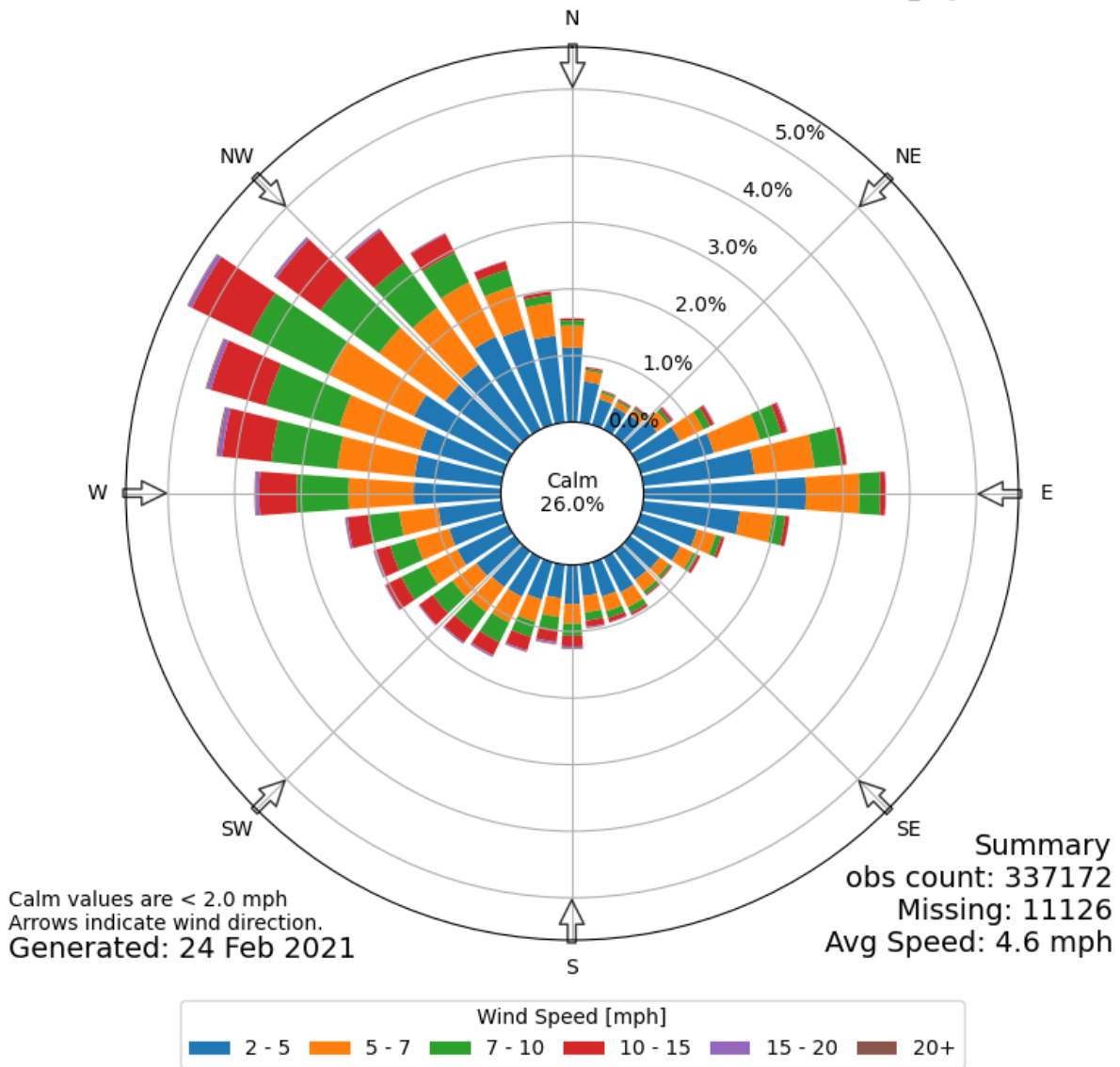
The prevailing westerly wind pattern is sometimes interrupted by regional “Santa Ana” conditions. A Santa Ana occurs when a strong high pressure develops over the Nevada-Utah area and overcomes the prevailing westerly coastal winds, sending strong, steady, hot, dry northeasterly winds over the mountains and out to sea. Strong Santa Ana winds tend to blow pollutants out over the ocean, producing clear days. However, at the onset or during breakdown of these conditions, or if the Santa Ana is weak, local air quality may be adversely affected. In these cases, emissions from the South Coast Air Basin to the north are blown out over the ocean, and low pressure over Baja California, Mexico, draws this pollutant-laden air mass southward. As

the high pressure weakens, prevailing northwesterly winds reassert themselves and send this cloud of contamination ashore in the SDAB. When this event does occur, the combination of transported and locally produced contaminants produce the worst air quality measurements recorded in the basin. Exhibit 2-A presents a summary a diagram showing the relative frequency of wind directions as reported by the nearest meteorological station at MCAS Miramar since December 31, 1969 (6).

EXHIBIT 2-A: WIND ROSE FOR METEOROLOGICAL STATION MIRAMAR NAS



[NKX] MIRAMAR NAS
 Windrose Plot
 Time Bounds: 31 Dec 1969 11:00 PM - 24 Feb 2021 12:55 AM America/Los_Angeles



2.3 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified in Table 2-1 (7):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
Carbon Monoxide (CO)	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O ₃), motor vehicles operating at slow speeds are the primary source of CO in the SDAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen (O ₂) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O ₂ transport and competing with O ₂ to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O ₂ supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O ₂ deficiency) as seen at high altitudes.
Sulfur Dioxide (SO ₂)	SO ₂ is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO ₂ oxidizes in the atmosphere, it forms SO ₄ .	Coal or oil burning power plants and industries, refineries, diesel engines	A few minutes of exposure to low levels of SO ₂ can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
	<p>Collectively, these pollutants are referred to as sulfur oxides (SO_x).</p>		<p>breathing difficulties, are observed after acute exposure to SO₂. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO₂.</p> <p>Animal studies suggest that despite SO₂ being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract.</p> <p>Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO₂ levels. In these studies, efforts to separate the effects of SO₂ from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.</p>
<p>Nitrogen Dioxide (NO_x)</p>	<p>NO_x consist of nitric oxide (NO), nitrogen dioxide (NO₂) and nitrous oxide (N₂O) and are formed when nitrogen (N₂) combines with O₂. Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO_x is typically created during combustion processes and are</p>	<p>Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.</p>	<p>Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO₂ at levels found in homes with gas stoves, which are higher than ambient levels found in</p>

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
	<p>major contributors to smog formation and acid deposition. NO₂ is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO₂ is the most abundant in the atmosphere. As ambient concentrations of NO₂ are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO₂ than those indicated by regional monitoring station.</p>		<p>Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO₂ in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups.</p> <p>In animals, exposure to levels of NO₂ considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O₃ exposure increases when animals are exposed to a combination of O₃ and NO₂.</p>
Ozone (O ₃)	<p>O₃ is a highly reactive and unstable gas that is formed when VOCs and NO_x, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O₃ concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.</p>	<p>Formed when reactive organic gases (ROG) and NO_x react in the presence of sunlight. ROG sources include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.</p>	<p>Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O₃ effects. Short-term exposure (lasting for a few hours) to O₃ at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung</p>

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
			<p>tissue, and some immunological changes. Elevated O₃ levels are associated with increased school absences. In recent years, a correlation between elevated ambient O₃ levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and live-in communities with high O₃ levels.</p> <p>O₃ exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes O₃ may be more toxic than exposure to O₃ alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.</p>
<p>Particulate Matter (PM)</p>	<p>PM₁₀: A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter</p>	<p>Sources of PM₁₀ include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO_x, SO_x, organics). Incomplete combustion of any fuel.</p> <p>PM_{2.5} comes from</p>	<p>A consistent correlation between elevated ambient fine particulate matter (PM₁₀ and PM_{2.5}) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various</p>

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
	<p>the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM₁₀ is considered a criteria air pollutant.</p> <p>PM_{2.5}: A similar air pollutant to PM₁₀ consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO₄ formed from SO₂ release from power plants and industrial facilities and nitrates that are formed from NO_x release from power plants, automobiles, and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. PM_{2.5} is a criteria air pollutant.</p>	<p>fuel combustion in motor vehicles, equipment, and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO_x, SO_x, organics).</p>	<p>areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer.</p> <p>Daily fluctuations in PM_{2.5} concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter.</p> <p>The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM₁₀ and PM_{2.5}.</p>
<p>Volatile Organic Compounds (VOC)</p>	<p>VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form O₃ to the same extent when exposed to photochemical</p>	<p>Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products. Fuels are made up of organic</p>	<p>Breathing VOCs can irritate the eyes, nose, and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.</p>

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
	<p>processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O₃, which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.</p>	<p>chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored.</p>	
<p>Reactive Organic Compounds (ROG)</p>	<p>Similar to VOC, ROG are also precursors in forming O₃ and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO_x react in the presence of sunlight. ROG are a criteria pollutant since they are a precursor to O₃, which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.</p>	<p>Sources similar to VOCs.</p>	<p>Health effects similar to VOCs.</p>
<p>Lead (Pb)</p>	<p>Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the</p>	<p>Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.</p>	<p>Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure.</p>

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
	<p>Project does not include operational activities such as metal processing or Pb acid battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of Pb emissions.</p>		<p>Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.</p>
<p>Odor</p>	<p>Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (8).</p>	<p>Odors can come from many sources including animals, human activities, industry, natures, and vehicles.</p>	<p>Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.</p>

2.4 EXISTING AIR QUALITY

Existing air quality is measured at established SDAPCD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the

levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (9), these standards are updated periodically as changes are adopted at the state or federal level.

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time this AQIA was prepared, the most recent state and federal standards were reported by CARB on May 4, 2016, and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O₃, CO (except 8-hour Lake Tahoe), SO₂ (1 and 24 hour), NO₂, PM₁₀, and PM_{2.5} are equal to or do not exceed the values reported in Table 2-2. All other pollutants are considered not to be in attainment if they exceed the values reported in Table 2-2. It should be noted that the three-year period presented in Table 2-4 is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the SDAB meets the standards set by the U.S. Environmental Protection Agency (EPA) or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. To improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by CARB. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (10).

TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards						
Pollutant	Averaging Time	California Standards ¹		National Standards ²		
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m ³)		0.070 ppm (137 µg/m ³)		
Respirable Particulate Matter (PM ₁₀) ⁹	24 Hour	50 µg/m ³	Gravimetric or Beta Attenuation	150 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m ³		—		
Fine Particulate Matter (PM _{2.5}) ⁹	24 Hour	—	—	35 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12.0 µg/m ³	15 µg/m ³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m ³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m ³)		9 ppm (10 mg/m ³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)		—	—	
Nitrogen Dioxide (NO ₂) ¹⁰	1 Hour	0.18 ppm (339 µg/m ³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m ³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)		0.053 ppm (100 µg/m ³)	Same as Primary Standard	
Sulfur Dioxide (SO ₂) ¹¹	1 Hour	0.25 ppm (655 µg/m ³)	Ultraviolet Fluorescence	75 ppb (196 µg/m ³)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m ³)	
	24 Hour	0.04 ppm (105 µg/m ³)		0.14 ppm (for certain areas) ¹¹	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) ¹¹	—	
Lead ^{12,13}	30 Day Average	1.5 µg/m ³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m ³ (for certain areas) ¹²	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m ³		
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m ³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence			
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m ³)	Gas Chromatography			

See footnotes on next page ...

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TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above $150 \mu\text{g}/\text{m}^3$ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from $15 \mu\text{g}/\text{m}^3$ to $12.0 \mu\text{g}/\text{m}^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at $35 \mu\text{g}/\text{m}^3$, as was the annual secondary standard of $15 \mu\text{g}/\text{m}^3$. The existing 24-hour PM10 standards (primary and secondary) of $150 \mu\text{g}/\text{m}^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard ($1.5 \mu\text{g}/\text{m}^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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2.5 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O₃, particulate matter (PM₁₀ and PM_{2.5}), NO₂, and SO₂ which are known as criteria pollutants. The SDAPCD monitors levels of various criteria pollutants at 12 permanent monitoring stations throughout the air district (11). On February 21, 2019, CARB posted the 2018 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SDAB (12).

TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SDAB

Criteria Pollutant	State Designation	Federal Designation
O ₃ – 8-hour standard	Nonattainment	Nonattainment
O ₃ – 1-hour standard	Nonattainment	Attainment
PM ₁₀	Nonattainment	Unclassifiable/Attainment
PM _{2.5}	Nonattainment	Attainment
CO	Attainment	Attainment/Maintenance
NO ₂	Attainment	Attainment
SO ₂	Attainment	Attainment
Pb ^A	Attainment	Attainment

^A“–” = The national 1-hour O₃ standard was revoked effective June 15, 2005.

^AThe Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SDAB.

2.6 LOCAL AIR QUALITY

Air quality at a particular location is a function of the kinds, amounts, and dispersal rates of pollutants being emitted into the air locally and throughout the basin. The major factors affecting pollutant dispersion are wind speed and direction, the vertical dispersion of pollutants (which is affected by inversions), and the local topography.

Air quality is evaluated based on the number of days in which air pollution levels exceed state standards set by the State or federal standards set by the EPA. The SDAPCD maintains 12 air quality monitoring stations located throughout the greater San Diego metropolitan region. Air pollutant concentrations and meteorological information are continuously recorded at these stations. Measurements are then used to forecast daily air pollution levels.

CARB has aggregated and published monitoring data through 2019. Between 2017 and 2019 the nearest active monitoring station was the San Diego-Kearny Villa Road monitoring station, located at 6125A Kearny Villa Road in the City of San Diego, approximately 6.1 miles southeast of the Project site.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project sites. Data for O₃, NO₂, PM₁₀, and PM_{2.5} for 2017 through 2019 was obtained from the CARB’s Air Quality Data Statistics (13). Additionally,

data for CO, Pb, and SO₂ have been omitted as attainment is regularly met in the SDAB and few monitoring stations measure CO, Pb, or SO₂ concentrations.

TABLE 2-4: AIR QUALITY MONITORING SUMMARY 2017-2019

Pollutant	Standard	Year		
		2017	2018	2019
O ₃				
Maximum Federal 1-Hour Concentration (ppm)		0.097	0.102	0.083
Maximum Federal 8-Hour Concentration (ppm)		0.083	0.077	0.075
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	2	1	0
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	6	5	1
NO ₂				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.054	0.045	0.046
Annual Federal Standard Design Value		0.009	0.008	0.008
PM ₁₀				
Maximum Federal 24-Hour Concentration (µg/m ³)	> 150 µg/m ³	46	38	--
Annual Federal Arithmetic Mean (µg/m ³)		17.6	18.4	--
Number of Days Exceeding Federal 24-Hour Standard	> 150 µg/m ³	0	0	--
Number of Days Exceeding State 24-Hour Standard	> 50 µg/m ³	0	0	--
PM _{2.5}				
Maximum Federal 24-Hour Concentration (µg/m ³)	> 35 µg/m ³	27.5	32.2	16.2
Annual Federal Arithmetic Mean (µg/m ³)	> 12 µg/m ³	8.0	8.3	--
Number of Days Exceeding Federal 24-Hour Standard	> 35 µg/m ³	0	0	0

--= Data not available; ppm= Parts Per Million

Source: SDAPCD Historical Air Quality Data by Year.

2.7 REGULATORY BACKGROUND

2.7.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O₃, CO, NO_x, SO₂, PM₁₀, and Pb (14). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of the CARB.

The Federal Clean Air Act (FCAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (15). The FCAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the FCAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the FCAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (16). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O₃, NO₂, SO₂, PM₁₀, CO, PM_{2.5}, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O₃ and to adopt a NAAQS for PM_{2.5}. Table 2-2 provides the NAAQS within the SDAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_x. NO_x is a collective term that includes all forms of NO_x which are emitted as byproducts of the combustion process.

2.7.2 CALIFORNIA REGULATIONS

CARB

The CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (Assembly Bill [AB] 2595) (CCAA), responding to the FCAA, and for regulating emissions from consumer products and motor vehicles. The CCAA mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources to attain the state ambient air quality standards by the earliest practical date. The CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO₄, visibility, hydrogen sulfide (H₂S), and vinyl chloride (C₂H₃Cl). However, at this time, H₂S and C₂H₃Cl are not measured at any monitoring stations in the SDAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (17) (14).

Local air quality management districts, such as the SDAPCD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Plans (AQP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g., motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;

- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NO_x, CO and PM₁₀. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS

California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Energy Code), was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2011, and is administered by the California Building Standards Commission. The Energy Code and CALGreen are updated on a regular basis, with the most recent approved update that became effective January 1, 2020. The 2019 Title 24 standards will result in less energy use than previous standards, thereby reducing air pollutant emissions associated with energy consumption in the SDAB and across the State of California.

2.7.3 AIR QUALITY MANAGEMENT PLANNING

The SDAPCD is the agency that regulates air quality in the SDAB. The SDAPCD prepared the Regional Air Quality Strategy (RAQS) to address state requirements, pursuant to the CCAA of 1988 (H&SC Section 39000 et seq.). The CCAA requires areas that are designated nonattainment of CAAQS for ozone, CO, SO₂, or NO₂ to prepare and implement state plans to attain the standards by the earliest practicable date (H&SC Section 40911(a)). With the exception of state ozone standards, each of these standards has been attained in the SDAB (18).

Included in the RAQS are the Transportation Control Measures (TCMs) prepared by the San Diego Association of Governments (SANDAG) that control emissions from mobile sources (18). The RAQS and TCM set forth the steps needed to accomplish attainment of CAAQS for ozone. The most recent update of the RAQS and corresponding TCMs were adopted in 2016.

The SDAPCD has also established a set of rules and regulations initially adopted on January 1, 1969, and periodically reviewed and updated. These rules and regulations are available for review on the agency's website.

3 PROJECT AIR QUALITY IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it will violate any air quality standards, contribute to an existing or projected air quality violation, or whether it will result in a cumulatively considerable net increase of a criteria pollutant for which the SDAB is non-attainment under an applicable NAAQS and CAAQS regulations. Additionally, the Project has been evaluated to determine consistency with the RAQS, potential exposure of sensitive receptors to substantial pollutant concentrations, and the impacts of odors. The significance of these potential impacts is described in the following section.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the City of San Diego CEQA Significance Determination Thresholds. Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- a) Conflict with or obstruct implementation of the applicable air quality plan;
- b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation;
- c) Result in cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including release emissions which exceed quantitative thresholds for ozone precursors);
- d) Expose sensitive receptors to substantial pollutant concentrations including air toxics such as diesel particulates. "...a sensitive receptor is a person in the population who is particularly susceptible to health effects due to exposure to an air contaminant than is the population at large. Sensitive receptors (and the facilities that house them) in proximity to localized CO sources, toxic air contaminants or odors are of particular concern. Examples include:
 - a. Long-Term Health Care Facilities
 - b. Rehabilitation Centers
 - c. Convalescent Centers
 - d. Retirement Homes
 - e. Residences – such as medical patients in homes
 - f. Schools
 - g. Playground
 - h. Child Care Centers
 - i. Athletic Facilities"

- e) Create objectionable odors affecting a substantial number of people; or
- f) Release substantial quantities of air contaminants beyond the boundaries of the premises upon which the stationary source emitting the contaminants is located.

The SDAPCD does not provide quantitative limits for determining the significance of construction or mobile source-related impacts. However, the City of San Diego CEQA Significance Determination Thresholds use the SDAPCD Air Quality Impact Analysis (AQIA) screening levels as CEQA significance thresholds for air quality. The SDAPCD AQIA screening levels (SDAPCD Rules 20.1, 20.2, and 20.3) are intended for new or modified stationary sources. Although these screening levels do not generally apply to mobile sources, for comparative purposes, these levels are used by the City of San Diego to evaluate air pollutant emissions that would be discharged to the SDAB if the Project were approved. The AQIA screening levels are shown in Table 3-1.

3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ (CALEEMOD) EMPLOYED TO ANALYZE AIR QUALITY

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

On June 2021, the SDAPCD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod version 2020.40.0. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_x, SO_x, CO, PM₁₀, and PM_{2.5}) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved

TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Hourly Limits	Daily Limit	Annual Limits
CO	100 lbs/hr	550 lbs/day	100 tons/yr
NO _x	25 lbs/hr	250 lbs/day	40 tons/yr
PM ₁₀	--	100 lbs/day	15 tons/yr
SO _x	25 lbs/hr	250 lbs/day	40 tons/yr
Pb	--	3.2 lbs/day	0.6 tons/yr
PM _{2.5}	--	67 lbs/day ¹	10 tons/yr
ROG	---	137 lbs/day	15 tons/yr

lbs./hr. = Pounds Per Hour; lbs./day = Pounds Per Day; tons/year

¹ City does not identify a PM_{2.5} limit, thus the daily limit is based on SDAPCD Rule 20.2, AQIA Trigger Levels.

Source: City Significance Determination Thresholds, July 2016 and SDAPCD Rules 20.2, Table 20.2-1.

from mitigation measures (19). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for the construction and operational activity associated with the Project are provided in Appendix 3.1 and the output for the existing land uses is provided in Appendix 3.2.

3.3.1 EMISSION FACTORS MODEL

On August 19, 2019, the EPA approved the 2017 version of the EMISSIONS FACTOR model (EMFAC) web database for use in SIP and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (20). This AQIA utilizes summer, winter, and annual EMFAC2017 emission factors to derive vehicle emissions associated with Project operational activities, which vary by season.

Because the EMFAC2017 emission rates are associated with vehicle fuel types while CalEEMod vehicle emission factors are aggregated to include all fuel types for each individual vehicle class, the EMFAC2017 emission rates for different fuel types of a vehicle class are averaged by activity or by population and activity to derive CalEEMod emission factors. The equations applied to obtain CalEEMod vehicle emission factors for each emission type are detailed in CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (21). EMFAC2017 emission rates utilized in this analysis can be found in Appendix 3.3 of this report.¹

3.3.2 LAND USES MODELED IN CALEEMOD

The Project is site parcels subject to proposed development encompass approximately 26.5 acres. The Project would develop 999,386 sf of scientific research and development in five (5) buildings. This would result in a net 799,386 sf of development as the Project site currently houses 192,365 sf of research and development and a 7,370-sf covered courtyard. Only the 192,365 sf of research and development is considered for trip generation. In addition, the project site has parking, based on the City parking requirement, it is estimated 420 parking spaces are required for the existing uses. For modeling purposes, the parking was modeled as an enclosed parking structure with an elevator. CalEEMod does not provide an extensive selection of land use subtype categories; land uses that most closely fit the Project will be utilized. For purposes of this analysis, the following land uses were modeled as the Project: (22)

- 999,386 sf research and development land uses
- Surface Parking Lots with 124 spaces
- Enclosed parking structures with 2,376 parking spaces

3.4 AIR QUALITY MANAGEMENT PLANNING

The SDAPCD RAQS, outlines SDAPCD's plans and control measures designed to attain the CAAQS. The RAQS relies on land use designations and population projections² included in general plans and community plans for different areas within the County and its incorporated cities, as well as mobile source (vehicular) information from the SANDAG, to determine what strategies are necessary for the reduction of air pollutants to attain CAAQS.

¹ On November 20, 2019, CARB released the EMFAC Off-Model Adjustment Factors to account for the impact of the Safer Affordable Fuel-Efficient (SAFE) Vehicle Rule Part One. The emissions presented in Table 3-5 have been adjusted to reflect the adjustment factors. The adjustment factors can be found at:

https://ww3.arb.ca.gov/msei/emfac_off_model_adjustment_factors_final_draft.pdf?utm_medium=email&utm_source=govdelivery

² Population growth is typically associated with the construction of residential units or large employment centers.

A project could be inconsistent with the RAQS/SIP if it results in population and/or employment growth that exceed growth estimates for the area. In the event that a project proposes development that is less dense than anticipated within the General Plan, the project would likewise be inconsistent with the RAQS. If a project proposes development that is greater than that anticipated in the City General Plan and SANDAG's growth projections upon which the RAQS is based, the project could be in conflict with the RAQS and SIP and may have a potentially significant impact on air quality. This situation would warrant further analysis to determine if the project and the surrounding projects exceed the growth projections used in the RAQS for the specific subregional area.

In 2004 SANDAG released the Regional Comprehensive Plan ("RCP") which altered the previous suburban planning paradigm in San Diego County and began moving the region toward a Smart Growth development pattern that attempted to place jobs and housing close to one another in areas connected by transit systems. A key implementation action of the RCP was the development of a Smart Growth Concept Map (SGCM) illustrating the location of existing, planned, and potential smart growth areas. First adopted in 2006 and updated in 2016, the SGCM designated the University City area as an Urban Center and notes that the minimum land use intensity target for the area is 50+ employees per acre. SANDAG is continuing these strategies in San Diego Forward: The Regional Plan (Draft 2021), which builds on the 2004 RCP and SGCM to further integrate transportation with employment and housing land uses. San Diego Forward: The Regional Plan (Draft 2021) includes the region's Sustainable Communities Strategy which is required by SB375 to include a pattern for forecasted growth and development that when combined with the transportation network, the SCS will achieve the regional GHG emission-reduction targets, accommodate the Regional Housing Needs Assessment (RHNA) Determination, and utilize the most recent planning assumptions. According to San Diego Forward: The Regional Plan (Draft 2021) at page 19, "the SCS uses areas in the region called Mobility Hubs to concentrate future development. Mobility Hubs are communities with a high concentration of people, destinations, and travel choices...". In the SCS land use pattern, forecasted growth for housing and jobs are within these areas of the region. Additionally, this SCS land use pattern identifies areas within the region that are sufficient to house the 6th Cycle RHNA Plan allocations." Figure 2-4 of San Diego Forward: The Regional Plan (Draft 2021) designates North University City as a Regional Mobility Hub and Major Employment Center. Page 32 of the San Diego Forward plan notes that "Transit and other mobility options within Mobility Hubs will support surrounding communities where future housing and jobs are envisioned. As these places grow, more people will be able to get to work, school, shopping, and other destinations without having to travel a long distance. Focusing growth in these areas will also help preserve the region's natural habitat areas and its natural resources. This growth pattern will be an important part of making the region more resilient to the impacts of climate change, including wildfire and extreme heat. As shown in Figure 2.5, the region's major employment centers and urban core mobility hubs would take on the most housing and job growth in the region over the next 30 years." Therefore, the University City area is forecast to grow significantly in jobs and housing over the next 30-years, and the Project is well within the policies directing job growth in this area.

Land use designations and population projections. While potential conflicts with the RAQS may occur when a proposed development, such as the proposed Project, seeks to add structures or density that was not accounted for on the Project site when the RAQS was prepared, the effect on anticipated regional population and employment is also important. No significant adverse impacts to population or housing are anticipated from development of the proposed Project. As noted above, the SANDAG regional growth projections forecast significant growth in jobs and housing in the University City area. The addition of scientific research and headquarters office land uses on the Project site in the University Community Plan area, which already supports extensive residential development, would provide for additional nearby employment opportunities consistent with SANDAG projections. The Project is estimated to retain 600 jobs and accommodate an additional 2,400 jobs. For the University Community Plan (UCP) area, SANDAG forecasts an additional 26,480 jobs to be added in the area from 2012 to 2050, for an increase of 30 percent (23). Therefore, the UCP area would be able to accommodate the project's addition of jobs to the area within the existing growth projections. As there are no existing residential uses on site, and housing is prohibited by the City's Prime Industrial Lands designation and the MCAS Miramar ALUCP, the Project would not displace any existing housing. Finally, the zoning-consistent use and transit-supportive nature of the Project conform to overarching goals in the UCP of developing urban nodes in the community.

Emissions from mobile sources. As noted, the RAQS is the applicable regional air quality plan that sets forth the SDAPCD's strategies for achieving the NAAQS and CAAQS. The SDAB is designated a non-attainment area for the federal and state ozone standard. Accordingly, the RAQS was developed to identify feasible emission control measures and provide expeditious progress toward attaining the standards for ozone. The two pollutants addressed in the RAQS are VOC/ROG and NO_x, which are precursors to the formation of ozone. According to the SDAPCD, the projections used to develop the RAQS emissions budgets are based on emissions from permitted sources, emissions associated with the sale of products in the region (such as architectural coatings and fuels) and regional vehicle miles traveled (VMT) estimates developed by CARB (pers. comm., Nick Cormier June 24, 2021). While all these sources are included in the RAQS, the primary driver of ozone emissions in the region is vehicle emissions.

The VMT estimates developed by CARB are based in part on SANDAG VMT estimates, which are based in part on land use plans for jurisdictions throughout the region but are also based on community activity surveys, Employment Development Department employment projections, and other regional models (18). Therefore, projects that propose development that is consistent with the land use designation in a local General Plan is unlikely to conflict with the RAQS. However, as land uses is only part of the inventory, a project that proposed a development that would generate less VMT than SANDAG predicted would also not conflict with the RAQS.

The Project site is in a Prime Industrial Lands area designated for Scientific Research in the University Community Plan. The Scientific Research designation allows for development of "scientific research and development facility[ies] ... devoted to the discovery and development of new products (or the improvement of an existing product). Typical zoning is SR (23)." The Project is being developed as a scientific research campus and is therefore consistent with the land use designation.

Based on the SANDAG VMT assessment conducted for the Project, within the Project census block, the current VMT per employee is 32.1 miles (32.1 VMT/employee) (24). According to a SANDAG Project specific analysis the full development of the site would reduce the VMT per employee from 32.1 to 28.4 miles VMT/employee. The Project will implement Project specific design features and mitigation measures that are not accounted for in the SANDAG model. These additional measures would reduce the Project specific VMT per employee to 19.5 miles which is 85% of the mean employee VMT and therefore no significant impact from VMT will occur. Therefore, the Project would result in fewer VMT per employee than the initial SANDAG estimate would assume due to the implementation of Project design features and mitigation measures.

Therefore, because the Project is consistent with the land use designation for the property, is within the SANDAG growth projections for the area, and would generate less VMT than is currently assumed in SANDAG's future VMT estimates, the Project would not result in an increase in emissions that are not already accounted for in the RAQS and would not obstruct or conflict with implementation of the RAQS.

Furthermore, as detailed in Sections 3.5 and 3.6, the Project would not result in a significant air quality impact with regards to construction- and operational-related emissions of ozone precursors or criteria air pollutants. The Project would also comply with all existing and new rules and regulations as they are implemented by the SDAPCD, CARB, and/or USEPA related to emissions generated during construction.

Consistency with City of San Diego General Plan and UC Community Plan Policies. The Project would be also consistent with applicable environmental goals and objectives contained in the City's General Plan and UCCP. The General Plan's Economic Prosperity Element focuses on the long-term needs of the economy and the land uses to support them. The Economic Prosperity Element (P.EP-7) anticipates the growth in science and technology jobs and the land uses that support them stating that, "Long-term changes in the economy have increasingly favored San Diego as a location for research and development functions, which can be performed in an office setting or flexible industrial space. Although current industrial development standards allow for adequate intensification of all types of industrial and office uses today, over the long term the City needs to continue to strengthen policies that support higher-intensity industrial development in particular locations that accommodate these research and development uses, supportive professional services, and corporate headquarters. Higher-intensity development also uses the City's limited land supply more efficiently." To this end, the Economic Prosperity Element designates a series of policies that call for the densification of properties, acknowledging that "[w]hile traditional industrial park development may still be required in the future, the City will follow the trend toward increasingly vertical work places, that support base sector jobs, particularly in Subregional Employment Centers such as University. These Subregional Employment Centers are supported by transit infrastructure like the trolley and Coaster commuter rail, which allow for the expansion of employment opportunities without the added vehicle trips and subsequent air emissions from those trips."

To this end, the Economic Prosperity Element provides the following policies which anticipate and encourage the densification of base sector technology jobs in Subregional Employment Centers like University:

Policy EP-A.3: Encourage large regional employers to locate and expand in the Regional Center or Subregional Employment Areas.

Policy EP-A.7: Increase the allowable intensity of employment uses in Subregional Employment Areas and Urban Village Centers where transportation and transit infrastructure exist. The role of transit and other alternative modes of transportation on development project review are further specified in the Mobility Element, Policies ME-C.8 through ME-C.10.

Policy EP-A.8: Concentrate more intense office development in Subregional Employment Areas and in Urban Villages with transit access.

Policy EP-A.9: Efficiently utilize employment lands through increased intensity in “urban villages” and Subregional Employment Areas.

Policy EP-A.10: Locate compatible employment uses on infill industrial sites and establish incentives to support job growth in existing urban areas.

Consistency with Complete Communities: Housing Solutions and Mobility Choices. The Project would implement the City’s General Plan mobility and conservation policies through a combination of vehicular, bicycle, and pedestrian circulation improvements that would enhance movement within the Project and encourage alternative methods of travel, furthering City policies for sustainable methods of transportation to reduce energy use, emissions, and traffic pursuant to the City’s Complete Communities: Housing Solutions and Mobility Choices program (Mobility Choices) program. Under the Mobility Choices program, the Project site is located in Mobility Zone 2 (however, the project has been conservatively analyzed and mitigated as being in Mobility Zone 3). The purpose of the Mobility Choices program is “to implement SB 743 by ensuring that new development mitigates transportation impacts based on vehicle miles traveled (VMT) to the extent feasible, while incentivizing development within the City’s urban areas (Mobility Zones 1, 2, and 3).” Under the City’s Mobility Choices program, Mobility Zones 1, 2, and 3 were identified as relatively VMT efficient areas. The Mobility Choices PEIR findings recognized that incentivizing development in these areas “could result in densities beyond what was assumed in the current SIP and RAQS” and that “as community plans were updated, newly designated land uses would be forwarded to the San Diego Association of Governments (SANDAG) for inclusion in future updates to the air quality plans for the San Diego Air Basin (SDAB).” The University City Community Plan is currently undergoing a comprehensive update to plan for 2050 growth and update the 1987 to meet new General Plan policies. As the Project is consistent with the City’s General Plan policies directing the intensification of employment uses in the subregional employment center of University City, and is consistent with the SANDAG land use and growth projections for Mobility Hubs and Major Employment Centers in San Diego Forward: the Regional Plan, the new job growth in University City from the Project will be accommodated in the air quality plans for the SANDAG Regional Plan and University City Community Plan Update.

RAQS CONSISTENCY CONCLUSION

Population and housing related impacts associated with the Project would not be significant. Furthermore, the Project would not result in a significant air quality impact with regards to construction- and operational-related emissions of ozone precursors or criteria air pollutants. The Project would also comply with existing and new rules and regulations as they are implemented by the SDAPCD, CARB, and/or USEPA related to emissions generated during construction. In addition, the use of the Project site as proposed and easy access to mass transit would reduce VMT for Project employees and visitors, thereby reducing pollutant emissions associated with vehicle trips, and is consistent with other regional and local policies and programs designed to reduce VMT. For the University Community Plan area, SANDAG forecasts an additional 26,480 jobs to be added in the area from 2012 to 2050, which would accommodate growth from the project. Therefore, it is unlikely that the additional structures and employment from the Project would interfere with the SDAPCD's goals for improving air quality in the SDAB. Impacts associated with conformance to regional air quality plans, including the San Diego County RAQS, would be less than significant.

3.5 CONSTRUCTION EMISSIONS

3.5.1 CONSTRUCTION ACTIVITY

Construction activities associated with the Project will result in emissions of VOCs, NO_x, SO_x, CO, PM₁₀, and PM_{2.5}. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation/Grading
- Excavation
- Podium/Building Construction
- Paving
- Architectural Coating

3.5.2 CONSTRUCTION DURATION

Construction is expected to commence in April 2022 and will last through December 2027. The proposed schedule includes many overlapping phases with demolition, excavation, site preparation, building construction, paving, and painting overlapping. Based on earthwork calculations information provided by the Project contractor, and when considering the various stages of earthwork, the Project would export approximately 297,041 cubic yards (CY) of cut soil and import 7,901 of fill material. Phase 1 would export 146,600 CY and import 1,727 CY over a 20-week period. Phase 2 would export 15,406 CY and import 6,174 CY over a 5-week period. Phases 3 and 4 would export 118,876 and 16,159 CY, over 12- and 2-week periods, respectively, with no import. Site demolition would occur during Phases 1 and 4 and is anticipated to result in a total of 15,944 CY of debris.

As shown Table 3-2 most phases overlap with other phases and thus represent a combined maximum emission throughout construction. Therefore, the construction schedule utilized in

the analysis, shown in Table 3-2, represents a “worst-case” analysis scenario. Should construction occur at a time after the respective dates, emissions from construction would be lower as emission rates decrease due to emission regulations becoming more stringent over time. Based on the CalEEMod User’s Guide, Section 4.3 “Offroad Equipment” as the analysis year increases, emission factors for same equipment decrease due to the fleet turnover of older equipment being replaced by newer less polluting equipment and the effects of continuing regulatory requirements. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1). The duration of construction activity was based on the 2022 opening year and an end year of 2027.

3.5.3 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific Project needs at the time of construction. The associated construction equipment was generally based on CalEEMod defaults, and the Project applicant has confirmed that the equipment list is reasonable for the Project’s construction. A detailed summary of construction equipment assumptions by phase is provided in Table 3-3. Please refer to specific detailed modeling inputs/outputs contained in Appendix 3.1 of this AQIA.

3.5.4 REGIONAL CONSTRUCTION EMISSIONS SUMMARY

CalEEMod calculates maximum daily emissions for summer and winter periods. The estimated maximum daily construction emissions are summarized on Table 3-4. These emissions estimates include all worker, vendor, and hauling trips, as well as on-site heavy equipment. Detailed construction model outputs are presented in Appendix 3.1. Under the modeled scenarios, emissions resulting from the Project construction will not exceed criteria pollutant thresholds established by the City for emissions of any criteria pollutant.

TABLE 3-2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Phase 1 Utilities	4/4/2022	12/19/2022	181
Phase 1 Grading	5/14/2022	10/5/2022	100
Phase 1 Building Construction	10/6/2022	12/5/2024	550
Phase 1 Paving	4/28/2023	1/16/2024	181
Demolition of Existing Building	8/31/2023	12/19/2023	76
Phase 1 Site Preparation	12/18/2023	11/4/2024	226
Phase 1 Architectural Coating	5/15/2024	11/4/2024	121
Phase 2 Grading	7/8/2024	8/16/2024	30
Phase 2 Building Construction	8/17/2024	1/12/2026	354
Phase 3 Grading	2/11/2025	5/6/2025	61
Phase 3 Building Construction	5/7/2025	7/2/2027	548
Phase 2 Architectural Coating	10/24/2025	1/12/2026	53
Phase 3 Paving	2/23/2026	12/14/2026	212
Phase 4 Grading	4/9/2026	4/22/2026	10
Phase 4 Building Construction	4/23/2026	12/30/2027	428
Phase 3 Site Preparation	9/17/2026	7/2/2027	202
Phase 4 Demolition	2/16/2027	3/22/2027	25
Building E Grading	2/16/2027	3/22/2027	25
Phase 3 Architectural Coating	3/15/2027	7/2/2027	79
Phase 4 Architectural Coating	6/26/2027	12/30/2027	129

Source: CalEEMod 2020, Appendix 3.1.

TABLE 3-3: CONSTRUCTION EQUIPMENT

Phase Name	Equipment	Amount	Hours Per Day
Phase 1 Utilities	Aerial Lifts	2	8
	Excavators	1	8
	Generator Sets	1	8
Phase 1 Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Phase 1 Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Phase 1 Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Demolition of Existing Building	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	3	8
Phase 1 Site Preparation	Rubber Tired Dozers	4	8
	Tractors/Loaders/Backhoes	3	8
Phase 1 Architectural Coating	Air Compressors	1	8
Phase 2 Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Phase 2 Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Phase 3 Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8

TABLE 3-3: CONSTRUCTION EQUIPMENT

Phase Name	Equipment	Amount	Hours Per Day
Phase 3 Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Phase 2 Architectural Coating	Air Compressors	1	8
Phase 3 Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Phase 4 Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Phase 4 Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Phase 4 Grading	Rubber Tired Dozers	3	8
	Tractors/Loaders/Backhoes	4	8
Phase 4 Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Building E Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Phase 3 Architectural Coating	Air Compressors	1	8
Phase 4 Architectural Coating	Air Compressors	1	8

Source: CalEEMod 2020, Appendix 3.1

TABLE 3-4: OVERALL CONSTRUCTION EMISSIONS SUMMARY

Year	Emissions (lbs/day)				
	VOC	NO _x	CO	PM ₁₀	PM _{2.5}
Summer					
2022	5.80	83.50	46.41	12.44	6.60
2023	9.38	91.59	78.74	33.70	18.11
2024	28.47	94.99	74.24	38.01	20.94
2025	46.72	74.60	56.07	14.43	6.80
2026	46.69	77.36	72.36	23.09	13.04
2027	46.11	105.60	106.99	35.18	18.57
Maximum Daily Summer Emissions	46.72	105.60	106.99	38.01	20.94
Winter					
2022	5.79	84.64	46.48	12.44	6.61
2023	9.41	91.79	78.58	33.70	18.11
2024	28.49	95.56	74.12	38.01	20.94
2025	46.77	75.97	56.06	14.43	6.81
2026	46.74	78.49	72.19	23.09	13.04
2027	46.15	105.84	106.81	35.18	18.57
Maximum Daily Winter Emissions	46.77	105.84	106.81	38.01	20.94
Maximum Daily Emissions	46.77	105.84	106.99	38.01	20.94
City of San Diego Regional Threshold	137	250	550	100	67
Threshold Exceeded?	No	No	No	No	No

Source: CalEEMod unmitigated regional construction-source emissions are presented in Appendix 3.1.

3.6 OPERATIONAL EMISSIONS

The existing land uses are currently generators of air pollutants from various operational activities and the proposed Project would similarly result in emissions of VOCs, NO_x, SO_x, CO, PM₁₀, and PM_{2.5}. Operational emissions come from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions

3.6.1 AREA SOURCE EMISSIONS

Architectural Coatings

The existing structures as well as the proposed Project are sources of emissions resulting from the evaporation of solvents contained in paints and other surface coatings as part of maintenance. The emissions associated with architectural coatings used during operation of the existing and Project were calculated using CalEEMod and emission factors were adjusted to 100 g/l to account for SDAPCD Rule 67.0.1, which limits the VOC content of architectural coatings.

Consumer Products

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form O₃ and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on CalEEMod standard settings for both the existing and future land uses.

Landscape Maintenance Equipment

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on CalEEMod standard settings for both the existing and future land uses.

3.6.2 ENERGY SOURCE EMISSIONS

Electricity and natural gas are used by almost every project. For air quality evaluations, the emissions are limited to on-site natural gas sources as they are directly attributable to the Project. However, electrical generating facilities are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SDAB. Therefore, criteria pollutant emissions from offsite generation of electricity are excluded from the evaluation of significance in air quality assessments. The emissions associated natural gas consumption were calculated based on CalEEMod emission factors that were reduced by 30% to account for Title 24 2020 for both the future land uses. Existing land uses were modeled using historical natural gas consumption factors.

3.6.3 MOBILE SOURCE EMISSIONS

Project-related air emissions derive predominantly from mobile sources. In this regard, approximately 98% (by weight) of all Project air emissions would be generated by mobile sources (vehicles). Neither the Project Applicant nor the County has any regulatory control over these tail pipe emissions. Rather, vehicle tail pipe source emissions are regulated by CARB and EPA. As summarized previously herein, as the result of CARB and EPA actions, basin-wide vehicular-source emissions have been reduced dramatically over the past years and are expected to further decline as clean vehicle and fuel technologies improve.

The Project related air emissions derive primarily from the weekday vehicle trips generated by the Project. Per information provided by Urban Systems Associates, Inc., the Project is anticipated to generate a total of 7,995 trip-ends per day (5). For purposes of evaluating the net increase in mobile source emissions, the same trip generation was used for the existing land uses as they are also research and development. Thus, the existing land uses are estimated to generate 1,534 daily trip ends. Therefore, the net increase in trip generation is estimated at approximately 6,461 trip ends. CalEEMod's standard settings for trips lengths and purpose are used in this analysis.

3.6.5 OPERATIONAL EMISSIONS SUMMARY

Project Emissions

As previously stated, CalEEMod utilizes summer and winter EMFAC2017 emission factors to derive vehicle emissions associated with Project operational activities, which vary by season. As such, operational activities for summer and winter scenarios emissions are presented in Table 3-5. Detailed operational model outputs for the Project are presented in Appendix 3.1 and the detailed model outputs for the existing land uses are presented in Appendix 3.2.

TABLE 3-5: SUMMARY OF MAXIMUM DAILY OPERATIONAL EMISSIONS

Source	Emissions (lbs/day)				
	VOC	NO _x	CO	PM ₁₀	PM _{2.5}
Summer					
Area Sources	28.36	0.00	0.38	0.00	0.00
Energy Sources	0.34	3.09	2.60	0.24	0.24
Mobile Sources	17.58	15.69	153.36	42.40	11.44
Stationary Sources	16.54	64.13	103.92	7.43	7.43
Existing Sources	-9.25	-6.07	-39.03	-8.31	-2.35
Maximum Daily Summer Emissions	53.57	76.84	221.23	41.76	16.76
Winter					
Area Sources	28.36	0.00	0.38	0.00	0.00
Energy Sources	0.34	3.09	2.60	0.24	0.24
Mobile Sources	17.01	17.00	158.73	42.40	11.45
Stationary Sources	16.54	64.13	103.92	7.43	7.43
Existing Sources	-9.15	-6.44	-40.11	-8.31	-2.35
Maximum Daily Winter Emissions	53.10	77.78	225.52	41.76	16.77
Total Maximum Daily Emissions	53.57	77.78	225.52	41.76	16.77
City of San Diego Regional Threshold	137	250	550	100	67
Threshold Exceeded?	No	No	No	No	No

Source: CalEEMod 2020, Appendixes 3.1 and 3.2.

As indicated, Project net operation-source emissions would not exceed the City's regional thresholds of significance for any criteria pollutants. Therefore, a less than significant impact is expected, and no mitigation measures are required.

3.7 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long-term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, childcare centers, and athletic facilities can also be considered as sensitive receptors. The nearest residential receptors are located 1,195 feet south of the site, along Leeds Street, all other residential receptors would be located at greater distances and thus exposed to lower Project

related air emissions. The nearest non-residential sensitive receptors the Scripps McDonald Center and the Pruess High School, which are located across Genesee Avenue, east of the Project site at 1,631 feet and 1,518 feet, respectively.

TOXIC AIR CONTAMINANTS

CONSTRUCTION

During short-term construction activity, the Project will also result in some diesel particulate matter (DPM) which is a listed carcinogen and toxic air contaminant (TAC) in the State of California. The 2015 Office of Environmental Health Hazard Assessment (OEHHA) revised risk assessment guidelines suggest that construction projects as short as 2-6 months may warrant evaluation. Notwithstanding, based on Urban Crossroad's professional opinion and experience in preparing health risk assessments for development projects, given the distance of the Project from surrounding sensitive receptors, the dominant wind patterns blowing to the northwest away from receptors, and the annual PM_{2.5} emissions from equipment during each year of construction, any DPM generated from construction activity would result in less than significant ground level concentrations of DPM and not result in a significant health risks and no further evaluation is required.

Furthermore, many air districts throughout the state, including the SCAQMD, are currently evaluating the applicability of age sensitivity factors and have not established CEQA guidance. More specifically in their response to comments received on SCAQMD New Source Review rule, the SCAQMD explicitly states that:

"The Proposed Amended Rules are separate from the CEQA significance thresholds. The SCAQMD staff is currently evaluating how to implement the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will evaluate a variety of options on how to evaluate health risks under the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will conduct public workshops to gather input before bringing recommendations to the Governing Board. In the interim, staff will continue to use the previous guidelines for CEQA determinations."

OPERATIONAL

Laboratories

While the final users of the Project are not known, the Project is intended for scientific development and research, which may include laboratories. Laboratories may utilize chemicals that can result in emissions of VOCs or TACs. In general, any source which emits more than an 'insignificant' amount of VOC or TACs, must obtain and then comply with an air emission permits obtained from the SDAPCD. The SDAPCD review process would verify the laboratories implement best available control technologies including fume hoods and air scrubbers as necessary to reduce excess cancer risks to 10 in a million or less.

Diesel Generators

The proposed generators would be diesel fueled and potentially would result in exposure of sensitive receptors to DPM. Based on the CalEEMod output, the diesel generators would not generate a sufficient amount of pollutants to exceed the SDAPCD AQIA trigger level, which are

intended to identify stationary sources that would degrade air quality. As the emission of the project combined with the with the generators does not exceed these levels, it is unlikely the testing and emergency use of the generators would expose any sensitive receptor to excessive concentration of any pollutants. However, due to the hp rating of the anticipated generators (2300 – 2950 hp) the Project would require permits to construction and operate from the SDACPD. The SDAPCD review process would verify the generators have the best available control technologies to reduce excess cancer risks to 10 in a million or less.

CRITERIA POLLUTANTS

Results of the regional emissions analysis indicate that the Project will not exceed the City significance thresholds during construction. These thresholds are based on emissions level considered protective of the general public with an adequate margin of safety. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction. Furthermore, as discussed in Section 3.8 Project traffic would not create or result in a CO “hotspot.”

Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations or associated on-site stationary sources.

3.8 CO “HOT SPOT” ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or “hot spots.” Further, detailed modeling of Project-specific CO “hot spots” is not needed to reach this conclusion. An adverse CO concentration, known as a “hot spot”, would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur. The SDAB was designated nonattainment under the CAAQS and NAAQS for CO.

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty 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 SDAB is now designated as attainment.

To establish a more accurate record of baseline CO concentrations affecting the SDAB, a CO “hot spot” analysis was conducted in 2003 for 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, as shown on Table 3-6.

TABLE 3-6: CO MODEL RESULTS

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire Boulevard/Veteran Avenue	4.6	3.5	4.2
Sunset Boulevard/Highland Avenue	4	4.5	3.9
La Cienega Boulevard/Century Boulevard	3.7	3.1	5.8
Long Beach Boulevard/Imperial Highway	3	3.1	9.3

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations

Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Neither the City of San Diego, nor the SDAPCD has provided guidance within the SDAB for assessing localized impacts from CO. However, as part of its preparation of the South Coast Air Quality Management District (SCAQMD) *2003 Air Quality Management Plan (2003 AQMP)* and the *1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan)*, the SCAQMD determined peak CO concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection (24). As evidence of this, a 9.3 ppm 8-hour CO concentration measured at the Long Beach Boulevard and Imperial Highway intersection (highest CO generating intersection within the “hot spot” analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 8.6 ppm were due to the ambient air measurements at the time the 2003 Air Quality Management Plan (AQMP) was prepared. In contrast, the ambient 8-hour CO concentration within the Project study area is estimated at 0.7 ppm—0.9 ppm. Therefore, even if the traffic volumes for the Project were double or even triple of the traffic volumes generated at the Long Beach Boulevard and Imperial Highway intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO “hot spot” at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) 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 (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—to generate a significant CO impact (25). Traffic volumes generating the CO concentrations for the “hot spot” analysis is shown on Table 3-7. The busiest intersection evaluated was that at Wilshire Blvd and Veteran Ave., which has a daily traffic volume of approximately 100,000 vph and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (24). The *2003 AQMP* estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm)³. At buildout of the Project, the highest daily traffic volumes generated at the roadways within the vicinity of the Project are expected to generate less than the highest daily traffic volumes generated at the

³ Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm)

busiest intersection in the CO “hot spot” analysis. As such, the Project would not likely exceed the most stringent 1-hour CO standard.

The proposed Project considered herein would generate 6,461 trips and would not produce the volume of traffic required to generate a CO “hot spot” either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO “hot spots” are not an environmental impact of concern for the proposed Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

TABLE 3-7: TRAFFIC VOLUMES

Intersection Location	Total (AM/PM)
Wilshire Boulevard/Veteran Avenue	8,062/7,719
Sunset Boulevard/Highland Avenue	6,614/5,374
La Cienega Boulevard/Century Boulevard	6,634/8,674
Long Beach Boulevard/Imperial Highway	4,212/5,514

Source: 2003 AQMP

3.9 ODORS

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project’s (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance

with the City's solid waste regulations. The proposed Project would also be required to comply with SDAPCD Rule 51 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (26).

3.10 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O₃, PM₁₀, and PM_{2.5} while the NAAQS designates the Project site as nonattainment for O₃. However, neither the City of San Diego, nor the SDAPCD has provided guidance on assessing impact from air quality. However, the SCAQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (27). In this report the SCAQMD clearly states (Page D-3):

"...the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or (Environmental Impact Report) EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

While the South Coast air basin is different than the SDAB and has different attainment status for criteria pollutants, the method of developing the thresholds for pollutants of concern in both regions are similar and based on the respective attainment statuses. Therefore, the methodology used by the SCAQMD in assessing cumulative impacts is applicable to the SDAB and the City of San Diego. Thus, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the City of San Diego recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed City of San Diego thresholds for project-specific impacts would be considered cumulatively considerable.

CONSTRUCTION IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

OPERATIONAL IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project operational-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project operational-source emissions would be considered less than significant on a project-specific and cumulative basis.

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4 REFERENCES

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5 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Menifee Crossroads Project. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (619) 778-1971.

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EDUCATION

Bachelor of Science in Urban and Regional Planning
California Polytechnic State University, Pomona • June 2000

PROFESSIONAL AFFILIATIONS

ASA – Acoustical Society of America
APA – American Planning Association
AWMA – Air and Waste Management Association

PROFESSIONAL CERTIFICATIONS

HARP Model Training – Bluescape Environmental • 2004
Air Dispersion Modeling – Lakes Environmental • 2008

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APPENDIX 3.1:

PROJECT CALEEMOD EMISSIONS MODEL OUTPUTS

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Towne Centre View
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	999.39	1000sqft	24.49	999,390.00	0
Enclosed Parking Structure	2,611.00	Space	0.00	1,044,400.00	0
Parking Lot	112.00	Space	1.01	44,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	539.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Site Plan, aall parking gragaes will be below ground

Construction Phase - based on project engineer input

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Trips and VMT - Building Construcion/Architectural Coatings trips based on square footage being built in each pahse per CalEEMod User Manual Appendix A.

Grading - based on site acerage

Vehicle Trips - per TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Water And Wastewater - 20% reduction over year 2000 survey per CalGreen

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	35.00	79.00
tblConstructionPhase	NumDays	35.00	129.00
tblConstructionPhase	NumDays	35.00	121.00
tblConstructionPhase	NumDays	440.00	548.00
tblConstructionPhase	NumDays	440.00	428.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	440.00	550.00
tblConstructionPhase	NumDays	440.00	354.00
tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	30.00	76.00
tblConstructionPhase	NumDays	45.00	61.00
tblConstructionPhase	NumDays	45.00	10.00
tblConstructionPhase	NumDays	45.00	25.00
tblConstructionPhase	NumDays	45.00	100.00
tblConstructionPhase	NumDays	45.00	30.00
tblConstructionPhase	NumDays	35.00	212.00
tblConstructionPhase	NumDays	35.00	181.00
tblConstructionPhase	NumDays	20.00	202.00
tblConstructionPhase	NumDays	20.00	226.00
tblGrading	AcresOfGrading	183.00	25.50
tblGrading	AcresOfGrading	30.00	25.50
tblGrading	AcresOfGrading	75.00	25.50
tblGrading	AcresOfGrading	400.00	25.50
tblGrading	AcresOfGrading	90.00	25.50
tblGrading	AcresOfGrading	303.00	0.00
tblGrading	AcresOfGrading	452.00	0.00
tblGrading	MaterialExported	0.00	118,876.00
tblGrading	MaterialExported	0.00	16,159.00
tblGrading	MaterialExported	0.00	146,600.00
tblGrading	MaterialExported	0.00	15,406.00
tblGrading	MaterialImported	0.00	1,727.00
tblGrading	MaterialImported	0.00	6,174.00
tblLandUse	LotAcreage	22.94	24.49
tblLandUse	LotAcreage	23.50	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	342.00	44.00
tblTripsAndVMT	VendorTripNumber	342.00	31.00
tblTripsAndVMT	VendorTripNumber	342.00	42.00
tblTripsAndVMT	VendorTripNumber	342.00	46.00
tblTripsAndVMT	WorkerTripNumber	777.00	114.00
tblTripsAndVMT	WorkerTripNumber	155.00	24.00
tblTripsAndVMT	WorkerTripNumber	777.00	79.00
tblTripsAndVMT	WorkerTripNumber	155.00	23.00
tblTripsAndVMT	WorkerTripNumber	155.00	16.00
tblTripsAndVMT	WorkerTripNumber	777.00	107.00
tblTripsAndVMT	WorkerTripNumber	18.00	15.00
tblTripsAndVMT	WorkerTripNumber	155.00	21.00
tblTripsAndVMT	WorkerTripNumber	777.00	118.00
tblVehicleTrips	WD_TR	11.26	8.00
tblWater	IndoorWaterUseRate	491,394,013.90	393,115,211.10

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3933	5.1988	3.4246	0.0126	0.5493	0.1646	0.7139	0.2323	0.1536	0.3859	0.0000	1,183.2675	1,183.2675	0.1792	0.1000	1,217.5570
2023	0.4933	4.5607	5.0007	0.0105	0.4392	0.2046	0.6438	0.1354	0.1907	0.3261	0.0000	933.2962	933.2962	0.1973	0.0250	945.6632
2024	1.9721	7.2772	6.3576	0.0148	3.0192	0.3082	3.3274	1.5828	0.2862	1.8690	0.0000	1,326.0830	1,326.0830	0.2834	0.0374	1,344.3069
2025	1.5486	5.2294	5.5158	0.0161	0.6089	0.1700	0.7790	0.2135	0.1593	0.3728	0.0000	1,490.4356	1,490.4356	0.2178	0.0998	1,525.6187
2026	0.7743	5.5613	6.8572	0.0145	1.0067	0.2228	1.2295	0.4702	0.2076	0.6778	0.0000	1,297.9360	1,297.9360	0.2657	0.0367	1,315.5274
2027	2.4919	5.3615	5.8457	0.0125	1.5265	0.2165	1.7429	0.7580	0.2020	0.9600	0.0000	1,113.9137	1,113.9137	0.2318	0.0230	1,126.5480
Maximum	2.4919	7.2772	6.8572	0.0161	3.0192	0.3082	3.3274	1.5828	0.2862	1.8690	0.0000	1,490.4356	1,490.4356	0.2834	0.1000	1,525.6187

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3933	5.1988	3.4246	0.0126	0.5493	0.1646	0.7139	0.2323	0.1536	0.3859	0.0000	1,183.2669	1,183.2669	0.1792	0.1000	1,217.5563
2023	0.4933	4.5607	5.0007	0.0105	0.4392	0.2046	0.6438	0.1354	0.1907	0.3261	0.0000	933.2954	933.2954	0.1973	0.0250	945.6624
2024	1.9721	7.2771	6.3576	0.0148	3.0192	0.3082	3.3274	1.5828	0.2862	1.8690	0.0000	1,326.0818	1,326.0818	0.2834	0.0374	1,344.3058
2025	1.5486	5.2294	5.5158	0.0161	0.6089	0.1700	0.7790	0.2135	0.1593	0.3728	0.0000	1,490.4347	1,490.4347	0.2178	0.0998	1,525.6179
2026	0.7743	5.5613	6.8572	0.0145	1.0067	0.2228	1.2295	0.4702	0.2076	0.6778	0.0000	1,297.9349	1,297.9349	0.2657	0.0367	1,315.5263
2027	2.4919	5.3615	5.8457	0.0125	1.5265	0.2165	1.7429	0.7580	0.2020	0.9600	0.0000	1,113.9127	1,113.9127	0.2318	0.0230	1,126.5470
Maximum	2.4919	7.2771	6.8572	0.0161	3.0192	0.3082	3.3274	1.5828	0.2862	1.8690	0.0000	1,490.4347	1,490.4347	0.2834	0.1000	1,525.6179

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-4-2022	7-3-2022	1.7192	1.7192
2	7-4-2022	10-3-2022	2.9355	2.9355
3	10-4-2022	1-3-2023	0.9291	0.9291
4	1-4-2023	4-3-2023	0.6285	0.6285
5	4-4-2023	7-3-2023	0.9022	0.9022

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6	7-4-2023	10-3-2023	1.4212	1.4212
7	10-4-2023	1-3-2024	2.1661	2.1661
8	1-4-2024	4-3-2024	1.8214	1.8214
9	4-4-2024	7-3-2024	2.1523	2.1523
10	7-4-2024	10-3-2024	3.4907	3.4907
11	10-4-2024	1-3-2025	1.6830	1.6830
12	1-4-2025	4-3-2025	1.7434	1.7434
13	4-4-2025	7-3-2025	1.6545	1.6545
14	7-4-2025	10-3-2025	1.1313	1.1313
15	10-4-2025	1-3-2026	2.2889	2.2889
16	1-4-2026	4-3-2026	0.8897	0.8897
17	4-4-2026	7-3-2026	1.5733	1.5733
18	7-4-2026	10-3-2026	1.5850	1.5850
19	10-4-2026	1-3-2027	2.2672	2.2672
20	1-4-2027	4-3-2027	2.8600	2.8600
21	4-4-2027	7-3-2027	2.9658	2.9658
22	7-4-2027	9-30-2027	0.9546	0.9546
		Highest	3.4907	3.4907

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	3,963.5086	3,963.5086	0.2165	0.0361	3,979.6696
Mobile	2.3386	2.3480	21.7047	0.0456	5.7557	0.0318	5.7875	1.5359	0.0296	1.5656	0.0000	4,460.9174	4,460.9174	0.3111	0.1959	4,527.0776
Stationary	1.6137	6.3310	9.6718	0.0457		0.6868	0.6868		0.6868	0.6868	0.0000	7,784.1913	7,784.1913	0.2194	0.0000	7,789.6761
Waste						0.0000	0.0000		0.0000	0.0000	15.4172	0.0000	15.4172	0.9111	0.0000	38.1954
Water						0.0000	0.0000		0.0000	0.0000	124.7173	1,253.7404	1,378.4577	12.8863	0.3118	1,793.5167
Total	9.1869	9.2436	31.8847	0.0947	5.7557	0.7616	6.5173	1.5359	0.7594	2.2954	140.1345	17,462.4241	17,602.5586	14.5446	0.5437	18,128.2061

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	3,963.5086	3,963.5086	0.2165	0.0361	3,979.6696
Mobile	2.3386	2.3480	21.7047	0.0456	5.7557	0.0318	5.7875	1.5359	0.0296	1.5656	0.0000	4,460.9174	4,460.9174	0.3111	0.1959	4,527.0776
Stationary	1.6137	6.3310	9.6718	0.0457		0.6868	0.6868		0.6868	0.6868	0.0000	7,784.1913	7,784.1913	0.2194	0.0000	7,789.6761
Waste						0.0000	0.0000		0.0000	0.0000	15.4172	0.0000	15.4172	0.9111	0.0000	38.1954
Water						0.0000	0.0000		0.0000	0.0000	124.7173	1,253.7404	1,378.4577	12.8863	0.3118	1,793.5167
Total	9.1869	9.2436	31.8847	0.0947	5.7557	0.7616	6.5173	1.5359	0.7594	2.2954	140.1345	17,462.4241	17,602.5586	14.5446	0.5437	18,128.2061

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Utilities	Trenching	4/4/2022	12/19/2022	5	181	
2	Phase 1 Grading	Grading	5/14/2022	10/5/2022	5	100	

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3	Phase 1 Building Construction	Building Construction	10/6/2022	12/5/2024	5	550
4	Phase 1 Paving	Paving	4/28/2023	1/16/2024	5	181
5	Demo Existing	Demolition	8/31/2023	12/19/2023	5	76
6	Phase 1 Site Preparation	Site Preparation	12/18/2023	11/4/2024	5	226
7	Phase 1 Architectural Coating	Architectural Coating	5/15/2024	11/4/2024	5	121
8	Phase 2 Grading	Grading	7/8/2024	8/16/2024	5	30
9	Phase 2 Building Construction	Building Construction	8/17/2024	1/12/2026	5	354
10	Phase 3 Grading	Grading	2/11/2025	5/6/2025	5	61
11	Phase 3 Building Construction	Building Construction	5/7/2025	7/2/2027	5	548
12	Phase 2 Architectural Coating	Architectural Coating	10/24/2025	1/12/2026	5	53
13	Phase 3 Paving	Paving	2/23/2026	12/14/2026	5	212
14	Phase 4 Grading	Grading	4/9/2026	4/22/2026	5	10
15	Phase 4 Building Construction	Building Construction	4/23/2026	12/30/2027	5	428
16	Phase 3 Site Preparation	Site Preparation	9/17/2026	7/2/2027	5	202
17	Phase 4 Demo	Demolition	2/16/2027	3/22/2027	5	25
18	Building E Grading	Grading	2/16/2027	3/22/2027	5	25
19	Phase 3 Architectural Coating	Architectural Coating	3/15/2027	7/2/2027	5	79
20	Phase 4 Architectural Coating	Architectural Coating	6/26/2027	12/30/2027	5	129

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 25.5

Acres of Paving: 1.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,537; Non-Residential Outdoor: 63,590; Striped Parking Area: 65,352 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Utilities	Aerial Lifts	2	8.00	63	0.31
Phase 1 Utilities	Excavators	1	8.00	158	0.38

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Phase 1 Utilities	Generator Sets	1	8.00	84	0.74
Phase 1 Grading	Crawler Tractors	2	8.00	212	0.43
Phase 1 Grading	Excavators	2	8.00	158	0.38
Phase 1 Grading	Graders	1	8.00	187	0.41
Phase 1 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1 Grading	Scrapers	2	8.00	367	0.48
Phase 1 Building Construction	Cranes	1	8.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 1 Paving	Rollers	2	8.00	80	0.38
Demo Existing	Concrete/Industrial Saws	1	8.00	81	0.73
Demo Existing	Excavators	3	8.00	158	0.38
Demo Existing	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1 Site Preparation	Rubber Tired Dozers	4	8.00	247	0.40
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 2 Grading	Excavators	2	8.00	158	0.38
Phase 2 Grading	Graders	1	8.00	187	0.41
Phase 2 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2 Grading	Scrapers	2	8.00	367	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2 Building Construction	Cranes	1	8.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Grading	Excavators	2	8.00	158	0.38
Phase 3 Grading	Graders	1	8.00	187	0.41
Phase 3 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 3 Grading	Scrapers	2	8.00	367	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Building Construction	Cranes	1	8.00	231	0.29
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 3 Paving	Pavers	2	8.00	130	0.42
Phase 3 Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Paving	Rollers	2	8.00	80	0.38
Phase 4 Grading	Excavators	2	8.00	158	0.38
Phase 4 Grading	Graders	1	8.00	187	0.41
Phase 4 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 4 Grading	Scrapers	2	8.00	367	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 4 Building Construction	Cranes	1	8.00	231	0.29
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 4 Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 4 Demo	Excavators	3	8.00	158	0.38

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Phase 4 Demo	Rubber Tired Dozers	2	8.00	247	0.40
Building E Grading	Excavators	2	8.00	158	0.38
Building E Grading	Graders	1	8.00	187	0.41
Building E Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building E Grading	Scrapers	2	8.00	367	0.48
Building E Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 4 Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Utilities	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	8	20.00	0.00	18,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	9	107.00	42.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Existing	7	15.00	0.00	1,261.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	8	20.00	0.00	2,698.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	9	118.00	46.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	8	20.00	0.00	14,860.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	9	114.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	8	20.00	0.00	2,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	9	79.00	31.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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Phase 4 Demo	6	15.00	0.00	315.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building E Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1896	122.1896	0.0250	0.0000	122.8149
Total	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1896	122.1896	0.0250	0.0000	122.8149

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3.2 Phase 1 Utilities - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6800e-003	1.9500e-003	0.0229	7.0000e-005	7.4600e-003	4.0000e-005	7.5000e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.1333	6.1333	1.9000e-004	1.8000e-004	6.1909
Total	2.6800e-003	1.9500e-003	0.0229	7.0000e-005	7.4600e-003	4.0000e-005	7.5000e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.1333	6.1333	1.9000e-004	1.8000e-004	6.1909

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1894	122.1894	0.0250	0.0000	122.8148
Total	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1894	122.1894	0.0250	0.0000	122.8148

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3.2 Phase 1 Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6800e-003	1.9500e-003	0.0229	7.0000e-005	7.4600e-003	4.0000e-005	7.5000e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.1333	6.1333	1.9000e-004	1.8000e-004	6.1909
Total	2.6800e-003	1.9500e-003	0.0229	7.0000e-005	7.4600e-003	4.0000e-005	7.5000e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.1333	6.1333	1.9000e-004	1.8000e-004	6.1909

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3348	0.0000	0.3348	0.1736	0.0000	0.1736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2204	2.4467	1.5036	3.6800e-003		0.0983	0.0983		0.0904	0.0904	0.0000	323.6294	323.6294	0.1047	0.0000	326.2461
Total	0.2204	2.4467	1.5036	3.6800e-003	0.3348	0.0983	0.4331	0.1736	0.0904	0.2640	0.0000	323.6294	323.6294	0.1047	0.0000	326.2461

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3.3 Phase 1 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0423	1.6079	0.3792	5.9900e-003	0.1635	0.0150	0.1785	0.0449	0.0143	0.0592	0.0000	598.5187	598.5187	0.0288	0.0951	627.5717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9700e-003	2.1600e-003	0.0253	7.0000e-005	8.2600e-003	5.0000e-005	8.3100e-003	2.1900e-003	4.0000e-005	2.2400e-003	0.0000	6.7928	6.7928	2.1000e-004	2.0000e-004	6.8566
Total	0.0453	1.6100	0.4045	6.0600e-003	0.1718	0.0150	0.1868	0.0471	0.0143	0.0615	0.0000	605.3116	605.3116	0.0290	0.0953	634.4283

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3348	0.0000	0.3348	0.1736	0.0000	0.1736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2204	2.4467	1.5036	3.6800e-003		0.0983	0.0983		0.0904	0.0904	0.0000	323.6290	323.6290	0.1047	0.0000	326.2457
Total	0.2204	2.4467	1.5036	3.6800e-003	0.3348	0.0983	0.4331	0.1736	0.0904	0.2640	0.0000	323.6290	323.6290	0.1047	0.0000	326.2457

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3.3 Phase 1 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0423	1.6079	0.3792	5.9900e-003	0.1635	0.0150	0.1785	0.0449	0.0143	0.0592	0.0000	598.5187	598.5187	0.0288	0.0951	627.5717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9700e-003	2.1600e-003	0.0253	7.0000e-005	8.2600e-003	5.0000e-005	8.3100e-003	2.1900e-003	4.0000e-005	2.2400e-003	0.0000	6.7928	6.7928	2.1000e-004	2.0000e-004	6.8566
Total	0.0453	1.6100	0.4045	6.0600e-003	0.1718	0.0150	0.1868	0.0471	0.0143	0.0615	0.0000	605.3116	605.3116	0.0290	0.0953	634.4283

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9762	76.9762	0.0189	0.0000	77.4480
Total	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9762	76.9762	0.0189	0.0000	77.4480

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3.4 Phase 1 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8800e-003	0.0717	0.0235	2.8000e-004	8.6500e-003	7.5000e-004	9.4000e-003	2.5000e-003	7.2000e-004	3.2200e-003	0.0000	27.1518	27.1518	8.2000e-004	3.9400e-003	28.3478
Worker	9.5700e-003	6.9500e-003	0.0815	2.4000e-004	0.0266	1.5000e-004	0.0268	7.0700e-003	1.4000e-004	7.2100e-003	0.0000	21.8756	21.8756	6.9000e-004	6.3000e-004	22.0809
Total	0.0125	0.0786	0.1050	5.2000e-004	0.0353	9.0000e-004	0.0362	9.5700e-003	8.6000e-004	0.0104	0.0000	49.0274	49.0274	1.5100e-003	4.5700e-003	50.4287

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9761	76.9761	0.0189	0.0000	77.4479
Total	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9761	76.9761	0.0189	0.0000	77.4479

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3.4 Phase 1 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8800e-003	0.0717	0.0235	2.8000e-004	8.6500e-003	7.5000e-004	9.4000e-003	2.5000e-003	7.2000e-004	3.2200e-003	0.0000	27.1518	27.1518	8.2000e-004	3.9400e-003	28.3478
Worker	9.5700e-003	6.9500e-003	0.0815	2.4000e-004	0.0266	1.5000e-004	0.0268	7.0700e-003	1.4000e-004	7.2100e-003	0.0000	21.8756	21.8756	6.9000e-004	6.3000e-004	22.0809
Total	0.0125	0.0786	0.1050	5.2000e-004	0.0353	9.0000e-004	0.0362	9.5700e-003	8.6000e-004	0.0104	0.0000	49.0274	49.0274	1.5100e-003	4.5700e-003	50.4287

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9214	322.9214	0.0787	0.0000	324.8880
Total	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9214	322.9214	0.0787	0.0000	324.8880

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3.4 Phase 1 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4100e-003	0.2424	0.0855	1.1200e-003	0.0363	1.4300e-003	0.0377	0.0105	1.3700e-003	0.0118	0.0000	109.5551	109.5551	3.3100e-003	0.0159	114.3685
Worker	0.0376	0.0261	0.3179	9.6000e-004	0.1116	6.1000e-004	0.1122	0.0296	5.7000e-004	0.0302	0.0000	89.3724	89.3724	2.6200e-003	2.4600e-003	90.1717
Total	0.0441	0.2685	0.4033	2.0800e-003	0.1478	2.0400e-003	0.1499	0.0401	1.9400e-003	0.0421	0.0000	198.9275	198.9275	5.9300e-003	0.0183	204.5402

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876
Total	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876

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3.4 Phase 1 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4100e-003	0.2424	0.0855	1.1200e-003	0.0363	1.4300e-003	0.0377	0.0105	1.3700e-003	0.0118	0.0000	109.5551	109.5551	3.3100e-003	0.0159	114.3685
Worker	0.0376	0.0261	0.3179	9.6000e-004	0.1116	6.1000e-004	0.1122	0.0296	5.7000e-004	0.0302	0.0000	89.3724	89.3724	2.6200e-003	2.4600e-003	90.1717
Total	0.0441	0.2685	0.4033	2.0800e-003	0.1478	2.0400e-003	0.1499	0.0401	1.9400e-003	0.0421	0.0000	198.9275	198.9275	5.9300e-003	0.0183	204.5402

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1112	303.1112	0.0734	0.0000	304.9472
Total	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1112	303.1112	0.0734	0.0000	304.9472

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7900e-003	0.2259	0.0784	1.0300e-003	0.0340	1.3500e-003	0.0354	9.8200e-003	1.2900e-003	0.0111	0.0000	101.0225	101.0225	3.1800e-003	0.0146	105.4636
Worker	0.0332	0.0220	0.2792	8.7000e-004	0.1047	5.5000e-004	0.1052	0.0278	5.1000e-004	0.0283	0.0000	81.7707	81.7707	2.2400e-003	2.1600e-003	82.4701
Total	0.0390	0.2479	0.3575	1.9000e-003	0.1387	1.9000e-003	0.1406	0.0376	1.8000e-003	0.0394	0.0000	182.7931	182.7931	5.4200e-003	0.0168	187.9337

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1108	303.1108	0.0734	0.0000	304.9468
Total	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1108	303.1108	0.0734	0.0000	304.9468

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3.4 Phase 1 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7900e-003	0.2259	0.0784	1.0300e-003	0.0340	1.3500e-003	0.0354	9.8200e-003	1.2900e-003	0.0111	0.0000	101.0225	101.0225	3.1800e-003	0.0146	105.4636
Worker	0.0332	0.0220	0.2792	8.7000e-004	0.1047	5.5000e-004	0.1052	0.0278	5.1000e-004	0.0283	0.0000	81.7707	81.7707	2.2400e-003	2.1600e-003	82.4701
Total	0.0390	0.2479	0.3575	1.9000e-003	0.1387	1.9000e-003	0.1406	0.0376	1.8000e-003	0.0394	0.0000	182.7931	182.7931	5.4200e-003	0.0168	187.9337

3.5 Phase 1 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0909	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2364	176.2364	0.0570	0.0000	177.6614
Paving	1.2900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0922	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2364	176.2364	0.0570	0.0000	177.6614

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3.5 Phase 1 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5700e-003	2.4700e-003	0.0302	9.0000e-005	0.0106	6.0000e-005	0.0106	2.8100e-003	5.0000e-005	2.8700e-003	0.0000	8.4811	8.4811	2.5000e-004	2.3000e-004	8.5569
Total	3.5700e-003	2.4700e-003	0.0302	9.0000e-005	0.0106	6.0000e-005	0.0106	2.8100e-003	5.0000e-005	2.8700e-003	0.0000	8.4811	8.4811	2.5000e-004	2.3000e-004	8.5569

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0909	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2362	176.2362	0.0570	0.0000	177.6612
Paving	1.2900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0922	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2362	176.2362	0.0570	0.0000	177.6612

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3.5 Phase 1 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5700e-003	2.4700e-003	0.0302	9.0000e-005	0.0106	6.0000e-005	0.0106	2.8100e-003	5.0000e-005	2.8700e-003	0.0000	8.4811	8.4811	2.5000e-004	2.3000e-004	8.5569
Total	3.5700e-003	2.4700e-003	0.0302	9.0000e-005	0.0106	6.0000e-005	0.0106	2.8100e-003	5.0000e-005	2.8700e-003	0.0000	8.4811	8.4811	2.5000e-004	2.3000e-004	8.5569

3.5 Phase 1 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9300e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131
Paving	9.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.0200e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131

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3.5 Phase 1 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5638	0.5638	2.0000e-005	1.0000e-005	0.5686
Total	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5638	0.5638	2.0000e-005	1.0000e-005	0.5686

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9300e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131
Paving	9.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.0200e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131

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3.5 Phase 1 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5638	0.5638	2.0000e-005	1.0000e-005	0.5686
Total	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5638	0.5638	2.0000e-005	1.0000e-005	0.5686

3.6 Demo Existing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1436	0.0000	0.1436	0.0218	0.0000	0.0218	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1167	1.1302	0.8986	1.8700e-003		0.0521	0.0521		0.0483	0.0483	0.0000	163.9032	163.9032	0.0472	0.0000	165.0829
Total	0.1167	1.1302	0.8986	1.8700e-003	0.1436	0.0521	0.1957	0.0218	0.0483	0.0701	0.0000	163.9032	163.9032	0.0472	0.0000	165.0829

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3.6 Demo Existing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0890	0.0237	3.9000e-004	0.0112	7.3000e-004	0.0120	3.0800e-003	7.0000e-004	3.7800e-003	0.0000	39.3328	39.3328	1.9800e-003	6.2600e-003	41.2463
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	1.1100e-003	0.0135	4.0000e-005	4.7500e-003	3.0000e-005	4.7800e-003	1.2600e-003	2.0000e-005	1.2900e-003	0.0000	3.8068	3.8068	1.1000e-004	1.0000e-004	3.8409
Total	3.0500e-003	0.0901	0.0372	4.3000e-004	0.0160	7.6000e-004	0.0167	4.3400e-003	7.2000e-004	5.0700e-003	0.0000	43.1397	43.1397	2.0900e-003	6.3600e-003	45.0872

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1436	0.0000	0.1436	0.0218	0.0000	0.0218	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1167	1.1302	0.8986	1.8700e-003		0.0521	0.0521		0.0483	0.0483	0.0000	163.9031	163.9031	0.0472	0.0000	165.0827
Total	0.1167	1.1302	0.8986	1.8700e-003	0.1436	0.0521	0.1957	0.0218	0.0483	0.0701	0.0000	163.9031	163.9031	0.0472	0.0000	165.0827

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3.6 Demo Existing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0890	0.0237	3.9000e-004	0.0112	7.3000e-004	0.0120	3.0800e-003	7.0000e-004	3.7800e-003	0.0000	39.3328	39.3328	1.9800e-003	6.2600e-003	41.2463
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	1.1100e-003	0.0135	4.0000e-005	4.7500e-003	3.0000e-005	4.7800e-003	1.2600e-003	2.0000e-005	1.2900e-003	0.0000	3.8068	3.8068	1.1000e-004	1.0000e-004	3.8409
Total	3.0500e-003	0.0901	0.0372	4.3000e-004	0.0160	7.6000e-004	0.0167	4.3400e-003	7.2000e-004	5.0700e-003	0.0000	43.1397	43.1397	2.0900e-003	6.3600e-003	45.0872

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1204	0.0000	0.1204	0.0662	0.0000	0.0662	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.1656	0.0956	2.2000e-004		7.5600e-003	7.5600e-003		6.9500e-003	6.9500e-003	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631
Total	0.0160	0.1656	0.0956	2.2000e-004	0.1204	7.5600e-003	0.1280	0.0662	6.9500e-003	0.0732	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631

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3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.7000e-004	2.0600e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5783	0.5783	2.0000e-005	2.0000e-005	0.5834
Total	2.4000e-004	1.7000e-004	2.0600e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5783	0.5783	2.0000e-005	2.0000e-005	0.5834

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1204	0.0000	0.1204	0.0662	0.0000	0.0662	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.1656	0.0956	2.2000e-004		7.5600e-003	7.5600e-003		6.9500e-003	6.9500e-003	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631
Total	0.0160	0.1656	0.0956	2.2000e-004	0.1204	7.5600e-003	0.1280	0.0662	6.9500e-003	0.0732	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631

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3.7 Phase 1 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.7000e-004	2.0600e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5783	0.5783	2.0000e-005	2.0000e-005	0.5834
Total	2.4000e-004	1.7000e-004	2.0600e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5783	0.5783	2.0000e-005	2.0000e-005	0.5834

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6618	0.0000	2.6618	1.4631	0.0000	1.4631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3549	3.6305	2.1250	4.8100e-003		0.1640	0.1640		0.1509	0.1509	0.0000	422.3501	422.3501	0.1366	0.0000	425.7650
Total	0.3549	3.6305	2.1250	4.8100e-003	2.6618	0.1640	2.8258	1.4631	0.1509	1.6140	0.0000	422.3501	422.3501	0.1366	0.0000	425.7650

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3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0600e-003	3.3500e-003	0.0425	1.3000e-004	0.0160	8.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.4592	12.4592	3.4000e-004	3.3000e-004	12.5657
Total	5.0600e-003	3.3500e-003	0.0425	1.3000e-004	0.0160	8.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.4592	12.4592	3.4000e-004	3.3000e-004	12.5657

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6618	0.0000	2.6618	1.4631	0.0000	1.4631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3549	3.6305	2.1250	4.8100e-003		0.1640	0.1640		0.1509	0.1509	0.0000	422.3496	422.3496	0.1366	0.0000	425.7645
Total	0.3549	3.6305	2.1250	4.8100e-003	2.6618	0.1640	2.8258	1.4631	0.1509	1.6140	0.0000	422.3496	422.3496	0.1366	0.0000	425.7645

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3.7 Phase 1 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0600e-003	3.3500e-003	0.0425	1.3000e-004	0.0160	8.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.4592	12.4592	3.4000e-004	3.3000e-004	12.5657
Total	5.0600e-003	3.3500e-003	0.0425	1.3000e-004	0.0160	8.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.4592	12.4592	3.4000e-004	3.3000e-004	12.5657

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366
Total	1.2273	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366

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3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3100e-003	2.1900e-003	0.0278	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	8.1558	8.1558	2.2000e-004	2.2000e-004	8.2255
Total	3.3100e-003	2.1900e-003	0.0278	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	8.1558	8.1558	2.2000e-004	2.2000e-004	8.2255

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366
Total	1.2273	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366

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3.8 Phase 1 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3100e-003	2.1900e-003	0.0278	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	8.1558	8.1558	2.2000e-004	2.2000e-004	8.2255
Total	3.3100e-003	2.1900e-003	0.0278	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	8.1558	8.1558	2.2000e-004	2.2000e-004	8.2255

3.9 Phase 2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1054	0.0000	0.1054	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0483	0.4857	0.4158	9.3000e-004		0.0200	0.0200		0.0184	0.0184	0.0000	81.7793	81.7793	0.0265	0.0000	82.4405
Total	0.0483	0.4857	0.4158	9.3000e-004	0.1054	0.0200	0.1254	0.0513	0.0184	0.0698	0.0000	81.7793	81.7793	0.0265	0.0000	82.4405

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3.9 Phase 2 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.9400e-003	0.1815	0.0494	7.9000e-004	0.0231	1.5100e-003	0.0246	6.3500e-003	1.4400e-003	7.7900e-003	0.0000	79.5350	79.5350	4.2000e-003	0.0127	83.4121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	5.1000e-004	6.4200e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8792	1.8792	5.0000e-005	5.0000e-005	1.8953
Total	3.7000e-003	0.1820	0.0558	8.1000e-004	0.0255	1.5200e-003	0.0270	6.9900e-003	1.4500e-003	8.4400e-003	0.0000	81.4142	81.4142	4.2500e-003	0.0127	85.3073

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1054	0.0000	0.1054	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0483	0.4857	0.4158	9.3000e-004		0.0200	0.0200		0.0184	0.0184	0.0000	81.7792	81.7792	0.0265	0.0000	82.4404
Total	0.0483	0.4857	0.4158	9.3000e-004	0.1054	0.0200	0.1254	0.0513	0.0184	0.0698	0.0000	81.7792	81.7792	0.0265	0.0000	82.4404

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Phase 2 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.9400e-003	0.1815	0.0494	7.9000e-004	0.0231	1.5100e-003	0.0246	6.3500e-003	1.4400e-003	7.7900e-003	0.0000	79.5350	79.5350	4.2000e-003	0.0127	83.4121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	5.1000e-004	6.4200e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8792	1.8792	5.0000e-005	5.0000e-005	1.8953
Total	3.7000e-003	0.1820	0.0558	8.1000e-004	0.0255	1.5200e-003	0.0270	6.9900e-003	1.4500e-003	8.4400e-003	0.0000	81.4142	81.4142	4.2500e-003	0.0127	85.3073

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4991	120.4991	0.0292	0.0000	121.2290
Total	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4991	120.4991	0.0292	0.0000	121.2290

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5200e-003	0.0984	0.0341	4.5000e-004	0.0148	5.9000e-004	0.0154	4.2800e-003	5.6000e-004	4.8400e-003	0.0000	43.9854	43.9854	1.3800e-003	6.3700e-003	45.9191
Worker	0.0146	9.6400e-003	0.1224	3.8000e-004	0.0459	2.4000e-004	0.0461	0.0122	2.2000e-004	0.0124	0.0000	35.8491	35.8491	9.8000e-004	9.5000e-004	36.1557
Total	0.0171	0.1080	0.1565	8.3000e-004	0.0607	8.3000e-004	0.0615	0.0165	7.8000e-004	0.0173	0.0000	79.8344	79.8344	2.3600e-003	7.3200e-003	82.0747

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4990	120.4990	0.0292	0.0000	121.2289
Total	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4990	120.4990	0.0292	0.0000	121.2289

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5200e-003	0.0984	0.0341	4.5000e-004	0.0148	5.9000e-004	0.0154	4.2800e-003	5.6000e-004	4.8400e-003	0.0000	43.9854	43.9854	1.3800e-003	6.3700e-003	45.9191
Worker	0.0146	9.6400e-003	0.1224	3.8000e-004	0.0459	2.4000e-004	0.0461	0.0122	2.2000e-004	0.0124	0.0000	35.8491	35.8491	9.8000e-004	9.5000e-004	36.1557
Total	0.0171	0.1080	0.1565	8.3000e-004	0.0607	8.3000e-004	0.0615	0.0165	7.8000e-004	0.0173	0.0000	79.8344	79.8344	2.3600e-003	7.3200e-003	82.0747

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5700e-003	0.2621	0.0903	1.1800e-003	0.0399	1.5700e-003	0.0414	0.0115	1.5100e-003	0.0130	0.0000	116.0964	116.0964	3.8200e-003	0.0168	121.2016
Worker	0.0369	0.0235	0.3093	1.0000e-003	0.1235	6.2000e-004	0.1241	0.0328	5.7000e-004	0.0334	0.0000	94.1039	94.1039	2.4100e-003	2.3900e-003	94.8765
Total	0.0435	0.2856	0.3996	2.1800e-003	0.1634	2.1900e-003	0.1656	0.0443	2.0800e-003	0.0464	0.0000	210.2003	210.2003	6.2300e-003	0.0192	216.0781

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.10 Phase 2 Building Construction - 2025****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5700e-003	0.2621	0.0903	1.1800e-003	0.0399	1.5700e-003	0.0414	0.0115	1.5100e-003	0.0130	0.0000	116.0964	116.0964	3.8200e-003	0.0168	121.2016
Worker	0.0369	0.0235	0.3093	1.0000e-003	0.1235	6.2000e-004	0.1241	0.0328	5.7000e-004	0.0334	0.0000	94.1039	94.1039	2.4100e-003	2.3900e-003	94.8765
Total	0.0435	0.2856	0.3996	2.1800e-003	0.1634	2.1900e-003	0.1656	0.0443	2.0800e-003	0.0464	0.0000	210.2003	210.2003	6.2300e-003	0.0192	216.0781

3.10 Phase 2 Building Construction - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012
Total	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	7.9500e-003	2.7300e-003	4.0000e-005	1.2200e-003	5.0000e-005	1.2700e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	3.4906	3.4906	1.2000e-004	5.1000e-004	3.6441
Worker	1.0700e-003	6.6000e-004	8.9500e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8000e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.8172	2.8172	7.0000e-005	7.0000e-005	2.8395
Total	1.2700e-003	8.6100e-003	0.0117	7.0000e-005	5.0100e-003	7.0000e-005	5.0700e-003	1.3600e-003	7.0000e-005	1.4200e-003	0.0000	6.3078	6.3078	1.9000e-004	5.8000e-004	6.4836

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012
Total	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012

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3.10 Phase 2 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	7.9500e-003	2.7300e-003	4.0000e-005	1.2200e-003	5.0000e-005	1.2700e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	3.4906	3.4906	1.2000e-004	5.1000e-004	3.6441
Worker	1.0700e-003	6.6000e-004	8.9500e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8000e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.8172	2.8172	7.0000e-005	7.0000e-005	2.8395
Total	1.2700e-003	8.6100e-003	0.0117	7.0000e-005	5.0100e-003	7.0000e-005	5.0700e-003	1.3600e-003	7.0000e-005	1.4200e-003	0.0000	6.3078	6.3078	1.9000e-004	5.8000e-004	6.4836

3.11 Phase 3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2056	0.0000	0.2056	0.1037	0.0000	0.1037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0885	0.8523	0.8031	1.8900e-003		0.0345	0.0345		0.0317	0.0317	0.0000	166.2440	166.2440	0.0538	0.0000	167.5881
Total	0.0885	0.8523	0.8031	1.8900e-003	0.2056	0.0345	0.2400	0.1037	0.0317	0.1354	0.0000	166.2440	166.2440	0.0538	0.0000	167.5881

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 Phase 3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0160	0.9861	0.2759	4.2600e-003	0.1273	8.2700e-003	0.1355	0.0350	7.9200e-003	0.0429	0.0000	429.1798	429.1798	0.0239	0.0684	450.1470
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e-003	9.3000e-004	0.0123	4.0000e-005	4.8900e-003	2.0000e-005	4.9200e-003	1.3000e-003	2.0000e-005	1.3200e-003	0.0000	3.7277	3.7277	1.0000e-004	9.0000e-005	3.7583
Total	0.0175	0.9870	0.2881	4.3000e-003	0.1322	8.2900e-003	0.1405	0.0363	7.9400e-003	0.0442	0.0000	432.9075	432.9075	0.0240	0.0685	453.9054

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2056	0.0000	0.2056	0.1037	0.0000	0.1037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0885	0.8523	0.8031	1.8900e-003		0.0345	0.0345		0.0317	0.0317	0.0000	166.2438	166.2438	0.0538	0.0000	167.5879
Total	0.0885	0.8523	0.8031	1.8900e-003	0.2056	0.0345	0.2400	0.1037	0.0317	0.1354	0.0000	166.2438	166.2438	0.0538	0.0000	167.5879

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3.11 Phase 3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0160	0.9861	0.2759	4.2600e-003	0.1273	8.2700e-003	0.1355	0.0350	7.9200e-003	0.0429	0.0000	429.1798	429.1798	0.0239	0.0684	450.1470
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e-003	9.3000e-004	0.0123	4.0000e-005	4.8900e-003	2.0000e-005	4.9200e-003	1.3000e-003	2.0000e-005	1.3200e-003	0.0000	3.7277	3.7277	1.0000e-004	9.0000e-005	3.7583
Total	0.0175	0.9870	0.2881	4.3000e-003	0.1322	8.2900e-003	0.1405	0.0363	7.9400e-003	0.0442	0.0000	432.9075	432.9075	0.0240	0.0685	453.9054

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4950	212.4950	0.0512	0.0000	213.7752
Total	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4950	212.4950	0.0512	0.0000	213.7752

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1200e-003	0.1642	0.0566	7.4000e-004	0.0250	9.9000e-004	0.0260	7.2100e-003	9.4000e-004	8.1600e-003	0.0000	72.7561	72.7561	2.3900e-003	0.0105	75.9554
Worker	0.0234	0.0149	0.1958	6.3000e-004	0.0782	3.9000e-004	0.0786	0.0208	3.6000e-004	0.0211	0.0000	59.5643	59.5643	1.5300e-003	1.5100e-003	60.0533
Total	0.0275	0.1791	0.2524	1.3700e-003	0.1031	1.3800e-003	0.1045	0.0280	1.3000e-003	0.0293	0.0000	132.3204	132.3204	3.9200e-003	0.0121	136.0087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4948	212.4948	0.0512	0.0000	213.7749
Total	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4948	212.4948	0.0512	0.0000	213.7749

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1200e-003	0.1642	0.0566	7.4000e-004	0.0250	9.9000e-004	0.0260	7.2100e-003	9.4000e-004	8.1600e-003	0.0000	72.7561	72.7561	2.3900e-003	0.0105	75.9554
Worker	0.0234	0.0149	0.1958	6.3000e-004	0.0782	3.9000e-004	0.0786	0.0208	3.6000e-004	0.0211	0.0000	59.5643	59.5643	1.5300e-003	1.5100e-003	60.0533
Total	0.0275	0.1791	0.2524	1.3700e-003	0.1031	1.3800e-003	0.1045	0.0280	1.3000e-003	0.0293	0.0000	132.3204	132.3204	3.9200e-003	0.0121	136.0087

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.2480	0.0853	1.1100e-003	0.0381	1.4900e-003	0.0396	0.0110	1.4300e-003	0.0124	0.0000	108.9287	108.9287	3.7400e-003	0.0158	113.7206
Worker	0.0337	0.0207	0.2822	9.3000e-004	0.1193	5.7000e-004	0.1199	0.0317	5.3000e-004	0.0322	0.0000	88.7946	88.7946	2.1300e-003	2.1800e-003	89.4984
Total	0.0399	0.2687	0.3675	2.0400e-003	0.1574	2.0600e-003	0.1595	0.0427	1.9600e-003	0.0447	0.0000	197.7233	197.7233	5.8700e-003	0.0180	203.2190

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881

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3.12 Phase 3 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.2480	0.0853	1.1100e-003	0.0381	1.4900e-003	0.0396	0.0110	1.4300e-003	0.0124	0.0000	108.9287	108.9287	3.7400e-003	0.0158	113.7206
Worker	0.0337	0.0207	0.2822	9.3000e-004	0.1193	5.7000e-004	0.1199	0.0317	5.3000e-004	0.0322	0.0000	88.7946	88.7946	2.1300e-003	2.1800e-003	89.4984
Total	0.0399	0.2687	0.3675	2.0400e-003	0.1574	2.0600e-003	0.1595	0.0427	1.9600e-003	0.0447	0.0000	197.7233	197.7233	5.8700e-003	0.0180	203.2190

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7886	162.7886	0.0392	0.0000	163.7693
Total	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7886	162.7886	0.0392	0.0000	163.7693

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3.12 Phase 3 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9900e-003	0.1231	0.0424	5.4000e-004	0.0191	7.4000e-004	0.0199	5.5300e-003	7.1000e-004	6.2400e-003	0.0000	53.5427	53.5427	1.9200e-003	7.7500e-003	55.8996
Worker	0.0160	9.5500e-003	0.1345	4.5000e-004	0.0599	2.7000e-004	0.0602	0.0159	2.5000e-004	0.0162	0.0000	43.6045	43.6045	9.8000e-004	1.0400e-003	43.9395
Total	0.0190	0.1327	0.1769	9.9000e-004	0.0790	1.0100e-003	0.0800	0.0214	9.6000e-004	0.0224	0.0000	97.1472	97.1472	2.9000e-003	8.7900e-003	99.8392

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7884	162.7884	0.0392	0.0000	163.7691
Total	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7884	162.7884	0.0392	0.0000	163.7691

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9900e-003	0.1231	0.0424	5.4000e-004	0.0191	7.4000e-004	0.0199	5.5300e-003	7.1000e-004	6.2400e-003	0.0000	53.5427	53.5427	1.9200e-003	7.7500e-003	55.8996
Worker	0.0160	9.5500e-003	0.1345	4.5000e-004	0.0599	2.7000e-004	0.0602	0.0159	2.5000e-004	0.0162	0.0000	43.6045	43.6045	9.8000e-004	1.0400e-003	43.9395
Total	0.0190	0.1327	0.1769	9.9000e-004	0.0790	1.0100e-003	0.0800	0.0214	9.6000e-004	0.0224	0.0000	97.1472	97.1472	2.9000e-003	8.7900e-003	99.8392

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5800e-003	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520
Total	1.0557	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4100e-003	9.0000e-004	0.0118	4.0000e-005	4.7200e-003	2.0000e-005	4.7400e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.5933	3.5933	9.0000e-005	9.0000e-005	3.6228
Total	1.4100e-003	9.0000e-004	0.0118	4.0000e-005	4.7200e-003	2.0000e-005	4.7400e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.5933	3.5933	9.0000e-005	9.0000e-005	3.6228

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5800e-003	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520
Total	1.0557	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520

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3.13 Phase 2 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4100e-003	9.0000e-004	0.0118	4.0000e-005	4.7200e-003	2.0000e-005	4.7400e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.5933	3.5933	9.0000e-005	9.0000e-005	3.6228
Total	1.4100e-003	9.0000e-004	0.0118	4.0000e-005	4.7200e-003	2.0000e-005	4.7400e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.5933	3.5933	9.0000e-005	9.0000e-005	3.6228

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636
Total	0.1724	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636

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3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.3000e-004	1.8200e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5730	0.5730	1.0000e-005	1.0000e-005	0.5775
Total	2.2000e-004	1.3000e-004	1.8200e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5730	0.5730	1.0000e-005	1.0000e-005	0.5775

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636
Total	0.1724	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636

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3.13 Phase 2 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.3000e-004	1.8200e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5730	0.5730	1.0000e-005	1.0000e-005	0.5775
Total	2.2000e-004	1.3000e-004	1.8200e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5730	0.5730	1.0000e-005	1.0000e-005	0.5775

3.14 Phase 3 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0966	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2031	211.2031	0.0683	0.0000	212.9108
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0979	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2031	211.2031	0.0683	0.0000	212.9108

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5900e-003	2.2000e-003	0.0300	1.0000e-004	0.0127	6.0000e-005	0.0128	3.3700e-003	6.0000e-005	3.4300e-003	0.0000	9.4453	9.4453	2.3000e-004	2.3000e-004	9.5202
Total	3.5900e-003	2.2000e-003	0.0300	1.0000e-004	0.0127	6.0000e-005	0.0128	3.3700e-003	6.0000e-005	3.4300e-003	0.0000	9.4453	9.4453	2.3000e-004	2.3000e-004	9.5202

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0966	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2029	211.2029	0.0683	0.0000	212.9106
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0979	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2029	211.2029	0.0683	0.0000	212.9106

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5900e-003	2.2000e-003	0.0300	1.0000e-004	0.0127	6.0000e-005	0.0128	3.3700e-003	6.0000e-005	3.4300e-003	0.0000	9.4453	9.4453	2.3000e-004	2.3000e-004	9.5202
Total	3.5900e-003	2.2000e-003	0.0300	1.0000e-004	0.0127	6.0000e-005	0.0128	3.3700e-003	6.0000e-005	3.4300e-003	0.0000	9.4453	9.4453	2.3000e-004	2.3000e-004	9.5202

3.15 Phase 4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0448	0.0000	0.0448	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1397	0.1317	3.1000e-004		5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4735
Total	0.0145	0.1397	0.1317	3.1000e-004	0.0448	5.6500e-003	0.0504	0.0182	5.2000e-003	0.0234	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4735

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1500e-003	0.1320	0.0380	5.7000e-004	0.0173	1.1100e-003	0.0184	4.7500e-003	1.0700e-003	5.8200e-003	0.0000	57.1232	57.1232	3.3400e-003	9.1100e-003	59.9200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.4000e-004	1.9000e-003	1.0000e-005	8.0000e-004	0.0000	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.5969	0.5969	1.0000e-005	1.0000e-005	0.6016
Total	2.3800e-003	0.1321	0.0399	5.8000e-004	0.0181	1.1100e-003	0.0192	4.9600e-003	1.0700e-003	6.0400e-003	0.0000	57.7200	57.7200	3.3500e-003	9.1200e-003	60.5216

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0448	0.0000	0.0448	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1397	0.1317	3.1000e-004		5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4734
Total	0.0145	0.1397	0.1317	3.1000e-004	0.0448	5.6500e-003	0.0504	0.0182	5.2000e-003	0.0234	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4734

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1500e-003	0.1320	0.0380	5.7000e-004	0.0173	1.1100e-003	0.0184	4.7500e-003	1.0700e-003	5.8200e-003	0.0000	57.1232	57.1232	3.3400e-003	9.1100e-003	59.9200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.4000e-004	1.9000e-003	1.0000e-005	8.0000e-004	0.0000	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.5969	0.5969	1.0000e-005	1.0000e-005	0.6016
Total	2.3800e-003	0.1321	0.0399	5.8000e-004	0.0181	1.1100e-003	0.0192	4.9600e-003	1.0700e-003	6.0400e-003	0.0000	57.7200	57.7200	3.3500e-003	9.1200e-003	60.5216

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9216	224.9216	0.0542	0.0000	226.2767
Total	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9216	224.9216	0.0542	0.0000	226.2767

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9800e-003	0.1212	0.0417	5.4000e-004	0.0186	7.3000e-004	0.0194	5.3800e-003	7.0000e-004	6.0800e-003	0.0000	53.2218	53.2218	1.8300e-003	7.7000e-003	55.5631
Worker	0.0162	9.9500e-003	0.1356	4.5000e-004	0.0573	2.7000e-004	0.0576	0.0152	2.5000e-004	0.0155	0.0000	42.6724	42.6724	1.0200e-003	1.0500e-003	43.0106
Total	0.0192	0.1311	0.1773	9.9000e-004	0.0760	1.0000e-003	0.0770	0.0206	9.5000e-004	0.0216	0.0000	95.8942	95.8942	2.8500e-003	8.7500e-003	98.5737

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9214	224.9214	0.0542	0.0000	226.2764
Total	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9214	224.9214	0.0542	0.0000	226.2764

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9800e-003	0.1212	0.0417	5.4000e-004	0.0186	7.3000e-004	0.0194	5.3800e-003	7.0000e-004	6.0800e-003	0.0000	53.2218	53.2218	1.8300e-003	7.7000e-003	55.5631
Worker	0.0162	9.9500e-003	0.1356	4.5000e-004	0.0573	2.7000e-004	0.0576	0.0152	2.5000e-004	0.0155	0.0000	42.6724	42.6724	1.0200e-003	1.0500e-003	43.0106
Total	0.0192	0.1311	0.1773	9.9000e-004	0.0760	1.0000e-003	0.0770	0.0206	9.5000e-004	0.0216	0.0000	95.8942	95.8942	2.8500e-003	8.7500e-003	98.5737

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0919	323.0919	0.0779	0.0000	325.0383
Total	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0919	323.0919	0.0779	0.0000	325.0383

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1900e-003	0.1722	0.0593	7.6000e-004	0.0268	1.0400e-003	0.0278	7.7300e-003	9.9000e-004	8.7200e-003	0.0000	74.8706	74.8706	2.6900e-003	0.0108	78.1664
Worker	0.0220	0.0131	0.1849	6.2000e-004	0.0824	3.7000e-004	0.0827	0.0219	3.4000e-004	0.0222	0.0000	59.9730	59.9730	1.3500e-003	1.4300e-003	60.4338
Total	0.0262	0.1853	0.2442	1.3800e-003	0.1091	1.4100e-003	0.1105	0.0296	1.3300e-003	0.0310	0.0000	134.8436	134.8436	4.0400e-003	0.0123	138.6002

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0915	323.0915	0.0779	0.0000	325.0379
Total	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0915	323.0915	0.0779	0.0000	325.0379

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3.16 Phase 4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1900e-003	0.1722	0.0593	7.6000e-004	0.0268	1.0400e-003	0.0278	7.7300e-003	9.9000e-004	8.7200e-003	0.0000	74.8706	74.8706	2.6900e-003	0.0108	78.1664
Worker	0.0220	0.0131	0.1849	6.2000e-004	0.0824	3.7000e-004	0.0827	0.0219	3.4000e-004	0.0222	0.0000	59.9730	59.9730	1.3500e-003	1.4300e-003	60.4338
Total	0.0262	0.1853	0.2442	1.3800e-003	0.1091	1.4100e-003	0.1105	0.0296	1.3300e-003	0.0310	0.0000	134.8436	134.8436	4.0400e-003	0.0123	138.6002

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6865	0.0000	0.6865	0.3774	0.0000	0.3774	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0940	0.9589	0.6807	1.4500e-003		0.0413	0.0413		0.0380	0.0380	0.0000	127.1746	127.1746	0.0411	0.0000	128.2028
Total	0.0940	0.9589	0.6807	1.4500e-003	0.6865	0.0413	0.7278	0.3774	0.0380	0.4154	0.0000	127.1746	127.1746	0.0411	0.0000	128.2028

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	9.5000e-004	0.0130	4.0000e-005	5.4900e-003	3.0000e-005	5.5100e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	4.0825	4.0825	1.0000e-004	1.0000e-004	4.1149
Total	1.5500e-003	9.5000e-004	0.0130	4.0000e-005	5.4900e-003	3.0000e-005	5.5100e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	4.0825	4.0825	1.0000e-004	1.0000e-004	4.1149

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6865	0.0000	0.6865	0.3774	0.0000	0.3774	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0940	0.9589	0.6807	1.4500e-003		0.0413	0.0413		0.0380	0.0380	0.0000	127.1744	127.1744	0.0411	0.0000	128.2027
Total	0.0940	0.9589	0.6807	1.4500e-003	0.6865	0.0413	0.7278	0.3774	0.0380	0.4154	0.0000	127.1744	127.1744	0.0411	0.0000	128.2027

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3.17 Phase 3 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	9.5000e-004	0.0130	4.0000e-005	5.4900e-003	3.0000e-005	5.5100e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	4.0825	4.0825	1.0000e-004	1.0000e-004	4.1149
Total	1.5500e-003	9.5000e-004	0.0130	4.0000e-005	5.4900e-003	3.0000e-005	5.5100e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	4.0825	4.0825	1.0000e-004	1.0000e-004	4.1149

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1833	0.0000	1.1833	0.6505	0.0000	0.6505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1620	1.6528	1.1732	2.4900e-003		0.0712	0.0712		0.0655	0.0655	0.0000	219.2088	219.2088	0.0709	0.0000	220.9812
Total	0.1620	1.6528	1.1732	2.4900e-003	1.1833	0.0712	1.2545	0.6505	0.0655	0.7160	0.0000	219.2088	219.2088	0.0709	0.0000	220.9812

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3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5300e-003	1.5100e-003	0.0212	7.0000e-005	9.4500e-003	4.0000e-005	9.5000e-003	2.5100e-003	4.0000e-005	2.5500e-003	0.0000	6.8849	6.8849	1.6000e-004	1.6000e-004	6.9378
Total	2.5300e-003	1.5100e-003	0.0212	7.0000e-005	9.4500e-003	4.0000e-005	9.5000e-003	2.5100e-003	4.0000e-005	2.5500e-003	0.0000	6.8849	6.8849	1.6000e-004	1.6000e-004	6.9378

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1833	0.0000	1.1833	0.6505	0.0000	0.6505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1620	1.6528	1.1732	2.4900e-003		0.0712	0.0712		0.0655	0.0655	0.0000	219.2085	219.2085	0.0709	0.0000	220.9809
Total	0.1620	1.6528	1.1732	2.4900e-003	1.1833	0.0712	1.2545	0.6505	0.0655	0.7160	0.0000	219.2085	219.2085	0.0709	0.0000	220.9809

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3.17 Phase 3 Site Preparation - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5300e-003	1.5100e-003	0.0212	7.0000e-005	9.4500e-003	4.0000e-005	9.5000e-003	2.5100e-003	4.0000e-005	2.5500e-003	0.0000	6.8849	6.8849	1.6000e-004	1.6000e-004	6.9378
Total	2.5300e-003	1.5100e-003	0.0212	7.0000e-005	9.4500e-003	4.0000e-005	9.5000e-003	2.5100e-003	4.0000e-005	2.5500e-003	0.0000	6.8849	6.8849	1.6000e-004	1.6000e-004	6.9378

3.18 Phase 4 Demo - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0345	0.0000	0.0345	5.2300e-003	0.0000	5.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2400	0.2427	4.9000e-004		0.0107	0.0107		9.9000e-003	9.9000e-003	0.0000	42.4971	42.4971	0.0119	0.0000	42.7937
Total	0.0262	0.2400	0.2427	4.9000e-004	0.0345	0.0107	0.0452	5.2300e-003	9.9000e-003	0.0151	0.0000	42.4971	42.4971	0.0119	0.0000	42.7937

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0203	5.9900e-003	9.0000e-005	2.7000e-003	1.7000e-004	2.8700e-003	7.4000e-004	1.6000e-004	9.1000e-004	0.0000	8.7051	8.7051	5.3000e-004	1.3900e-003	9.1323
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.4000e-004	3.3800e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.0949	1.0949	2.0000e-005	3.0000e-005	1.1033
Total	7.3000e-004	0.0205	9.3700e-003	1.0000e-004	4.2000e-003	1.8000e-004	4.3800e-003	1.1400e-003	1.7000e-004	1.3200e-003	0.0000	9.8001	9.8001	5.5000e-004	1.4200e-003	10.2356

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0345	0.0000	0.0345	5.2300e-003	0.0000	5.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2400	0.2427	4.9000e-004		0.0107	0.0107		9.9000e-003	9.9000e-003	0.0000	42.4970	42.4970	0.0119	0.0000	42.7937
Total	0.0262	0.2400	0.2427	4.9000e-004	0.0345	0.0107	0.0452	5.2300e-003	9.9000e-003	0.0151	0.0000	42.4970	42.4970	0.0119	0.0000	42.7937

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3.18 Phase 4 Demo - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0203	5.9900e-003	9.0000e-005	2.7000e-003	1.7000e-004	2.8700e-003	7.4000e-004	1.6000e-004	9.1000e-004	0.0000	8.7051	8.7051	5.3000e-004	1.3900e-003	9.1323
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.4000e-004	3.3800e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.0949	1.0949	2.0000e-005	3.0000e-005	1.1033
Total	7.3000e-004	0.0205	9.3700e-003	1.0000e-004	4.2000e-003	1.8000e-004	4.3800e-003	1.1400e-003	1.7000e-004	1.3200e-003	0.0000	9.8001	9.8001	5.5000e-004	1.4200e-003	10.2356

3.19 Building E Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0888	0.0000	0.0888	0.0428	0.0000	0.0428	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3493	0.3291	7.8000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	68.1328	68.1328	0.0220	0.0000	68.6837
Total	0.0363	0.3493	0.3291	7.8000e-004	0.0888	0.0141	0.1029	0.0428	0.0130	0.0559	0.0000	68.1328	68.1328	0.0220	0.0000	68.6837

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3.19 Building E Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.2000e-004	4.5000e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4599	1.4599	3.0000e-005	3.0000e-005	1.4711
Total	5.4000e-004	3.2000e-004	4.5000e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4599	1.4599	3.0000e-005	3.0000e-005	1.4711

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0888	0.0000	0.0888	0.0428	0.0000	0.0428	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3493	0.3291	7.8000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	68.1327	68.1327	0.0220	0.0000	68.6836
Total	0.0363	0.3493	0.3291	7.8000e-004	0.0888	0.0141	0.1029	0.0428	0.0130	0.0559	0.0000	68.1327	68.1327	0.0220	0.0000	68.6836

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3.19 Building E Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.2000e-004	4.5000e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4599	1.4599	3.0000e-005	3.0000e-005	1.4711
Total	5.4000e-004	3.2000e-004	4.5000e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4599	1.4599	3.0000e-005	3.0000e-005	1.4711

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359
Total	1.1218	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.1800e-003	0.0166	6.0000e-005	7.3800e-003	3.0000e-005	7.4100e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.3725	5.3725	1.2000e-004	1.3000e-004	5.4137
Total	1.9700e-003	1.1800e-003	0.0166	6.0000e-005	7.3800e-003	3.0000e-005	7.4100e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.3725	5.3725	1.2000e-004	1.3000e-004	5.4137

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359
Total	1.1218	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359

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3.20 Phase 3 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.1800e-003	0.0166	6.0000e-005	7.3800e-003	3.0000e-005	7.4100e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.3725	5.3725	1.2000e-004	1.3000e-004	5.4137
Total	1.9700e-003	1.1800e-003	0.0166	6.0000e-005	7.3800e-003	3.0000e-005	7.4100e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.3725	5.3725	1.2000e-004	1.3000e-004	5.4137

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7925					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8091	22.8091	1.2400e-003	0.0000	22.8402
Total	0.8077	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8091	22.8091	1.2400e-003	0.0000	22.8402

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3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-003	1.3700e-003	0.0193	7.0000e-005	8.6000e-003	4.0000e-005	8.6400e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	6.2601	6.2601	1.4000e-004	1.5000e-004	6.3082
Total	2.3000e-003	1.3700e-003	0.0193	7.0000e-005	8.6000e-003	4.0000e-005	8.6400e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	6.2601	6.2601	1.4000e-004	1.5000e-004	6.3082

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7925					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8090	22.8090	1.2400e-003	0.0000	22.8401
Total	0.8077	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8090	22.8090	1.2400e-003	0.0000	22.8401

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3.21 Phase 4 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-003	1.3700e-003	0.0193	7.0000e-005	8.6000e-003	4.0000e-005	8.6400e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	6.2601	6.2601	1.4000e-004	1.5000e-004	6.3082
Total	2.3000e-003	1.3700e-003	0.0193	7.0000e-005	8.6000e-003	4.0000e-005	8.6400e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	6.2601	6.2601	1.4000e-004	1.5000e-004	6.3082

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3386	2.3480	21.7047	0.0456	5.7557	0.0318	5.7875	1.5359	0.0296	1.5656	0.0000	4,460.9174	4,460.9174	0.3111	0.1959	4,527.0776
Unmitigated	2.3386	2.3480	21.7047	0.0456	5.7557	0.0318	5.7875	1.5359	0.0296	1.5656	0.0000	4,460.9174	4,460.9174	0.3111	0.1959	4,527.0776

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking Structure	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Research & Development	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707
Total	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking Structure	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
Parking Lot	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Research & Development	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,349.1325	3,349.1325	0.2047	0.0248	3,361.6426
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,349.1325	3,349.1325	0.2047	0.0248	3,361.6426
NaturalGas Mitigated	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270
NaturalGas Unmitigated	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	1.1513e+007	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270
Total		0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	1.1513e+007	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270
Total		0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking Structure	5.4831e+006	1,342.9801	0.0821	9.9500e-003	1,347.9966
Parking Lot	15680	3.8405	2.3000e-004	3.0000e-005	3.8549
Research & Development	8.17501e+006	2,002.3119	0.1224	0.0148	2,009.7911
Total		3,349.1325	0.2047	0.0248	3,361.6426

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking Structure	5.4831e+006	1,342.9801	0.0821	9.9500e-003	1,347.9966
Parking Lot	15680	3.8405	2.3000e-004	3.0000e-005	3.8549
Research & Development	8.17501e+006	2,002.3119	0.1224	0.0148	2,009.7911
Total		3,349.1325	0.2047	0.0248	3,361.6426

6.0 Area Detail

6.1 Mitigation Measures Area

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Unmitigated	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1400e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1400e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

7.0 Water Detail

7.1 Mitigation Measures Water

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,378.457 7	12.8863	0.3118	1,793.516 7
Unmitigated	1,378.457 7	12.8863	0.3118	1,793.516 7

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	393.115 / 0	1,378.457 7	12.8863	0.3118	1,793.516 7
Total		1,378.457 7	12.8863	0.3118	1,793.516 7

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	393.115 / 0	1,378.457 7	12.8863	0.3118	1,793.516 7
Total		1,378.457 7	12.8863	0.3118	1,793.516 7

8.0 Waste Detail

8.1 Mitigation Measures Waste

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.4172	0.9111	0.0000	38.1954
Unmitigated	15.4172	0.9111	0.0000	38.1954

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	75.95	15.4172	0.9111	0.0000	38.1954
Total		15.4172	0.9111	0.0000	38.1954

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	75.95	15.4172	0.9111	0.0000	38.1954
Total		15.4172	0.9111	0.0000	38.1954

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	0.5	100	2346	0.73	Diesel
Emergency Generator	2	0.5	100	2923	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	150	27000	15	CNG

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Boiler	3	150	27000	16	CNG
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User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (5 - 75 MMBTU)	0.3640	0.7425	6.4854	0.0397		0.5030	0.5030		0.5030	0.5030	0.0000	7,204.2372	7,204.2372	0.1381	0.0000	7,207.6892
Emergency Generator - Diesel (750 - 9999 HP)	1.2497	5.5885	3.1864	6.0100e-003		0.1838	0.1838		0.1838	0.1838	0.0000	579.9541	579.9541	0.0813	0.0000	581.9869
Total	1.6137	6.3310	9.6718	0.0457		0.6868	0.6868		0.6868	0.6868	0.0000	7,784.1913	7,784.1913	0.2194	0.0000	7,789.6761

11.0 Vegetation

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Towne Centre View

San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	999.39	1000sqft	24.49	999,390.00	0
Enclosed Parking Structure	2,611.00	Space	0.00	1,044,400.00	0
Parking Lot	112.00	Space	1.01	44,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	539.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Site Plan, aall parking gragaes will be below ground

Construction Phase - based on project engineer input

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

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Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

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Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Trips and VMT - Building Constructiton/Architectural Coatings trips based on square footage being built in each pahse per CalEEMod User Manual Appendix A.

Grading - based on site acerage

Vehicle Trips - per TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Water And Wastewater - 20% reduction over year 2000 survey per CalGreen

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	35.00	79.00
tblConstructionPhase	NumDays	35.00	129.00
tblConstructionPhase	NumDays	35.00	121.00
tblConstructionPhase	NumDays	440.00	548.00
tblConstructionPhase	NumDays	440.00	428.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	440.00	550.00
tblConstructionPhase	NumDays	440.00	354.00
tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	30.00	76.00
tblConstructionPhase	NumDays	45.00	61.00
tblConstructionPhase	NumDays	45.00	10.00
tblConstructionPhase	NumDays	45.00	25.00
tblConstructionPhase	NumDays	45.00	100.00
tblConstructionPhase	NumDays	45.00	30.00
tblConstructionPhase	NumDays	35.00	212.00
tblConstructionPhase	NumDays	35.00	181.00
tblConstructionPhase	NumDays	20.00	202.00
tblConstructionPhase	NumDays	20.00	226.00
tblGrading	AcresOfGrading	183.00	25.50
tblGrading	AcresOfGrading	30.00	25.50
tblGrading	AcresOfGrading	75.00	25.50
tblGrading	AcresOfGrading	400.00	25.50
tblGrading	AcresOfGrading	90.00	25.50
tblGrading	AcresOfGrading	303.00	0.00
tblGrading	AcresOfGrading	452.00	0.00
tblGrading	MaterialExported	0.00	118,876.00
tblGrading	MaterialExported	0.00	16,159.00
tblGrading	MaterialExported	0.00	146,600.00
tblGrading	MaterialExported	0.00	15,406.00
tblGrading	MaterialImported	0.00	1,727.00
tblGrading	MaterialImported	0.00	6,174.00
tblLandUse	LotAcreage	22.94	24.49
tblLandUse	LotAcreage	23.50	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	342.00	44.00
tblTripsAndVMT	VendorTripNumber	342.00	31.00
tblTripsAndVMT	VendorTripNumber	342.00	42.00
tblTripsAndVMT	VendorTripNumber	342.00	46.00
tblTripsAndVMT	WorkerTripNumber	777.00	114.00
tblTripsAndVMT	WorkerTripNumber	155.00	24.00
tblTripsAndVMT	WorkerTripNumber	777.00	79.00
tblTripsAndVMT	WorkerTripNumber	155.00	23.00
tblTripsAndVMT	WorkerTripNumber	155.00	16.00
tblTripsAndVMT	WorkerTripNumber	777.00	107.00
tblTripsAndVMT	WorkerTripNumber	18.00	15.00
tblTripsAndVMT	WorkerTripNumber	155.00	21.00
tblTripsAndVMT	WorkerTripNumber	777.00	118.00
tblVehicleTrips	WD_TR	11.26	8.00
tblWater	IndoorWaterUseRate	491,394,013.90	393,115,211.10

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.8023	83.5033	46.4119	0.2052	9.9902	2.4532	12.4433	4.3252	2.2793	6.6045	0.0000	21,412.55 36	21,412.55 36	3.1594	2.0406	22,099.62 79
2023	9.3789	91.5907	78.7383	0.1723	29.5725	4.1241	33.6966	14.2907	3.8202	18.1109	0.0000	16,909.47 32	16,909.47 32	4.1746	0.3372	17,114.33 95
2024	28.4685	94.9863	74.2374	0.2112	34.3340	3.6756	38.0096	17.5385	3.4048	20.9433	0.0000	21,293.65 74	21,293.65 74	4.3587	1.0902	21,727.51 30
2025	46.7219	74.6002	56.0651	0.2489	12.4453	1.9842	14.4296	4.9579	1.8468	6.8047	0.0000	26,207.34 76	26,207.34 76	3.5218	2.6334	27,080.13 55
2026	46.6851	77.3563	72.3633	0.2450	20.4308	2.6628	23.0936	10.5694	2.4723	13.0417	0.0000	25,490.18 47	25,490.18 47	4.1084	2.1620	26,237.18 02
2027	46.1061	105.6027	106.9936	0.2388	30.8717	4.3113	35.1830	14.5690	4.0023	18.5713	0.0000	23,417.33 23	23,417.33 23	5.6632	0.3832	23,673.09 93
Maximum	46.7219	105.6027	106.9936	0.2489	34.3340	4.3113	38.0096	17.5385	4.0023	20.9433	0.0000	26,207.34 76	26,207.34 76	5.6632	2.6334	27,080.13 55

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Energy	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Mobile	17.5797	15.6903	153.3589	0.3393	42.1730	0.2275	42.4006	11.2326	0.2123	11.4449		36,565.7741	36,565.7741	2.3696	1.4844	37,067.3645
Stationary	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890
Total	62.8213	82.9209	260.2596	0.8591	42.1730	7.8905	50.0636	11.2326	7.8753	19.1079		134,907.1601	134,907.1601	5.0304	1.5524	135,495.5425

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Energy	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Mobile	17.5797	15.6903	153.3589	0.3393	42.1730	0.2275	42.4006	11.2326	0.2123	11.4449		36,565.7741	36,565.7741	2.3696	1.4844	37,067.3645
Stationary	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890
Total	62.8213	82.9209	260.2596	0.8591	42.1730	7.8905	50.0636	11.2326	7.8753	19.1079		134,907.1601	134,907.1601	5.0304	1.5524	135,495.5425

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Utilities	Trenching	4/4/2022	12/19/2022	5	181	
2	Phase 1 Grading	Grading	5/14/2022	10/5/2022	5	100	
3	Phase 1 Building Construction	Building Construction	10/6/2022	12/5/2024	5	550	
4	Phase 1 Paving	Paving	4/28/2023	1/16/2024	5	181	

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Demo Existing	Demolition	8/31/2023	12/19/2023	5	76
6	Phase 1 Site Preparation	Site Preparation	12/18/2023	11/4/2024	5	226
7	Phase 1 Architectural Coating	Architectural Coating	5/15/2024	11/4/2024	5	121
8	Phase 2 Grading	Grading	7/8/2024	8/16/2024	5	30
9	Phase 2 Building Construction	Building Construction	8/17/2024	1/12/2026	5	354
10	Phase 3 Grading	Grading	2/11/2025	5/6/2025	5	61
11	Phase 3 Building Construction	Building Construction	5/7/2025	7/2/2027	5	548
12	Phase 2 Architectural Coating	Architectural Coating	10/24/2025	1/12/2026	5	53
13	Phase 3 Paving	Paving	2/23/2026	12/14/2026	5	212
14	Phase 4 Grading	Grading	4/9/2026	4/22/2026	5	10
15	Phase 4 Building Construction	Building Construction	4/23/2026	12/30/2027	5	428
16	Phase 3 Site Preparation	Site Preparation	9/17/2026	7/2/2027	5	202
17	Phase 4 Demo	Demolition	2/16/2027	3/22/2027	5	25
18	Building E Grading	Grading	2/16/2027	3/22/2027	5	25
19	Phase 3 Architectural Coating	Architectural Coating	3/15/2027	7/2/2027	5	79
20	Phase 4 Architectural Coating	Architectural Coating	6/26/2027	12/30/2027	5	129

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 25.5

Acres of Paving: 1.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,537; Non-Residential Outdoor: 63,590; Striped Parking Area: 65,352 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Utilities	Aerial Lifts	2	8.00	63	0.31
Phase 1 Utilities	Excavators	1	8.00	158	0.38
Phase 1 Utilities	Generator Sets	1	8.00	84	0.74
Phase 1 Grading	Crawler Tractors	2	8.00	212	0.43

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 1 Grading	Excavators	2	8.00	158	0.38
Phase 1 Grading	Graders	1	8.00	187	0.41
Phase 1 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1 Grading	Scrapers	2	8.00	367	0.48
Phase 1 Building Construction	Cranes	1	8.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 1 Paving	Rollers	2	8.00	80	0.38
Demo Existing	Concrete/Industrial Saws	1	8.00	81	0.73
Demo Existing	Excavators	3	8.00	158	0.38
Demo Existing	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1 Site Preparation	Rubber Tired Dozers	4	8.00	247	0.40
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 2 Grading	Excavators	2	8.00	158	0.38
Phase 2 Grading	Graders	1	8.00	187	0.41
Phase 2 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2 Grading	Scrapers	2	8.00	367	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2 Building Construction	Cranes	1	8.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Grading	Excavators	2	8.00	158	0.38

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 3 Grading	Graders	1	8.00	187	0.41
Phase 3 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 3 Grading	Scrapers	2	8.00	367	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Building Construction	Cranes	1	8.00	231	0.29
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 3 Paving	Pavers	2	8.00	130	0.42
Phase 3 Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Paving	Rollers	2	8.00	80	0.38
Phase 4 Grading	Excavators	2	8.00	158	0.38
Phase 4 Grading	Graders	1	8.00	187	0.41
Phase 4 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 4 Grading	Scrapers	2	8.00	367	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 4 Building Construction	Cranes	1	8.00	231	0.29
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 4 Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 4 Demo	Excavators	3	8.00	158	0.38
Phase 4 Demo	Rubber Tired Dozers	2	8.00	247	0.40
Building E Grading	Excavators	2	8.00	158	0.38

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building E Grading	Graders	1	8.00	187	0.41
Building E Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building E Grading	Scrapers	2	8.00	367	0.48
Building E Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 4 Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Utilities	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	8	20.00	0.00	18,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	9	107.00	42.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Existing	7	15.00	0.00	1,261.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	8	20.00	0.00	2,698.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	9	118.00	46.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	8	20.00	0.00	14,860.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	9	114.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	8	20.00	0.00	2,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	9	79.00	31.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Demo	6	15.00	0.00	315.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building E Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 3 Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451		1,448.2895	1,448.2895	0.2965		1,455.7022
Total	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451		1,448.2895	1,448.2895	0.2965		1,455.7022

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 1 Utilities - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011
Total	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451	0.0000	1,448.2895	1,448.2895	0.2965		1,455.7022
Total	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451	0.0000	1,448.2895	1,448.2895	0.2965		1,455.7022

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 1 Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011
Total	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5009	0.0000	6.5009	3.3710	0.0000	3.3710			0.0000			0.0000
Off-Road	4.2792	47.5079	29.1953	0.0715		1.9081	1.9081		1.7554	1.7554		6,926.9974	6,926.9974	2.2403		6,983.0056
Total	4.2792	47.5079	29.1953	0.0715	6.5009	1.9081	8.4090	3.3710	1.7554	5.1264		6,926.9974	6,926.9974	2.2403		6,983.0056

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 1 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8309	30.1126	7.3197	0.1164	3.2428	0.2901	3.5329	0.8889	0.2775	1.1664		12,808.4854	12,808.4854	0.6160	2.0347	13,430.2169
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0584	0.0380	0.5186	1.5000e-003	0.1643	9.3000e-004	0.1652	0.0436	8.6000e-004	0.0444		152.5209	152.5209	4.3800e-003	3.9300e-003	153.8022
Total	0.8893	30.1506	7.8383	0.1179	3.4071	0.2910	3.6981	0.9324	0.2784	1.2108		12,961.0063	12,961.0063	0.6204	2.0386	13,584.0191

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5009	0.0000	6.5009	3.3710	0.0000	3.3710			0.0000			0.0000
Off-Road	4.2792	47.5079	29.1953	0.0715		1.9081	1.9081		1.7554	1.7554	0.0000	6,926.9974	6,926.9974	2.2403		6,983.0056
Total	4.2792	47.5079	29.1953	0.0715	6.5009	1.9081	8.4090	3.3710	1.7554	5.1264	0.0000	6,926.9974	6,926.9974	2.2403		6,983.0056

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 1 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8309	30.1126	7.3197	0.1164	3.2428	0.2901	3.5329	0.8889	0.2775	1.1664		12,808.4854	12,808.4854	0.6160	2.0347	13,430.2169
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0584	0.0380	0.5186	1.5000e-003	0.1643	9.3000e-004	0.1652	0.0436	8.6000e-004	0.0444		152.5209	152.5209	4.3800e-003	3.9300e-003	153.8022
Total	0.8893	30.1506	7.8383	0.1179	3.4071	0.2910	3.6981	0.9324	0.2784	1.2108		12,961.0063	12,961.0063	0.6204	2.0386	13,584.0191

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0936	2.2336	0.7472	8.9600e-003	0.2845	0.0243	0.3087	0.0819	0.0232	0.1051		965.2676	965.2676	0.0294	0.1401	1,007.7539
Worker	0.3124	0.2034	2.7744	8.0200e-003	0.8790	4.9800e-003	0.8840	0.2332	4.5800e-003	0.2377		815.9869	815.9869	0.0234	0.0210	822.8415
Total	0.4060	2.4369	3.5216	0.0170	1.1634	0.0293	1.1927	0.3150	0.0278	0.3429		1,781.2545	1,781.2545	0.0528	0.1612	1,830.5954

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0936	2.2336	0.7472	8.9600e-003	0.2845	0.0243	0.3087	0.0819	0.0232	0.1051		965.2676	965.2676	0.0294	0.1401	1,007.7539
Worker	0.3124	0.2034	2.7744	8.0200e-003	0.8790	4.9800e-003	0.8840	0.2332	4.5800e-003	0.2377		815.9869	815.9869	0.0234	0.0210	822.8415
Total	0.4060	2.4369	3.5216	0.0170	1.1634	0.0293	1.1927	0.3150	0.0278	0.3429		1,781.2545	1,781.2545	0.0528	0.1612	1,830.5954

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.1535	2,738.1535	0.6670		2,754.8288
Total	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.1535	2,738.1535	0.6670		2,754.8288

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.8005	0.6488	8.6000e-003	0.2845	0.0110	0.2954	0.0819	0.0105	0.0924		928.3972	928.3972	0.0281	0.1344	969.1592
Worker	0.2926	0.1817	2.5748	7.7700e-003	0.8790	4.7300e-003	0.8837	0.2332	4.3500e-003	0.2375		794.8533	794.8533	0.0213	0.0196	801.2168
Total	0.3428	1.9822	3.2237	0.0164	1.1634	0.0157	1.1791	0.3150	0.0148	0.3299		1,723.2505	1,723.2505	0.0494	0.1540	1,770.3761

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.1535	2,738.1535	0.6670		2,754.8288
Total	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.1535	2,738.1535	0.6670		2,754.8288

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.8005	0.6488	8.6000e-003	0.2845	0.0110	0.2954	0.0819	0.0105	0.0924		928.3972	928.3972	0.0281	0.1344	969.1592
Worker	0.2926	0.1817	2.5748	7.7700e-003	0.8790	4.7300e-003	0.8837	0.2332	4.3500e-003	0.2375		794.8533	794.8533	0.0213	0.0196	801.2168
Total	0.3428	1.9822	3.2237	0.0164	1.1634	0.0157	1.1791	0.3150	0.0148	0.3299		1,723.2505	1,723.2505	0.0494	0.1540	1,770.3761

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0483	1.7882	0.6337	8.4400e-003	0.2845	0.0110	0.2955	0.0819	0.0105	0.0924		912.2109	912.2109	0.0288	0.1321	952.2883
Worker	0.2748	0.1635	2.4062	7.5100e-003	0.8790	4.5100e-003	0.8835	0.2332	4.1500e-003	0.2373		774.8488	774.8488	0.0194	0.0183	780.7827
Total	0.3232	1.9516	3.0398	0.0160	1.1634	0.0155	1.1790	0.3150	0.0147	0.3297		1,687.0597	1,687.0597	0.0482	0.1504	1,733.0710

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0483	1.7882	0.6337	8.4400e-003	0.2845	0.0110	0.2955	0.0819	0.0105	0.0924		912.2109	912.2109	0.0288	0.1321	952.2883
Worker	0.2748	0.1635	2.4062	7.5100e-003	0.8790	4.5100e-003	0.8835	0.2332	4.1500e-003	0.2373		774.8488	774.8488	0.0194	0.0183	780.7827
Total	0.3232	1.9516	3.0398	0.0160	1.1634	0.0155	1.1790	0.3150	0.0147	0.3297		1,687.0597	1,687.0597	0.0482	0.1504	1,733.0710

3.5 Phase 1 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0474	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201
Total	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0474	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201
Total	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201

3.5 Phase 1 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0028	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0385	0.0229	0.3373	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		108.6237	108.6237	2.7100e-003	2.5600e-003	109.4555
Total	0.0385	0.0229	0.3373	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		108.6237	108.6237	2.7100e-003	2.5600e-003	109.4555

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0028	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0385	0.0229	0.3373	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		108.6237	108.6237	2.7100e-003	2.5600e-003	109.4555
Total	0.0385	0.0229	0.3373	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		108.6237	108.6237	2.7100e-003	2.5600e-003	109.4555

3.6 Demo Existing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6362	0.0000	3.6362	0.5507	0.0000	0.5507			0.0000			0.0000
Off-Road	2.9538	28.6116	22.7497	0.0474		1.3185	1.3185		1.2232	1.2232		4,573.9847	4,573.9847	1.3168		4,606.9057
Total	2.9538	28.6116	22.7497	0.0474	3.6362	1.3185	4.9547	0.5507	1.2232	1.7739		4,573.9847	4,573.9847	1.3168		4,606.9057

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0376	2.1705	0.5962	9.9300e-003	0.2902	0.0184	0.3086	0.0795	0.0176	0.0972		1,097.1983	1,097.1983	0.0553	0.1745	1,150.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201
Total	0.0786	2.1960	0.9572	0.0110	0.4134	0.0191	0.4325	0.1122	0.0182	0.1305		1,208.6264	1,208.6264	0.0583	0.1772	1,262.8967

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6362	0.0000	3.6362	0.5507	0.0000	0.5507			0.0000			0.0000
Off-Road	2.9538	28.6116	22.7497	0.0474		1.3185	1.3185		1.2232	1.2232	0.0000	4,573.9847	4,573.9847	1.3168		4,606.9057
Total	2.9538	28.6116	22.7497	0.0474	3.6362	1.3185	4.9547	0.5507	1.2232	1.7739	0.0000	4,573.9847	4,573.9847	1.3168		4,606.9057

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0376	2.1705	0.5962	9.9300e-003	0.2902	0.0184	0.3086	0.0795	0.0176	0.0972		1,097.1983	1,097.1983	0.0553	0.1745	1,150.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201
Total	0.0786	2.1960	0.9572	0.0110	0.4134	0.0191	0.4325	0.1122	0.0182	0.1305		1,208.6264	1,208.6264	0.0583	0.1772	1,262.8967

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.1928	33.1156	19.1194	0.0435		1.5111	1.5111		1.3902	1.3902		4,212.7323	4,212.7323	1.3625		4,246.7944
Total	3.1928	33.1156	19.1194	0.0435	24.0883	1.5111	25.5995	13.2409	1.3902	14.6312		4,212.7323	4,212.7323	1.3625		4,246.7944

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841
Total	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.1928	33.1156	19.1194	0.0435		1.5111	1.5111		1.3902	1.3902	0.0000	4,212.7323	4,212.7323	1.3625		4,246.7944
Total	3.1928	33.1156	19.1194	0.0435	24.0883	1.5111	25.5995	13.2409	1.3902	14.6312	0.0000	4,212.7323	4,212.7323	1.3625		4,246.7944

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841
Total	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.2120	32.8554	19.2311	0.0435		1.4841	1.4841		1.3653	1.3653		4,213.224 2	4,213.224 2	1.3626		4,247.290 3
Total	3.2120	32.8554	19.2311	0.0435	24.0883	1.4841	25.5724	13.2409	1.3653	14.6062		4,213.224 2	4,213.224 2	1.3626		4,247.290 3

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0462	0.0275	0.4048	1.2600e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		130.3484	130.3484	3.2600e-003	3.0800e-003	131.3466
Total	0.0462	0.0275	0.4048	1.2600e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		130.3484	130.3484	3.2600e-003	3.0800e-003	131.3466

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.2120	32.8554	19.2311	0.0435		1.4841	1.4841		1.3653	1.3653	0.0000	4,213.224 2	4,213.224 2	1.3626		4,247.290 3
Total	3.2120	32.8554	19.2311	0.0435	24.0883	1.4841	25.5724	13.2409	1.3653	14.6062	0.0000	4,213.224 2	4,213.224 2	1.3626		4,247.290 3

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0462	0.0275	0.4048	1.2600e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		130.3484	130.3484	3.2600e-003	3.0800e-003	131.3466
Total	0.0462	0.0275	0.4048	1.2600e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		130.3484	130.3484	3.2600e-003	3.0800e-003	131.3466

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.5543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	19.7953	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0539	0.0321	0.4722	1.4700e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		152.0731	152.0731	3.8000e-003	3.5900e-003	153.2377
Total	0.0539	0.0321	0.4722	1.4700e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		152.0731	152.0731	3.8000e-003	3.5900e-003	153.2377

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.5543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	19.7953	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Phase 1 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0539	0.0321	0.4722	1.4700e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		152.0731	152.0731	3.8000e-003	3.5900e-003	153.2377
Total	0.0539	0.0321	0.4722	1.4700e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		152.0731	152.0731	3.8000e-003	3.5900e-003	153.2377

3.9 Phase 2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0246	0.0000	7.0246	3.4229	0.0000	3.4229			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	7.0246	1.3354	8.3600	3.4229	1.2286	4.6514		6,009.7487	6,009.7487	1.9437		6,058.3405

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Phase 2 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2013	11.6622	3.2764	0.0527	1.5730	0.1004	1.6734	0.4312	0.0961	0.5273		5,842.3953	5,842.3953	0.3089	0.9298	6,127.1929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0514	0.0306	0.4498	1.4000e-003	0.1643	8.4000e-004	0.1651	0.0436	7.8000e-004	0.0444		144.8316	144.8316	3.6200e-003	3.4200e-003	145.9407
Total	0.2526	11.6928	3.7262	0.0541	1.7373	0.1013	1.8386	0.4747	0.0969	0.5716		5,987.2268	5,987.2268	0.3125	0.9332	6,273.1336

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0246	0.0000	7.0246	3.4229	0.0000	3.4229			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	7.0246	1.3354	8.3600	3.4229	1.2286	4.6514	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Phase 2 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2013	11.6622	3.2764	0.0527	1.5730	0.1004	1.6734	0.4312	0.0961	0.5273		5,842.3953	5,842.3953	0.3089	0.9298	6,127.1929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0514	0.0306	0.4498	1.4000e-003	0.1643	8.4000e-004	0.1651	0.0436	7.8000e-004	0.0444		144.8316	144.8316	3.6200e-003	3.4200e-003	145.9407
Total	0.2526	11.6928	3.7262	0.0541	1.7373	0.1013	1.8386	0.4747	0.0969	0.5716		5,987.2268	5,987.2268	0.3125	0.9332	6,273.1336

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0529	1.9585	0.6940	9.2400e-003	0.3116	0.0121	0.3236	0.0897	0.0116	0.1012		999.0881	999.0881	0.0315	0.1447	1,042.9824
Worker	0.3031	0.1803	2.6535	8.2800e-003	0.9693	4.9700e-003	0.9743	0.2571	4.5800e-003	0.2617		854.5062	854.5062	0.0214	0.0202	861.0501
Total	0.3560	2.1387	3.3475	0.0175	1.2809	0.0170	1.2979	0.3468	0.0161	0.3629		1,853.5943	1,853.5943	0.0529	0.1648	1,904.0325

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0529	1.9585	0.6940	9.2400e-003	0.3116	0.0121	0.3236	0.0897	0.0116	0.1012		999.0881	999.0881	0.0315	0.1447	1,042.9824
Worker	0.3031	0.1803	2.6535	8.2800e-003	0.9693	4.9700e-003	0.9743	0.2571	4.5800e-003	0.2617		854.5062	854.5062	0.0214	0.0202	861.0501
Total	0.3560	2.1387	3.3475	0.0175	1.2809	0.0170	1.2979	0.3468	0.0161	0.3629		1,853.5943	1,853.5943	0.0529	0.1648	1,904.0325

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0513	1.9392	0.6824	9.0500e-003	0.3116	0.0120	0.3236	0.0897	0.0115	0.1012		980.0292	980.0292	0.0323	0.1418	1,023.0998
Worker	0.2856	0.1633	2.4893	8.0000e-003	0.9693	4.7600e-003	0.9741	0.2571	4.3800e-003	0.2615		833.5570	833.5570	0.0195	0.0189	839.6852
Total	0.3369	2.1025	3.1716	0.0171	1.2809	0.0168	1.2977	0.3468	0.0159	0.3627		1,813.5862	1,813.5862	0.0518	0.1608	1,862.7850

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0513	1.9392	0.6824	9.0500e-003	0.3116	0.0120	0.3236	0.0897	0.0115	0.1012		980.0292	980.0292	0.0323	0.1418	1,023.0998
Worker	0.2856	0.1633	2.4893	8.0000e-003	0.9693	4.7600e-003	0.9741	0.2571	4.3800e-003	0.2615		833.5570	833.5570	0.0195	0.0189	839.6852
Total	0.3369	2.1025	3.1716	0.0171	1.2809	0.0168	1.2977	0.3468	0.0159	0.3627		1,813.5862	1,813.5862	0.0518	0.1608	1,862.7850

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0499	1.9184	0.6740	8.8700e-003	0.3116	0.0119	0.3235	0.0897	0.0114	0.1011		961.3066	961.3066	0.0331	0.1391	1,003.5724
Worker	0.2699	0.1491	2.3490	7.7500e-003	0.9693	4.5300e-003	0.9739	0.2571	4.1700e-003	0.2613		814.0713	814.0713	0.0178	0.0179	819.8498
Total	0.3198	2.0674	3.0230	0.0166	1.2809	0.0165	1.2974	0.3468	0.0156	0.3624		1,775.3778	1,775.3778	0.0509	0.1570	1,823.4223

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0499	1.9184	0.6740	8.8700e-003	0.3116	0.0119	0.3235	0.0897	0.0114	0.1011		961.3066	961.3066	0.0331	0.1391	1,003.5724
Worker	0.2699	0.1491	2.3490	7.7500e-003	0.9693	4.5300e-003	0.9739	0.2571	4.1700e-003	0.2613		814.0713	814.0713	0.0178	0.0179	819.8498
Total	0.3198	2.0674	3.0230	0.0166	1.2809	0.0165	1.2974	0.3468	0.0156	0.3624		1,775.3778	1,775.3778	0.0509	0.1570	1,823.4223

3.11 Phase 3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7393	0.0000	6.7393	3.3996	0.0000	3.3996			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.7393	1.1309	7.8701	3.3996	1.0404	4.4400		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 Phase 3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5389	31.1608	9.0026	0.1395	4.2609	0.2711	4.5320	1.1679	0.2593	1.4273		15,504.6005	15,504.6005	0.8633	2.4694	16,262.0666
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0277	0.4219	1.3600e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		141.2809	141.2809	3.3000e-003	3.2100e-003	142.3195
Total	0.5873	31.1885	9.4245	0.1409	4.4252	0.2719	4.6971	1.2115	0.2601	1.4716		15,645.8813	15,645.8813	0.8666	2.4726	16,404.3861

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7393	0.0000	6.7393	3.3996	0.0000	3.3996			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.7393	1.1309	7.8701	3.3996	1.0404	4.4400	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 Phase 3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5389	31.1608	9.0026	0.1395	4.2609	0.2711	4.5320	1.1679	0.2593	1.4273		15,504.6005	15,504.6005	0.8633	2.4694	16,262.0666
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0277	0.4219	1.3600e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		141.2809	141.2809	3.3000e-003	3.2100e-003	142.3195
Total	0.5873	31.1885	9.4245	0.1409	4.4252	0.2719	4.6971	1.2115	0.2601	1.4716		15,645.8813	15,645.8813	0.8666	2.4726	16,404.3861

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0491	1.8549	0.6527	8.6600e-003	0.2980	0.0115	0.3095	0.0858	0.0110	0.0968		937.4192	937.4192	0.0309	0.1357	978.6172
Worker	0.2759	0.1577	2.4049	7.7300e-003	0.9365	4.6000e-003	0.9411	0.2484	4.2300e-003	0.2526		805.3009	805.3009	0.0188	0.0183	811.2213
Total	0.3250	2.0126	3.0576	0.0164	1.2345	0.0161	1.2506	0.3342	0.0152	0.3494		1,742.7201	1,742.7201	0.0497	0.1539	1,789.8385

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0491	1.8549	0.6527	8.6600e-003	0.2980	0.0115	0.3095	0.0858	0.0110	0.0968		937.4192	937.4192	0.0309	0.1357	978.6172
Worker	0.2759	0.1577	2.4049	7.7300e-003	0.9365	4.6000e-003	0.9411	0.2484	4.2300e-003	0.2526		805.3009	805.3009	0.0188	0.0183	811.2213
Total	0.3250	2.0126	3.0576	0.0164	1.2345	0.0161	1.2506	0.3342	0.0152	0.3494		1,742.7201	1,742.7201	0.0497	0.1539	1,789.8385

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0477	1.8350	0.6447	8.4800e-003	0.2980	0.0114	0.3094	0.0858	0.0109	0.0967		919.5106	919.5106	0.0317	0.1330	959.9388
Worker	0.2608	0.1440	2.2694	7.4900e-003	0.9365	4.3800e-003	0.9409	0.2484	4.0300e-003	0.2524		786.4756	786.4756	0.0172	0.0173	792.0583
Total	0.3085	1.9790	2.9141	0.0160	1.2345	0.0158	1.2503	0.3342	0.0150	0.3492		1,705.9863	1,705.9863	0.0489	0.1503	1,751.9972

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0477	1.8350	0.6447	8.4800e-003	0.2980	0.0114	0.3094	0.0858	0.0109	0.0967		919.5106	919.5106	0.0317	0.1330	959.9388
Worker	0.2608	0.1440	2.2694	7.4900e-003	0.9365	4.3800e-003	0.9409	0.2484	4.0300e-003	0.2524		786.4756	786.4756	0.0172	0.0173	792.0583
Total	0.3085	1.9790	2.9141	0.0160	1.2345	0.0158	1.2503	0.3342	0.0150	0.3492		1,705.9863	1,705.9863	0.0489	0.1503	1,751.9972

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0466	1.8154	0.6382	8.2900e-003	0.2980	0.0113	0.3093	0.0858	0.0108	0.0966		900.4886	900.4886	0.0324	0.1302	940.1076
Worker	0.2466	0.1323	2.1528	7.2700e-003	0.9365	4.1300e-003	0.9406	0.2484	3.8000e-003	0.2522		769.4515	769.4515	0.0158	0.0164	774.7460
Total	0.2932	1.9477	2.7910	0.0156	1.2345	0.0155	1.2499	0.3342	0.0146	0.3488		1,669.9402	1,669.9402	0.0482	0.1467	1,714.8536

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0466	1.8154	0.6382	8.2900e-003	0.2980	0.0113	0.3093	0.0858	0.0108	0.0966		900.4886	900.4886	0.0324	0.1302	940.1076
Worker	0.2466	0.1323	2.1528	7.2700e-003	0.9365	4.1300e-003	0.9406	0.2484	3.8000e-003	0.2522		769.4515	769.4515	0.0158	0.0164	774.7460
Total	0.2932	1.9477	2.7910	0.0156	1.2345	0.0155	1.2499	0.3342	0.0146	0.3488		1,669.9402	1,669.9402	0.0482	0.1467	1,714.8536

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0581	0.0332	0.5063	1.6300e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		169.5370	169.5370	3.9600e-003	3.8500e-003	170.7834
Total	0.0581	0.0332	0.5063	1.6300e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		169.5370	169.5370	3.9600e-003	3.8500e-003	170.7834

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0581	0.0332	0.5063	1.6300e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		169.5370	169.5370	3.9600e-003	3.8500e-003	170.7834
Total	0.0581	0.0332	0.5063	1.6300e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		169.5370	169.5370	3.9600e-003	3.8500e-003	170.7834

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0549	0.0303	0.4778	1.5800e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		165.5738	165.5738	3.6200e-003	3.6400e-003	166.7491
Total	0.0549	0.0303	0.4778	1.5800e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		165.5738	165.5738	3.6200e-003	3.6400e-003	166.7491

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0549	0.0303	0.4778	1.5800e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		165.5738	165.5738	3.6200e-003	3.6400e-003	166.7491
Total	0.0549	0.0303	0.4778	1.5800e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		165.5738	165.5738	3.6200e-003	3.6400e-003	166.7491

3.14 Phase 3 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9276	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0343	0.0190	0.2986	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		103.4836	103.4836	2.2600e-003	2.2800e-003	104.2182
Total	0.0343	0.0190	0.2986	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		103.4836	103.4836	2.2600e-003	2.2800e-003	104.2182

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9276	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0343	0.0190	0.2986	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		103.4836	103.4836	2.2600e-003	2.2800e-003	104.2182
Total	0.0343	0.0190	0.2986	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		103.4836	103.4836	2.2600e-003	2.2800e-003	104.2182

3.15 Phase 4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9534	0.0000	8.9534	3.6366	0.0000	3.6366			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	8.9534	1.1309	10.0843	3.6366	1.0404	4.6770		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4413	25.4423	7.5646	0.1130	3.5332	0.2227	3.7559	0.9685	0.2130	1.1815		12,588.11 15	12,588.11 15	0.7372	2.0064	13,204.45 50
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0458	0.0253	0.3981	1.3100e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		137.9782	137.9782	3.0200e-003	3.0300e-003	138.9576
Total	0.4870	25.4675	7.9627	0.1143	3.6975	0.2234	3.9209	1.0121	0.2137	1.2258		12,726.08 97	12,726.08 97	0.7402	2.0095	13,343.41 26

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9534	0.0000	8.9534	3.6366	0.0000	3.6366			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	8.9534	1.1309	10.0843	3.6366	1.0404	4.6770	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4413	25.4423	7.5646	0.1130	3.5332	0.2227	3.7559	0.9685	0.2130	1.1815		12,588.11 15	12,588.11 15	0.7372	2.0064	13,204.45 50
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0458	0.0253	0.3981	1.3100e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		137.9782	137.9782	3.0200e-003	3.0300e-003	138.9576
Total	0.4870	25.4675	7.9627	0.1143	3.6975	0.2234	3.9209	1.0121	0.2137	1.2258		12,726.08 97	12,726.08 97	0.7402	2.0095	13,343.41 26

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.598 6	2,739.598 6	0.6602		2,756.103 0
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.598 6	2,739.598 6	0.6602		2,756.103 0

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0336	1.2928	0.4542	5.9800e-003	0.2100	8.0500e-003	0.2180	0.0604	7.7000e-003	0.0681		647.8370	647.8370	0.0223	0.0937	676.3206
Worker	0.1807	0.0998	1.5726	5.1900e-003	0.6490	3.0300e-003	0.6520	0.1721	2.7900e-003	0.1749		545.0138	545.0138	0.0119	0.0120	548.8825
Total	0.2143	1.3926	2.0269	0.0112	0.8589	0.0111	0.8700	0.2326	0.0105	0.2431		1,192.8509	1,192.8509	0.0343	0.1057	1,225.2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0336	1.2928	0.4542	5.9800e-003	0.2100	8.0500e-003	0.2180	0.0604	7.7000e-003	0.0681		647.8370	647.8370	0.0223	0.0937	676.3206
Worker	0.1807	0.0998	1.5726	5.1900e-003	0.6490	3.0300e-003	0.6520	0.1721	2.7900e-003	0.1749		545.0138	545.0138	0.0119	0.0120	548.8825
Total	0.2143	1.3926	2.0269	0.0112	0.8589	0.0111	0.8700	0.2326	0.0105	0.2431		1,192.8509	1,192.8509	0.0343	0.1057	1,225.2031

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0329	1.2790	0.4497	5.8400e-003	0.2100	7.9800e-003	0.2179	0.0604	7.6300e-003	0.0681		634.4352	634.4352	0.0228	0.0918	662.3486
Worker	0.1709	0.0917	1.4918	5.0400e-003	0.6490	2.8600e-003	0.6518	0.1721	2.6300e-003	0.1748		533.2164	533.2164	0.0109	0.0114	536.8854
Total	0.2038	1.3707	1.9415	0.0109	0.8589	0.0108	0.8698	0.2326	0.0103	0.2429		1,167.6516	1,167.6516	0.0338	0.1031	1,199.2339

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0329	1.2790	0.4497	5.8400e-003	0.2100	7.9800e-003	0.2179	0.0604	7.6300e-003	0.0681		634.4352	634.4352	0.0228	0.0918	662.3486
Worker	0.1709	0.0917	1.4918	5.0400e-003	0.6490	2.8600e-003	0.6518	0.1721	2.6300e-003	0.1748		533.2164	533.2164	0.0109	0.0114	536.8854
Total	0.2038	1.3707	1.9415	0.0109	0.8589	0.0108	0.8698	0.2326	0.0103	0.2429		1,167.6516	1,167.6516	0.0338	0.1031	1,199.2339

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0412	0.0227	0.3583	1.1800e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		124.1804	124.1804	2.7100e-003	2.7300e-003	125.0618
Total	0.0412	0.0227	0.3583	1.1800e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		124.1804	124.1804	2.7100e-003	2.7300e-003	125.0618

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0412	0.0227	0.3583	1.1800e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		124.1804	124.1804	2.7100e-003	2.7300e-003	125.0618
Total	0.0412	0.0227	0.3583	1.1800e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		124.1804	124.1804	2.7100e-003	2.7300e-003	125.0618

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0389	0.0209	0.3399	1.1500e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		121.4924	121.4924	2.4900e-003	2.6000e-003	122.3283
Total	0.0389	0.0209	0.3399	1.1500e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		121.4924	121.4924	2.4900e-003	2.6000e-003	122.3283

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0389	0.0209	0.3399	1.1500e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		121.4924	121.4924	2.4900e-003	2.6000e-003	122.3283
Total	0.0389	0.0209	0.3399	1.1500e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		121.4924	121.4924	2.4900e-003	2.6000e-003	122.3283

3.18 Phase 4 Demo - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7635	0.0000	2.7635	0.4185	0.0000	0.4185			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	2.7635	0.8528	3.6163	0.4185	0.7920	1.2105		3,747.5996	3,747.5996	1.0464		3,773.7606

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0272	1.5628	0.4768	6.8700e-003	0.2204	0.0138	0.2342	0.0604	0.0132	0.0736		767.3270	767.3270	0.0472	0.1224	804.9786
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0325	0.0174	0.2833	9.6000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.2436	101.2436	2.0800e-003	2.1600e-003	101.9403
Total	0.0597	1.5802	0.7601	7.8300e-003	0.3436	0.0143	0.3579	0.0931	0.0137	0.1068		868.5706	868.5706	0.0493	0.1246	906.9189

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7635	0.0000	2.7635	0.4185	0.0000	0.4185			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	2.7635	0.8528	3.6163	0.4185	0.7920	1.2105	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0272	1.5628	0.4768	6.8700e-003	0.2204	0.0138	0.2342	0.0604	0.0132	0.0736		767.3270	767.3270	0.0472	0.1224	804.9786
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0325	0.0174	0.2833	9.6000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.2436	101.2436	2.0800e-003	2.1600e-003	101.9403
Total	0.0597	1.5802	0.7601	7.8300e-003	0.3436	0.0143	0.3579	0.0931	0.0137	0.1068		868.5706	868.5706	0.0493	0.1246	906.9189

3.19 Building E Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1038	0.0000	7.1038	3.4270	0.0000	3.4270			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	7.1038	1.1309	8.2347	3.4270	1.0404	4.4675		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0433	0.0232	0.3777	1.2800e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		134.9915	134.9915	2.7700e-003	2.8800e-003	135.9204
Total	0.0433	0.0232	0.3777	1.2800e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		134.9915	134.9915	2.7700e-003	2.8800e-003	135.9204

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1038	0.0000	7.1038	3.4270	0.0000	3.4270			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	7.1038	1.1309	8.2347	3.4270	1.0404	4.4675	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0433	0.0232	0.3777	1.2800e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		134.9915	134.9915	2.7700e-003	2.8800e-003	135.9204
Total	0.0433	0.0232	0.3777	1.2800e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		134.9915	134.9915	2.7700e-003	2.8800e-003	135.9204

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	28.0455	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0267	0.4343	1.4700e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		155.2402	155.2402	3.1900e-003	3.3200e-003	156.3084
Total	0.0498	0.0267	0.4343	1.4700e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		155.2402	155.2402	3.1900e-003	3.3200e-003	156.3084

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	28.0455	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0267	0.4343	1.4700e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		155.2402	155.2402	3.1900e-003	3.3200e-003	156.3084
Total	0.0498	0.0267	0.4343	1.4700e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		155.2402	155.2402	3.1900e-003	3.3200e-003	156.3084

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	12.0555	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0346	0.0186	0.3021	1.0200e-003	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		107.9932	107.9932	2.2200e-003	2.3100e-003	108.7363
Total	0.0346	0.0186	0.3021	1.0200e-003	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		107.9932	107.9932	2.2200e-003	2.3100e-003	108.7363

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	12.0555	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0346	0.0186	0.3021	1.0200e-003	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		107.9932	107.9932	2.2200e-003	2.3100e-003	108.7363
Total	0.0346	0.0186	0.3021	1.0200e-003	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		107.9932	107.9932	2.2200e-003	2.3100e-003	108.7363

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.5797	15.6903	153.3589	0.3393	42.1730	0.2275	42.4006	11.2326	0.2123	11.4449		36,565.77 41	36,565.77 41	2.3696	1.4844	37,067.36 45
Unmitigated	17.5797	15.6903	153.3589	0.3393	42.1730	0.2275	42.4006	11.2326	0.2123	11.4449		36,565.77 41	36,565.77 41	2.3696	1.4844	37,067.36 45

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking Structure	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Research & Development	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707
Total	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking Structure	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
Parking Lot	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Research & Development	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
NaturalGas Unmitigated	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	31542.4	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Total		0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	31.5424	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Total		0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

6.0 Area Detail

6.1 Mitigation Measures Area

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Unmitigated	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.5529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Total	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.5529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Total	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	0.5	100	2346	0.73	Diesel
Emergency Generator	2	0.5	100	2923	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	150	27000	15	CNG
Boiler	3	150	27000	16	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Boiler - CNG (5 - 75 MMBTU)	4.0442	8.2501	72.0601	0.4412		5.5883	5.5883		5.5883	5.5883		88,236.8017	88,236.8017	1.6912		88,279.0818
Emergency Generator - Diesel (750 - 9999 HP)	12.4967	55.8846	31.8640	0.0601		1.8383	1.8383		1.8383	1.8383		6,392.9000	6,392.9000	0.8963		6,415.3072
Total	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890

11.0 Vegetation

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Towne Centre View
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	999.39	1000sqft	24.49	999,390.00	0
Enclosed Parking Structure	2,611.00	Space	0.00	1,044,400.00	0
Parking Lot	112.00	Space	1.01	44,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	539.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Site Plan, aall parking gragaes will be below ground

Construction Phase - based on project engineer input

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Off-road Equipment - 8-hours days, project engineer inputs

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
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- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs

Trips and VMT - Building Construcion/Architectural Coatings trips based on square footage being built in each pahse per CalEEMod User Manual Appendix A.

Grading - based on site acerage

Vehicle Trips - per TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Water And Wastewater - 20% reduction over year 2000 survey per CalGreen

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	35.00	79.00
tblConstructionPhase	NumDays	35.00	129.00
tblConstructionPhase	NumDays	35.00	121.00
tblConstructionPhase	NumDays	440.00	548.00
tblConstructionPhase	NumDays	440.00	428.00

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	440.00	550.00
tblConstructionPhase	NumDays	440.00	354.00
tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	30.00	76.00
tblConstructionPhase	NumDays	45.00	61.00
tblConstructionPhase	NumDays	45.00	10.00
tblConstructionPhase	NumDays	45.00	25.00
tblConstructionPhase	NumDays	45.00	100.00
tblConstructionPhase	NumDays	45.00	30.00
tblConstructionPhase	NumDays	35.00	212.00
tblConstructionPhase	NumDays	35.00	181.00
tblConstructionPhase	NumDays	20.00	202.00
tblConstructionPhase	NumDays	20.00	226.00
tblGrading	AcresOfGrading	183.00	25.50
tblGrading	AcresOfGrading	30.00	25.50
tblGrading	AcresOfGrading	75.00	25.50
tblGrading	AcresOfGrading	400.00	25.50
tblGrading	AcresOfGrading	90.00	25.50
tblGrading	AcresOfGrading	303.00	0.00
tblGrading	AcresOfGrading	452.00	0.00
tblGrading	MaterialExported	0.00	118,876.00
tblGrading	MaterialExported	0.00	16,159.00
tblGrading	MaterialExported	0.00	146,600.00
tblGrading	MaterialExported	0.00	15,406.00
tblGrading	MaterialImported	0.00	1,727.00
tblGrading	MaterialImported	0.00	6,174.00
tblLandUse	LotAcreage	22.94	24.49
tblLandUse	LotAcreage	23.50	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	342.00	44.00
tblTripsAndVMT	VendorTripNumber	342.00	31.00
tblTripsAndVMT	VendorTripNumber	342.00	42.00
tblTripsAndVMT	VendorTripNumber	342.00	46.00
tblTripsAndVMT	WorkerTripNumber	777.00	114.00
tblTripsAndVMT	WorkerTripNumber	155.00	24.00
tblTripsAndVMT	WorkerTripNumber	777.00	79.00
tblTripsAndVMT	WorkerTripNumber	155.00	23.00
tblTripsAndVMT	WorkerTripNumber	155.00	16.00
tblTripsAndVMT	WorkerTripNumber	777.00	107.00
tblTripsAndVMT	WorkerTripNumber	18.00	15.00
tblTripsAndVMT	WorkerTripNumber	155.00	21.00
tblTripsAndVMT	WorkerTripNumber	777.00	118.00
tblVehicleTrips	WD_TR	11.26	8.00
tblWater	IndoorWaterUseRate	491,394,013.90	393,115,211.10

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.7881	84.6410	46.4830	0.2052	9.9902	2.4536	12.4438	4.3252	2.2798	6.6050	0.0000	21,405.3675	21,405.3675	3.1585	2.0420	22,092.8498
2023	9.4110	91.7868	78.5796	0.1717	29.5725	4.1242	33.6967	14.2907	3.8203	18.1110	0.0000	16,848.5678	16,848.5678	4.1763	0.3401	17,054.3126
2024	28.4919	95.5646	74.1186	0.2106	34.3340	3.6758	38.0098	17.5385	3.4050	20.9435	0.0000	21,234.8406	21,234.8406	4.3598	1.0938	21,669.7887
2025	46.7740	75.9687	56.0598	0.2485	12.4453	1.9848	14.4301	4.9579	1.8473	6.8052	0.0000	26,171.0325	26,171.0325	3.5212	2.6381	27,045.2069
2026	46.7357	78.4915	72.1936	0.2446	20.4308	2.6629	23.0937	10.5694	2.4724	13.0417	0.0000	25,448.2372	25,448.2372	4.1082	2.1663	26,196.4958
2027	46.1542	105.8370	106.8077	0.2379	30.8717	4.3114	35.1831	14.5690	4.0024	18.5714	0.0000	23,321.3490	23,321.3490	5.6656	0.3870	23,578.3000
Maximum	46.7740	105.8370	106.8077	0.2485	34.3340	4.3114	38.0098	17.5385	4.0024	20.9435	0.0000	26,171.0325	26,171.0325	5.6656	2.6381	27,045.2069

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Energy	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Mobile	17.0092	17.0026	158.7347	0.3246	42.1730	0.2276	42.4007	11.2326	0.2123	11.4450		34,983.5733	34,983.5733	2.4971	1.5607	35,511.0783
Stationary	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890
Total	62.2509	84.2332	265.6354	0.8445	42.1730	7.8906	50.0637	11.2326	7.8754	19.1080		133,324.9592	133,324.9592	5.1579	1.6287	133,939.2564

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Energy	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Mobile	17.0092	17.0026	158.7347	0.3246	42.1730	0.2276	42.4007	11.2326	0.2123	11.4450		34,983.5733	34,983.5733	2.4971	1.5607	35,511.0783
Stationary	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890
Total	62.2509	84.2332	265.6354	0.8445	42.1730	7.8906	50.0637	11.2326	7.8754	19.1080		133,324.9592	133,324.9592	5.1579	1.6287	133,939.2564

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Utilities	Trenching	4/4/2022	12/19/2022	5	181	
2	Phase 1 Grading	Grading	5/14/2022	10/5/2022	5	100	
3	Phase 1 Building Construction	Building Construction	10/6/2022	12/5/2024	5	550	
4	Phase 1 Paving	Paving	4/28/2023	1/16/2024	5	181	

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Demo Existing	Demolition	8/31/2023	12/19/2023	5	76
6	Phase 1 Site Preparation	Site Preparation	12/18/2023	11/4/2024	5	226
7	Phase 1 Architectural Coating	Architectural Coating	5/15/2024	11/4/2024	5	121
8	Phase 2 Grading	Grading	7/8/2024	8/16/2024	5	30
9	Phase 2 Building Construction	Building Construction	8/17/2024	1/12/2026	5	354
10	Phase 3 Grading	Grading	2/11/2025	5/6/2025	5	61
11	Phase 3 Building Construction	Building Construction	5/7/2025	7/2/2027	5	548
12	Phase 2 Architectural Coating	Architectural Coating	10/24/2025	1/12/2026	5	53
13	Phase 3 Paving	Paving	2/23/2026	12/14/2026	5	212
14	Phase 4 Grading	Grading	4/9/2026	4/22/2026	5	10
15	Phase 4 Building Construction	Building Construction	4/23/2026	12/30/2027	5	428
16	Phase 3 Site Preparation	Site Preparation	9/17/2026	7/2/2027	5	202
17	Phase 4 Demo	Demolition	2/16/2027	3/22/2027	5	25
18	Building E Grading	Grading	2/16/2027	3/22/2027	5	25
19	Phase 3 Architectural Coating	Architectural Coating	3/15/2027	7/2/2027	5	79
20	Phase 4 Architectural Coating	Architectural Coating	6/26/2027	12/30/2027	5	129

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 25.5

Acres of Paving: 1.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,537; Non-Residential Outdoor: 63,590; Striped Parking Area: 65,352 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Utilities	Aerial Lifts	2	8.00	63	0.31
Phase 1 Utilities	Excavators	1	8.00	158	0.38
Phase 1 Utilities	Generator Sets	1	8.00	84	0.74
Phase 1 Grading	Crawler Tractors	2	8.00	212	0.43

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 1 Grading	Excavators	2	8.00	158	0.38
Phase 1 Grading	Graders	1	8.00	187	0.41
Phase 1 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1 Grading	Scrapers	2	8.00	367	0.48
Phase 1 Building Construction	Cranes	1	8.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 1 Paving	Rollers	2	8.00	80	0.38
Demo Existing	Concrete/Industrial Saws	1	8.00	81	0.73
Demo Existing	Excavators	3	8.00	158	0.38
Demo Existing	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1 Site Preparation	Rubber Tired Dozers	4	8.00	247	0.40
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 2 Grading	Excavators	2	8.00	158	0.38
Phase 2 Grading	Graders	1	8.00	187	0.41
Phase 2 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2 Grading	Scrapers	2	8.00	367	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2 Building Construction	Cranes	1	8.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Grading	Excavators	2	8.00	158	0.38

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 3 Grading	Graders	1	8.00	187	0.41
Phase 3 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 3 Grading	Scrapers	2	8.00	367	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Building Construction	Cranes	1	8.00	231	0.29
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 3 Paving	Pavers	2	8.00	130	0.42
Phase 3 Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Paving	Rollers	2	8.00	80	0.38
Phase 4 Grading	Excavators	2	8.00	158	0.38
Phase 4 Grading	Graders	1	8.00	187	0.41
Phase 4 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 4 Grading	Scrapers	2	8.00	367	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 4 Building Construction	Cranes	1	8.00	231	0.29
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 4 Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 4 Demo	Excavators	3	8.00	158	0.38
Phase 4 Demo	Rubber Tired Dozers	2	8.00	247	0.40
Building E Grading	Excavators	2	8.00	158	0.38

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building E Grading	Graders	1	8.00	187	0.41
Building E Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building E Grading	Scrapers	2	8.00	367	0.48
Building E Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 4 Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Utilities	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	8	20.00	0.00	18,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	9	107.00	42.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Existing	7	15.00	0.00	1,261.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	8	20.00	0.00	2,698.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	9	118.00	46.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	8	20.00	0.00	14,860.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	9	114.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	8	20.00	0.00	2,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	9	79.00	31.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Demo	6	15.00	0.00	315.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building E Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 3 Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451		1,448.2895	1,448.2895	0.2965		1,455.7022
Total	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451		1,448.2895	1,448.2895	0.2965		1,455.7022

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 1 Utilities - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0316	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491
Total	0.0316	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451	0.0000	1,448.2895	1,448.2895	0.2965		1,455.7022
Total	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451	0.0000	1,448.2895	1,448.2895	0.2965		1,455.7022

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 1 Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0316	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491
Total	0.0316	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5009	0.0000	6.5009	3.3710	0.0000	3.3710			0.0000			0.0000
Off-Road	4.2792	47.5079	29.1953	0.0715		1.9081	1.9081		1.7554	1.7554		6,926.9974	6,926.9974	2.2403		6,983.0056
Total	4.2792	47.5079	29.1953	0.0715	6.5009	1.9081	8.4090	3.3710	1.7554	5.1264		6,926.9974	6,926.9974	2.2403		6,983.0056

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 1 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8096	31.2432	7.4312	0.1164	3.2428	0.2906	3.5333	0.8889	0.2780	1.1668		12,813.9091	12,813.9091	0.6147	2.0356	13,435.8947
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0428	0.4917	1.4200e-003	0.1643	9.3000e-004	0.1652	0.0436	8.6000e-004	0.0444		144.1143	144.1143	4.6500e-003	4.2500e-003	145.4982
Total	0.8728	31.2860	7.9229	0.1178	3.4071	0.2915	3.6986	0.9324	0.2788	1.2113		12,958.0234	12,958.0234	0.6194	2.0399	13,581.3929

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5009	0.0000	6.5009	3.3710	0.0000	3.3710			0.0000			0.0000
Off-Road	4.2792	47.5079	29.1953	0.0715		1.9081	1.9081		1.7554	1.7554	0.0000	6,926.9974	6,926.9974	2.2403		6,983.0056
Total	4.2792	47.5079	29.1953	0.0715	6.5009	1.9081	8.4090	3.3710	1.7554	5.1264	0.0000	6,926.9974	6,926.9974	2.2403		6,983.0056

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 1 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8096	31.2432	7.4312	0.1164	3.2428	0.2906	3.5333	0.8889	0.2780	1.1668		12,813.9091	12,813.9091	0.6147	2.0356	13,435.8947
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0428	0.4917	1.4200e-003	0.1643	9.3000e-004	0.1652	0.0436	8.6000e-004	0.0444		144.1143	144.1143	4.6500e-003	4.2500e-003	145.4982
Total	0.8728	31.2860	7.9229	0.1178	3.4071	0.2915	3.6986	0.9324	0.2788	1.2113		12,958.0234	12,958.0234	0.6194	2.0399	13,581.3929

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0927	2.3179	0.7703	8.9600e-003	0.2845	0.0244	0.3088	0.0819	0.0233	0.1052		965.7631	965.7631	0.0292	0.1403	1,008.3054
Worker	0.3379	0.2287	2.6305	7.5800e-003	0.8790	4.9800e-003	0.8840	0.2332	4.5800e-003	0.2377		771.0117	771.0117	0.0249	0.0228	778.4156
Total	0.4306	2.5466	3.4007	0.0165	1.1634	0.0293	1.1928	0.3150	0.0279	0.3429		1,736.7748	1,736.7748	0.0541	0.1631	1,786.7210

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0927	2.3179	0.7703	8.9600e-003	0.2845	0.0244	0.3088	0.0819	0.0233	0.1052		965.7631	965.7631	0.0292	0.1403	1,008.3054
Worker	0.3379	0.2287	2.6305	7.5800e-003	0.8790	4.9800e-003	0.8840	0.2332	4.5800e-003	0.2377		771.0117	771.0117	0.0249	0.0228	778.4156
Total	0.4306	2.5466	3.4007	0.0165	1.1634	0.0293	1.1928	0.3150	0.0279	0.3429		1,736.7748	1,736.7748	0.0541	0.1631	1,786.7210

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.1535	2,738.1535	0.6670		2,754.8288
Total	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.1535	2,738.1535	0.6670		2,754.8288

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0488	1.8762	0.6684	8.6100e-003	0.2845	0.0110	0.2955	0.0819	0.0105	0.0924		929.7171	929.7171	0.0280	0.1347	970.5694
Worker	0.3173	0.2044	2.4467	7.3400e-003	0.8790	4.7300e-003	0.8837	0.2332	4.3500e-003	0.2375		751.1617	751.1617	0.0227	0.0212	758.0353
Total	0.3661	2.0806	3.1151	0.0160	1.1634	0.0158	1.1792	0.3150	0.0149	0.3299		1,680.8788	1,680.8788	0.0507	0.1559	1,728.6048

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.1535	2,738.1535	0.6670		2,754.8288
Total	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.1535	2,738.1535	0.6670		2,754.8288

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0488	1.8762	0.6684	8.6100e-003	0.2845	0.0110	0.2955	0.0819	0.0105	0.0924		929.7171	929.7171	0.0280	0.1347	970.5694
Worker	0.3173	0.2044	2.4467	7.3400e-003	0.8790	4.7300e-003	0.8837	0.2332	4.3500e-003	0.2375		751.1617	751.1617	0.0227	0.0212	758.0353
Total	0.3661	2.0806	3.1151	0.0160	1.1634	0.0158	1.1792	0.3150	0.0149	0.3299		1,680.8788	1,680.8788	0.0507	0.1559	1,728.6048

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0468	1.8636	0.6532	8.4500e-003	0.2845	0.0111	0.2955	0.0819	0.0106	0.0925		913.5449	913.5449	0.0286	0.1324	953.7101
Worker	0.2988	0.1838	2.2909	7.1000e-003	0.8790	4.5100e-003	0.8835	0.2332	4.1500e-003	0.2373		732.3517	732.3517	0.0207	0.0198	738.7612
Total	0.3456	2.0474	2.9441	0.0156	1.1634	0.0156	1.1790	0.3150	0.0147	0.3298		1,645.8965	1,645.8965	0.0493	0.1522	1,692.4713

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0468	1.8636	0.6532	8.4500e-003	0.2845	0.0111	0.2955	0.0819	0.0106	0.0925		913.5449	913.5449	0.0286	0.1324	953.7101
Worker	0.2988	0.1838	2.2909	7.1000e-003	0.8790	4.5100e-003	0.8835	0.2332	4.1500e-003	0.2373		732.3517	732.3517	0.0207	0.0198	738.7612
Total	0.3456	2.0474	2.9441	0.0156	1.1634	0.0156	1.1790	0.3150	0.0147	0.3298		1,645.8965	1,645.8965	0.0493	0.1522	1,692.4713

3.5 Phase 1 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0474	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666
Total	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0474	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666
Total	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666

3.5 Phase 1 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0028	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647
Total	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0028	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647
Total	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647

3.6 Demo Existing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6362	0.0000	3.6362	0.5507	0.0000	0.5507			0.0000			0.0000
Off-Road	2.9538	28.6116	22.7497	0.0474		1.3185	1.3185		1.2232	1.2232		4,573.9847	4,573.9847	1.3168		4,606.9057
Total	2.9538	28.6116	22.7497	0.0474	3.6362	1.3185	4.9547	0.5507	1.2232	1.7739		4,573.9847	4,573.9847	1.3168		4,606.9057

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0353	2.2580	0.6037	9.9400e-003	0.2902	0.0185	0.3087	0.0795	0.0177	0.0972		1,098.2645	1,098.2645	0.0552	0.1747	1,151.6921
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666
Total	0.0798	2.2867	0.9467	0.0110	0.4134	0.0191	0.4325	0.1122	0.0183	0.1305		1,203.5676	1,203.5676	0.0583	0.1776	1,257.9587

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6362	0.0000	3.6362	0.5507	0.0000	0.5507			0.0000			0.0000
Off-Road	2.9538	28.6116	22.7497	0.0474		1.3185	1.3185		1.2232	1.2232	0.0000	4,573.9847	4,573.9847	1.3168		4,606.9057
Total	2.9538	28.6116	22.7497	0.0474	3.6362	1.3185	4.9547	0.5507	1.2232	1.7739	0.0000	4,573.9847	4,573.9847	1.3168		4,606.9057

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0353	2.2580	0.6037	9.9400e-003	0.2902	0.0185	0.3087	0.0795	0.0177	0.0972		1,098.2645	1,098.2645	0.0552	0.1747	1,151.6921
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666
Total	0.0798	2.2867	0.9467	0.0110	0.4134	0.0191	0.4325	0.1122	0.0183	0.1305		1,203.5676	1,203.5676	0.0583	0.1776	1,257.9587

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.1928	33.1156	19.1194	0.0435		1.5111	1.5111		1.3902	1.3902		4,212.7323	4,212.7323	1.3625		4,246.7944
Total	3.1928	33.1156	19.1194	0.0435	24.0883	1.5111	25.5995	13.2409	1.3902	14.6312		4,212.7323	4,212.7323	1.3625		4,246.7944

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200
Total	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.1928	33.1156	19.1194	0.0435		1.5111	1.5111		1.3902	1.3902	0.0000	4,212.7323	4,212.7323	1.3625		4,246.7944
Total	3.1928	33.1156	19.1194	0.0435	24.0883	1.5111	25.5995	13.2409	1.3902	14.6312	0.0000	4,212.7323	4,212.7323	1.3625		4,246.7944

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200
Total	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.2120	32.8554	19.2311	0.0435		1.4841	1.4841		1.3653	1.3653		4,213.224 2	4,213.224 2	1.3626		4,247.290 3
Total	3.2120	32.8554	19.2311	0.0435	24.0883	1.4841	25.5724	13.2409	1.3653	14.6062		4,213.224 2	4,213.224 2	1.3626		4,247.290 3

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0309	0.3854	1.1900e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		123.1993	123.1993	3.4800e-003	3.3300e-003	124.2776
Total	0.0503	0.0309	0.3854	1.1900e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		123.1993	123.1993	3.4800e-003	3.3300e-003	124.2776

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.2120	32.8554	19.2311	0.0435		1.4841	1.4841		1.3653	1.3653	0.0000	4,213.224 2	4,213.224 2	1.3626		4,247.290 3
Total	3.2120	32.8554	19.2311	0.0435	24.0883	1.4841	25.5724	13.2409	1.3653	14.6062	0.0000	4,213.224 2	4,213.224 2	1.3626		4,247.290 3

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0309	0.3854	1.1900e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		123.1993	123.1993	3.4800e-003	3.3300e-003	124.2776
Total	0.0503	0.0309	0.3854	1.1900e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		123.1993	123.1993	3.4800e-003	3.3300e-003	124.2776

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.5543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	19.7953	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0361	0.4496	1.3900e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		143.7326	143.7326	4.0600e-003	3.8800e-003	144.9905
Total	0.0586	0.0361	0.4496	1.3900e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		143.7326	143.7326	4.0600e-003	3.8800e-003	144.9905

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.5543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	19.7953	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Phase 1 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0361	0.4496	1.3900e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		143.7326	143.7326	4.0600e-003	3.8800e-003	144.9905
Total	0.0586	0.0361	0.4496	1.3900e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		143.7326	143.7326	4.0600e-003	3.8800e-003	144.9905

3.9 Phase 2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0246	0.0000	7.0246	3.4229	0.0000	3.4229			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	7.0246	1.3354	8.3600	3.4229	1.2286	4.6514		6,009.7487	6,009.7487	1.9437		6,058.3405

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Phase 2 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1891	12.1335	3.3169	0.0528	1.5730	0.1006	1.6736	0.4312	0.0963	0.5274		5,848.1747	5,848.1747	0.3081	0.9307	6,133.2391
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0344	0.4282	1.3300e-003	0.1643	8.4000e-004	0.1651	0.0436	7.8000e-004	0.0444		136.8882	136.8882	3.8600e-003	3.7000e-003	138.0862
Total	0.2449	12.1679	3.7451	0.0541	1.7373	0.1015	1.8388	0.4747	0.0970	0.5718		5,985.0629	5,985.0629	0.3120	0.9344	6,271.3253

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0246	0.0000	7.0246	3.4229	0.0000	3.4229			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	7.0246	1.3354	8.3600	3.4229	1.2286	4.6514	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Phase 2 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1891	12.1335	3.3169	0.0528	1.5730	0.1006	1.6736	0.4312	0.0963	0.5274		5,848.1747	5,848.1747	0.3081	0.9307	6,133.2391
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0344	0.4282	1.3300e-003	0.1643	8.4000e-004	0.1651	0.0436	7.8000e-004	0.0444		136.8882	136.8882	3.8600e-003	3.7000e-003	138.0862
Total	0.2449	12.1679	3.7451	0.0541	1.7373	0.1015	1.8388	0.4747	0.0970	0.5718		5,985.0629	5,985.0629	0.3120	0.9344	6,271.3253

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0513	2.0411	0.7154	9.2600e-003	0.3116	0.0121	0.3237	0.0897	0.0116	0.1013		1,000.549 2	1,000.549 2	0.0314	0.1450	1,044.539 6
Worker	0.3295	0.2027	2.5264	7.8300e-003	0.9693	4.9700e-003	0.9743	0.2571	4.5800e-003	0.2617		807.6401	807.6401	0.0228	0.0218	814.7086
Total	0.3808	2.2438	3.2418	0.0171	1.2809	0.0171	1.2980	0.3468	0.0162	0.3630		1,808.189 3	1,808.189 3	0.0542	0.1668	1,859.248 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.712 3	2,738.712 3	0.6635		2,755.300 9
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.712 3	2,738.712 3	0.6635		2,755.300 9

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0513	2.0411	0.7154	9.2600e-003	0.3116	0.0121	0.3237	0.0897	0.0116	0.1013		1,000.5492	1,000.5492	0.0314	0.1450	1,044.5396
Worker	0.3295	0.2027	2.5264	7.8300e-003	0.9693	4.9700e-003	0.9743	0.2571	4.5800e-003	0.2617		807.6401	807.6401	0.0228	0.0218	814.7086
Total	0.3808	2.2438	3.2418	0.0171	1.2809	0.0171	1.2980	0.3468	0.0162	0.3630		1,808.1893	1,808.1893	0.0542	0.1668	1,859.2483

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0496	2.0212	0.7036	9.0700e-003	0.3116	0.0121	0.3236	0.0897	0.0116	0.1013		981.4965	981.4965	0.0322	0.1422	1,024.6610
Worker	0.3112	0.1836	2.3737	7.5600e-003	0.9693	4.7600e-003	0.9741	0.2571	4.3800e-003	0.2615		787.9274	787.9274	0.0208	0.0205	794.5467
Total	0.3607	2.2048	3.0772	0.0166	1.2809	0.0169	1.2977	0.3468	0.0159	0.3628		1,769.4240	1,769.4240	0.0530	0.1626	1,819.2078

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0496	2.0212	0.7036	9.0700e-003	0.3116	0.0121	0.3236	0.0897	0.0116	0.1013		981.4965	981.4965	0.0322	0.1422	1,024.6610
Worker	0.3112	0.1836	2.3737	7.5600e-003	0.9693	4.7600e-003	0.9741	0.2571	4.3800e-003	0.2615		787.9274	787.9274	0.0208	0.0205	794.5467
Total	0.3607	2.2048	3.0772	0.0166	1.2809	0.0169	1.2977	0.3468	0.0159	0.3628		1,769.4240	1,769.4240	0.0530	0.1626	1,819.2078

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0481	1.9998	0.6950	8.8800e-003	0.3116	0.0120	0.3235	0.0897	0.0115	0.1012		962.7764	962.7764	0.0330	0.1394	1,005.1342
Worker	0.2948	0.1676	2.2426	7.3300e-003	0.9693	4.5300e-003	0.9739	0.2571	4.1700e-003	0.2613		769.5687	769.5687	0.0191	0.0194	775.8103
Total	0.3429	2.1674	2.9375	0.0162	1.2809	0.0165	1.2974	0.3468	0.0156	0.3625		1,732.3452	1,732.3452	0.0520	0.1587	1,780.9445

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0481	1.9998	0.6950	8.8800e-003	0.3116	0.0120	0.3235	0.0897	0.0115	0.1012		962.7764	962.7764	0.0330	0.1394	1,005.1342
Worker	0.2948	0.1676	2.2426	7.3300e-003	0.9693	4.5300e-003	0.9739	0.2571	4.1700e-003	0.2613		769.5687	769.5687	0.0191	0.0194	775.8103
Total	0.3429	2.1674	2.9375	0.0162	1.2809	0.0165	1.2974	0.3468	0.0156	0.3625		1,732.3452	1,732.3452	0.0520	0.1587	1,780.9445

3.11 Phase 3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7393	0.0000	6.7393	3.3996	0.0000	3.3996			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.7393	1.1309	7.8701	3.3996	1.0404	4.4400		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 Phase 3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5059	32.4235	9.1113	0.1397	4.2609	0.2715	4.5324	1.1679	0.2598	1.4277		15,520.18 15	15,520.18 15	0.8613	2.4720	16,278.36 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0527	0.0311	0.4023	1.2800e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		133.5470	133.5470	3.5300e-003	3.4700e-003	134.6689
Total	0.5586	32.4546	9.5136	0.1410	4.4252	0.2723	4.6975	1.2115	0.2605	1.4720		15,653.72 86	15,653.72 86	0.8648	2.4755	16,413.03 47

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7393	0.0000	6.7393	3.3996	0.0000	3.3996			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.7393	1.1309	7.8701	3.3996	1.0404	4.4400	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 Phase 3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5059	32.4235	9.1113	0.1397	4.2609	0.2715	4.5324	1.1679	0.2598	1.4277		15,520.18 15	15,520.18 15	0.8613	2.4720	16,278.36 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0527	0.0311	0.4023	1.2800e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		133.5470	133.5470	3.5300e-003	3.4700e-003	134.6689
Total	0.5586	32.4546	9.5136	0.1410	4.4252	0.2723	4.6975	1.2115	0.2605	1.4720		15,653.72 86	15,653.72 86	0.8648	2.4755	16,413.03 47

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.598 6	2,739.598 6	0.6602		2,756.103 0
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.598 6	2,739.598 6	0.6602		2,756.103 0

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0474	1.9334	0.6730	8.6700e-003	0.2980	0.0116	0.3096	0.0858	0.0111	0.0969		938.8228	938.8228	0.0308	0.1360	980.1106
Worker	0.3006	0.1774	2.2932	7.3100e-003	0.9365	4.6000e-003	0.9411	0.2484	4.2300e-003	0.2526		761.2180	761.2180	0.0201	0.0198	767.6130
Total	0.3480	2.1107	2.9662	0.0160	1.2345	0.0162	1.2506	0.3342	0.0153	0.3495		1,700.0408	1,700.0408	0.0509	0.1557	1,747.7235

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0474	1.9334	0.6730	8.6700e-003	0.2980	0.0116	0.3096	0.0858	0.0111	0.0969		938.8228	938.8228	0.0308	0.1360	980.1106
Worker	0.3006	0.1774	2.2932	7.3100e-003	0.9365	4.6000e-003	0.9411	0.2484	4.2300e-003	0.2526		761.2180	761.2180	0.0201	0.0198	767.6130
Total	0.3480	2.1107	2.9662	0.0160	1.2345	0.0162	1.2506	0.3342	0.0153	0.3495		1,700.0408	1,700.0408	0.0509	0.1557	1,747.7235

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0460	1.9129	0.6648	8.4900e-003	0.2980	0.0115	0.3095	0.0858	0.0110	0.0968		920.9166	920.9166	0.0315	0.1333	961.4327
Worker	0.2848	0.1619	2.1665	7.0800e-003	0.9365	4.3800e-003	0.9409	0.2484	4.0300e-003	0.2524		743.4817	743.4817	0.0184	0.0187	749.5117
Total	0.3309	2.0748	2.8313	0.0156	1.2345	0.0159	1.2503	0.3342	0.0150	0.3492		1,664.3983	1,664.3983	0.0500	0.1520	1,710.9444

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0460	1.9129	0.6648	8.4900e-003	0.2980	0.0115	0.3095	0.0858	0.0110	0.0968		920.9166	920.9166	0.0315	0.1333	961.4327
Worker	0.2848	0.1619	2.1665	7.0800e-003	0.9365	4.3800e-003	0.9409	0.2484	4.0300e-003	0.2524		743.4817	743.4817	0.0184	0.0187	749.5117
Total	0.3309	2.0748	2.8313	0.0156	1.2345	0.0159	1.2503	0.3342	0.0150	0.3492		1,664.3983	1,664.3983	0.0500	0.1520	1,710.9444

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0449	1.8927	0.6581	8.3100e-003	0.2980	0.0114	0.3094	0.0858	0.0109	0.0967		901.8921	901.8921	0.0322	0.1305	941.5973
Worker	0.2699	0.1487	2.0573	6.8700e-003	0.9365	4.1300e-003	0.9406	0.2484	3.8000e-003	0.2522		727.4242	727.4242	0.0169	0.0178	733.1428
Total	0.3148	2.0415	2.7154	0.0152	1.2345	0.0155	1.2500	0.3342	0.0147	0.3489		1,629.3164	1,629.3164	0.0492	0.1483	1,674.7401

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0449	1.8927	0.6581	8.3100e-003	0.2980	0.0114	0.3094	0.0858	0.0109	0.0967		901.8921	901.8921	0.0322	0.1305	941.5973
Worker	0.2699	0.1487	2.0573	6.8700e-003	0.9365	4.1300e-003	0.9406	0.2484	3.8000e-003	0.2522		727.4242	727.4242	0.0169	0.0178	733.1428
Total	0.3148	2.0415	2.7154	0.0152	1.2345	0.0155	1.2500	0.3342	0.0147	0.3489		1,629.3164	1,629.3164	0.0492	0.1483	1,674.7401

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0633	0.0373	0.4828	1.5400e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		160.2564	160.2564	4.2300e-003	4.1600e-003	161.6027
Total	0.0633	0.0373	0.4828	1.5400e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		160.2564	160.2564	4.2300e-003	4.1600e-003	161.6027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0633	0.0373	0.4828	1.5400e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		160.2564	160.2564	4.2300e-003	4.1600e-003	161.6027
Total	0.0633	0.0373	0.4828	1.5400e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		160.2564	160.2564	4.2300e-003	4.1600e-003	161.6027

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0600	0.0341	0.4561	1.4900e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		156.5225	156.5225	3.8800e-003	3.9300e-003	157.7919
Total	0.0600	0.0341	0.4561	1.4900e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		156.5225	156.5225	3.8800e-003	3.9300e-003	157.7919

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0600	0.0341	0.4561	1.4900e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		156.5225	156.5225	3.8800e-003	3.9300e-003	157.7919
Total	0.0600	0.0341	0.4561	1.4900e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		156.5225	156.5225	3.8800e-003	3.9300e-003	157.7919

3.14 Phase 3 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9276	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0213	0.2851	9.3000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		97.8265	97.8265	2.4200e-003	2.4600e-003	98.6200
Total	0.0375	0.0213	0.2851	9.3000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		97.8265	97.8265	2.4200e-003	2.4600e-003	98.6200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9276	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0213	0.2851	9.3000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		97.8265	97.8265	2.4200e-003	2.4600e-003	98.6200
Total	0.0375	0.0213	0.2851	9.3000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		97.8265	97.8265	2.4200e-003	2.4600e-003	98.6200

3.15 Phase 4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9534	0.0000	8.9534	3.6366	0.0000	3.6366			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	8.9534	1.1309	10.0843	3.6366	1.0404	4.6770		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4139	26.4761	7.6537	0.1131	3.5332	0.2230	3.7562	0.9685	0.2134	1.1819		12,600.9518	12,600.9518	0.7355	2.0086	13,217.8860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0500	0.0284	0.3801	1.2400e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		130.4354	130.4354	3.2300e-003	3.2800e-003	131.4933
Total	0.4639	26.5045	8.0338	0.1143	3.6975	0.2238	3.9213	1.0121	0.2141	1.2261		12,731.3872	12,731.3872	0.7387	2.0118	13,349.3793

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9534	0.0000	8.9534	3.6366	0.0000	3.6366			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	8.9534	1.1309	10.0843	3.6366	1.0404	4.6770	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4139	26.4761	7.6537	0.1131	3.5332	0.2230	3.7562	0.9685	0.2134	1.1819		12,600.9518	12,600.9518	0.7355	2.0086	13,217.8860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0500	0.0284	0.3801	1.2400e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		130.4354	130.4354	3.2300e-003	3.2800e-003	131.4933
Total	0.4639	26.5045	8.0338	0.1143	3.6975	0.2238	3.9213	1.0121	0.2141	1.2261		12,731.3872	12,731.3872	0.7387	2.0118	13,349.3793

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0324	1.3477	0.4684	5.9800e-003	0.2100	8.0800e-003	0.2180	0.0604	7.7300e-003	0.0682		648.8276	648.8276	0.0222	0.0939	677.3731
Worker	0.1974	0.1122	1.5014	4.9100e-003	0.6490	3.0300e-003	0.6520	0.1721	2.7900e-003	0.1749		515.2198	515.2198	0.0128	0.0130	519.3984
Total	0.2298	1.4599	1.9697	0.0109	0.8589	0.0111	0.8700	0.2326	0.0105	0.2431		1,164.0474	1,164.0474	0.0350	0.1069	1,196.7715

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0324	1.3477	0.4684	5.9800e-003	0.2100	8.0800e-003	0.2180	0.0604	7.7300e-003	0.0682		648.8276	648.8276	0.0222	0.0939	677.3731
Worker	0.1974	0.1122	1.5014	4.9100e-003	0.6490	3.0300e-003	0.6520	0.1721	2.7900e-003	0.1749		515.2198	515.2198	0.0128	0.0130	519.3984
Total	0.2298	1.4599	1.9697	0.0109	0.8589	0.0111	0.8700	0.2326	0.0105	0.2431		1,164.0474	1,164.0474	0.0350	0.1069	1,196.7715

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0316	1.3335	0.4637	5.8500e-003	0.2100	8.0100e-003	0.2180	0.0604	7.6600e-003	0.0681		635.4240	635.4240	0.0227	0.0920	663.3981
Worker	0.1871	0.1031	1.4257	4.7600e-003	0.6490	2.8600e-003	0.6518	0.1721	2.6300e-003	0.1748		504.0922	504.0922	0.0117	0.0123	508.0551
Total	0.2187	1.4366	1.8893	0.0106	0.8589	0.0109	0.8698	0.2326	0.0103	0.2429		1,139.5162	1,139.5162	0.0345	0.1043	1,171.4532

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0316	1.3335	0.4637	5.8500e-003	0.2100	8.0100e-003	0.2180	0.0604	7.6600e-003	0.0681		635.4240	635.4240	0.0227	0.0920	663.3981
Worker	0.1871	0.1031	1.4257	4.7600e-003	0.6490	2.8600e-003	0.6518	0.1721	2.6300e-003	0.1748		504.0922	504.0922	0.0117	0.0123	508.0551
Total	0.2187	1.4366	1.8893	0.0106	0.8589	0.0109	0.8698	0.2326	0.0103	0.2429		1,139.5162	1,139.5162	0.0345	0.1043	1,171.4532

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0450	0.0256	0.3421	1.1200e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		117.3918	117.3918	2.9100e-003	2.9500e-003	118.3439
Total	0.0450	0.0256	0.3421	1.1200e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		117.3918	117.3918	2.9100e-003	2.9500e-003	118.3439

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0450	0.0256	0.3421	1.1200e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		117.3918	117.3918	2.9100e-003	2.9500e-003	118.3439
Total	0.0450	0.0256	0.3421	1.1200e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		117.3918	117.3918	2.9100e-003	2.9500e-003	118.3439

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0426	0.0235	0.3248	1.0900e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		114.8565	114.8565	2.6700e-003	2.8100e-003	115.7594
Total	0.0426	0.0235	0.3248	1.0900e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		114.8565	114.8565	2.6700e-003	2.8100e-003	115.7594

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0426	0.0235	0.3248	1.0900e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		114.8565	114.8565	2.6700e-003	2.8100e-003	115.7594
Total	0.0426	0.0235	0.3248	1.0900e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		114.8565	114.8565	2.6700e-003	2.8100e-003	115.7594

3.18 Phase 4 Demo - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7635	0.0000	2.7635	0.4185	0.0000	0.4185			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	2.7635	0.8528	3.6163	0.4185	0.7920	1.2105		3,747.5996	3,747.5996	1.0464		3,773.7606

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.6265	0.4824	6.8800e-003	0.2204	0.0138	0.2342	0.0604	0.0132	0.0736		768.1210	768.1210	0.0471	0.1225	805.8091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0355	0.0196	0.2707	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		95.7137	95.7137	2.2300e-003	2.3400e-003	96.4662
Total	0.0611	1.6460	0.7531	7.7800e-003	0.3436	0.0143	0.3579	0.0931	0.0137	0.1068		863.8347	863.8347	0.0493	0.1249	902.2752

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7635	0.0000	2.7635	0.4185	0.0000	0.4185			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	2.7635	0.8528	3.6163	0.4185	0.7920	1.2105	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.6265	0.4824	6.8800e-003	0.2204	0.0138	0.2342	0.0604	0.0132	0.0736		768.1210	768.1210	0.0471	0.1225	805.8091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0355	0.0196	0.2707	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		95.7137	95.7137	2.2300e-003	2.3400e-003	96.4662
Total	0.0611	1.6460	0.7531	7.7800e-003	0.3436	0.0143	0.3579	0.0931	0.0137	0.1068		863.8347	863.8347	0.0493	0.1249	902.2752

3.19 Building E Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1038	0.0000	7.1038	3.4270	0.0000	3.4270			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	7.1038	1.1309	8.2347	3.4270	1.0404	4.4675		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0474	0.0261	0.3609	1.2100e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		127.6183	127.6183	2.9700e-003	3.1200e-003	128.6215
Total	0.0474	0.0261	0.3609	1.2100e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		127.6183	127.6183	2.9700e-003	3.1200e-003	128.6215

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1038	0.0000	7.1038	3.4270	0.0000	3.4270			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	7.1038	1.1309	8.2347	3.4270	1.0404	4.4675	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0474	0.0261	0.3609	1.2100e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		127.6183	127.6183	2.9700e-003	3.1200e-003	128.6215
Total	0.0474	0.0261	0.3609	1.2100e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		127.6183	127.6183	2.9700e-003	3.1200e-003	128.6215

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	28.0455	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0545	0.0300	0.4151	1.3900e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		146.7610	146.7610	3.4200e-003	3.5800e-003	147.9148
Total	0.0545	0.0300	0.4151	1.3900e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		146.7610	146.7610	3.4200e-003	3.5800e-003	147.9148

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	28.0455	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0545	0.0300	0.4151	1.3900e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		146.7610	146.7610	3.4200e-003	3.5800e-003	147.9148
Total	0.0545	0.0300	0.4151	1.3900e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		146.7610	146.7610	3.4200e-003	3.5800e-003	147.9148

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	12.0555	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0379	0.0209	0.2887	9.6000e-004	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		102.0946	102.0946	2.3800e-003	2.4900e-003	102.8972
Total	0.0379	0.0209	0.2887	9.6000e-004	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		102.0946	102.0946	2.3800e-003	2.4900e-003	102.8972

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	12.0555	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0379	0.0209	0.2887	9.6000e-004	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		102.0946	102.0946	2.3800e-003	2.4900e-003	102.8972
Total	0.0379	0.0209	0.2887	9.6000e-004	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		102.0946	102.0946	2.3800e-003	2.4900e-003	102.8972

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.0092	17.0026	158.7347	0.3246	42.1730	0.2276	42.4007	11.2326	0.2123	11.4450		34,983.5733	34,983.5733	2.4971	1.5607	35,511.0783
Unmitigated	17.0092	17.0026	158.7347	0.3246	42.1730	0.2276	42.4007	11.2326	0.2123	11.4450		34,983.5733	34,983.5733	2.4971	1.5607	35,511.0783

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking Structure	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Research & Development	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707
Total	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking Structure	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
Parking Lot	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Research & Development	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
NaturalGas Unmitigated	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	31542.4	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Total		0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	31.5424	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Total		0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

6.0 Area Detail

6.1 Mitigation Measures Area

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Unmitigated	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.5529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Total	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.5529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Total	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	0.5	100	2346	0.73	Diesel
Emergency Generator	2	0.5	100	2923	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	150	27000	15	CNG
Boiler	3	150	27000	16	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Boiler - CNG (5 - 75 MMBTU)	4.0442	8.2501	72.0601	0.4412		5.5883	5.5883		5.5883	5.5883		88,236.8017	88,236.8017	1.6912		88,279.0818
Emergency Generator - Diesel (750 - 9999 HP)	12.4967	55.8846	31.8640	0.0601		1.8383	1.8383		1.8383	1.8383		6,392.9000	6,392.9000	0.8963		6,415.3072
Total	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890

11.0 Vegetation

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APPENDIX 3.2:

EXISTING LAND USES CALEEMOD EMISSIONS MODEL OUTPUTS

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Towne Centre Existing
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	192.37	1000sqft	4.42	192,365.00	0
Enclosed Parking with Elevator	420.00	Space	3.78	168,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	400.81	CH4 Intensity (lb/MWhr)	0.017	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS 2028

Land Use -

Construction Phase - No Construction

Off-road Equipment - No Construction

Trips and VMT - No Construction

On-road Fugitive Dust - No Construction

Architectural Coating - No Construction

Vehicle Trips - Based on Project trip gen

Area Coating - rule 67.0.1

Energy Use -

Solid Waste - same as project

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	96,183.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	288,548.00	0.00
tblArchitecturalCoating	ConstArea_Parking	10,080.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_Nonresidential_Exterior	96183	100000
tblAreaCoating	Area_Nonresidential_Interior	288548	300000
tblAreaCoating	Area_Parking	10080	13008
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	3/16/2021	2/16/2021
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.017
tblProjectCharacteristics	CO2IntensityFactor	539.98	400.81
tblSolidWaste	SolidWasteGenerationRate	14.62	11.40
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	26.00	0.00
tblVehicleTrips	ST_TR	1.90	1.80
tblVehicleTrips	SU_TR	1.11	1.01
tblVehicleTrips	WD_TR	11.26	8.00

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Energy	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	956.9890	956.9890	0.0325	0.0125	961.5137
Mobile	0.5793	0.6443	5.2557	0.0107	1.1030	8.5100e-003	1.1115	0.2944	7.9300e-003	0.3023	0.0000	989.8331	989.8331	0.0741	0.0467	1,005.5873
Waste						0.0000	0.0000		0.0000	0.0000	2.3141	0.0000	2.3141	0.1368	0.0000	5.7331
Water						0.0000	0.0000		0.0000	0.0000	30.0081	223.9138	253.9219	3.0916	0.0750	353.5655
Total	1.4728	0.9639	5.5297	0.0126	1.1030	0.0328	1.1358	0.2944	0.0322	0.3266	32.3222	2,170.7469	2,203.0691	3.3350	0.1341	2,326.4113

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Energy	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	956.9890	956.9890	0.0325	0.0125	961.5137
Mobile	0.5793	0.6443	5.2557	0.0107	1.1030	8.5100e-003	1.1115	0.2944	7.9300e-003	0.3023	0.0000	989.8331	989.8331	0.0741	0.0467	1,005.5873
Waste						0.0000	0.0000		0.0000	0.0000	2.3141	0.0000	2.3141	0.1368	0.0000	5.7331
Water						0.0000	0.0000		0.0000	0.0000	30.0081	223.9138	253.9219	3.0916	0.0750	353.5655
Total	1.4728	0.9639	5.5297	0.0126	1.1030	0.0328	1.1358	0.2944	0.0322	0.3266	32.3222	2,170.7469	2,203.0691	3.3350	0.1341	2,326.4113

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	2/17/2021	2/16/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Architectural Coating - 2021

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5793	0.6443	5.2557	0.0107	1.1030	8.5100e-003	1.1115	0.2944	7.9300e-003	0.3023	0.0000	989.8331	989.8331	0.0741	0.0467	1,005.5873
Unmitigated	0.5793	0.6443	5.2557	0.0107	1.1030	8.5100e-003	1.1115	0.2944	7.9300e-003	0.3023	0.0000	989.8331	989.8331	0.0741	0.0467	1,005.5873

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Research & Development	1,538.96	346.27	194.29	2,948,550	2,948,550
Total	1,538.96	346.27	194.29	2,948,550	2,948,550

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
Research & Development	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

5.0 Energy Detail

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	609.0970	609.0970	0.0258	6.0800e-003	611.5543
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	609.0970	609.0970	0.0258	6.0800e-003	611.5543
NaturalGas Mitigated	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594
NaturalGas Unmitigated	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	6.51925e+006	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594
Total		0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	6.51925e+006	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594
Total		0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.13232e+006	205.8607	8.7300e-003	2.0500e-003	206.6912
Research & Development	2.21797e+006	403.2363	0.0171	4.0200e-003	404.8631
Total		609.0970	0.0258	6.0700e-003	611.5543

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.13232e+006	205.8607	8.7300e-003	2.0500e-003	206.6912
Research & Development	2.21797e+006	403.2363	0.0171	4.0200e-003	404.8631
Total		609.0970	0.0258	6.0700e-003	611.5543

6.0 Area Detail

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Unmitigated	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0957					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7621					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2000e-004	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Total	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0957					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7621					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2000e-004	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Total	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117

7.0 Water Detail

7.1 Mitigation Measures Water

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	253.9219	3.0916	0.0750	353.5655
Unmitigated	253.9219	3.0916	0.0750	353.5655

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	94.5872 / 0	253.9219	3.0916	0.0750	353.5655
Total		253.9219	3.0916	0.0750	353.5655

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	94.5872 / 0	253.9219	3.0916	0.0750	353.5655
Total		253.9219	3.0916	0.0750	353.5655

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.3141	0.1368	0.0000	5.7331
Unmitigated	2.3141	0.1368	0.0000	5.7331

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Research & Development	11.4	2.3141	0.1368	0.0000	5.7331
Total		2.3141	0.1368	0.0000	5.7331

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Research & Development	11.4	2.3141	0.1368	0.0000	5.7331
Total		2.3141	0.1368	0.0000	5.7331

9.0 Operational Offroad

Towne Centre Existing - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Towne Centre Existing
San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	192.37	1000sqft	4.42	192,365.00	0
Enclosed Parking with Elevator	420.00	Space	3.78	168,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	400.81	CH4 Intensity (lb/MWhr)	0.017	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - RPS 2028
- Land Use -
- Construction Phase - No Construction
- Off-road Equipment - No Construction
- Trips and VMT - No Construction
- On-road Fugitive Dust - No Construction
- Architectural Coating - No Construction
- Vehicle Trips - Based on Project trip gen
- Area Coating - rule 67.0.1
- Energy Use -
- Solid Waste - same as project

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	96,183.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	288,548.00	0.00
tblArchitecturalCoating	ConstArea_Parking	10,080.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_Nonresidential_Exterior	96183	100000
tblAreaCoating	Area_Nonresidential_Interior	288548	300000
tblAreaCoating	Area_Parking	10080	13008
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	3/16/2021	2/16/2021
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.017
tblProjectCharacteristics	CO2IntensityFactor	539.98	400.81
tblSolidWaste	SolidWasteGenerationRate	14.62	11.40
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	26.00	0.00
tblVehicleTrips	ST_TR	1.90	1.80
tblVehicleTrips	SU_TR	1.11	1.01
tblVehicleTrips	WD_TR	11.26	8.00

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Energy	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762
Mobile	4.3512	4.3189	37.4958	0.0801	8.1195	0.0612	8.1807	2.1629	0.0571	2.2200		8,152.1134	8,152.1134	0.5631	0.3540	8,271.6688
Total	9.2502	6.0706	39.0292	0.0906	8.1195	0.1945	8.3140	2.1629	0.1904	2.3533		10,253.5367	10,253.5367	0.6037	0.3925	10,385.5877

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Energy	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762
Mobile	4.3512	4.3189	37.4958	0.0801	8.1195	0.0612	8.1807	2.1629	0.0571	2.2200		8,152.1134	8,152.1134	0.5631	0.3540	8,271.6688
Total	9.2502	6.0706	39.0292	0.0906	8.1195	0.1945	8.3140	2.1629	0.1904	2.3533		10,253.5367	10,253.5367	0.6037	0.3925	10,385.5877

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	2/17/2021	2/16/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.78

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3512	4.3189	37.4958	0.0801	8.1195	0.0612	8.1807	2.1629	0.0571	2.2200		8,152.1134	8,152.1134	0.5631	0.3540	8,271.6688
Unmitigated	4.3512	4.3189	37.4958	0.0801	8.1195	0.0612	8.1807	2.1629	0.0571	2.2200		8,152.1134	8,152.1134	0.5631	0.3540	8,271.6688

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Research & Development	1,538.96	346.27	194.29	2,948,550	2,948,550
Total	1,538.96	346.27	194.29	2,948,550	2,948,550

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
Research & Development	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.289 2	2,101.289 2	0.0403	0.0385	2,113.776 2
NaturalGas Unmitigated	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.289 2	2,101.289 2	0.0403	0.0385	2,113.776 2

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	17861	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762
Total		0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	17.861	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762
Total		0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762

6.0 Area Detail

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Unmitigated	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7900e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Total	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7900e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Total	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428

7.0 Water Detail

7.1 Mitigation Measures Water

Towne Centre Existing - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Towne Centre Existing
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	192.37	1000sqft	4.42	192,365.00	0
Enclosed Parking with Elevator	420.00	Space	3.78	168,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	400.81	CH4 Intensity (lb/MWhr)	0.017	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS 2028

Land Use -

Construction Phase - No Construction

Off-road Equipment - No Construction

Trips and VMT - No Construction

On-road Fugitive Dust - No Construction

Architectural Coating - No Construction

Vehicle Trips - Based on Project trip gen

Area Coating - rule 67.0.1

Energy Use -

Solid Waste - same as project

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	96,183.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	288,548.00	0.00
tblArchitecturalCoating	ConstArea_Parking	10,080.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_Nonresidential_Exterior	96183	100000
tblAreaCoating	Area_Nonresidential_Interior	288548	300000
tblAreaCoating	Area_Parking	10080	13008
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	3/16/2021	2/16/2021
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.017
tblProjectCharacteristics	CO2IntensityFactor	539.98	400.81
tblSolidWaste	SolidWasteGenerationRate	14.62	11.40
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	26.00	0.00
tblVehicleTrips	ST_TR	1.90	1.80
tblVehicleTrips	SU_TR	1.11	1.01
tblVehicleTrips	WD_TR	11.26	8.00

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Energy	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.289 2	2,101.289 2	0.0403	0.0385	2,113.776 2
Mobile	4.2473	4.6863	38.5727	0.0766	8.1195	0.0612	8.1808	2.1629	0.0571	2.2200		7,798.657 7	7,798.657 7	0.5988	0.3737	7,924.977 5
Total	9.1463	6.4379	40.1061	0.0871	8.1195	0.1945	8.3141	2.1629	0.1904	2.3533		9,900.080 9	9,900.080 9	0.6394	0.4122	10,038.89 64

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Energy	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.289 2	2,101.289 2	0.0403	0.0385	2,113.776 2
Mobile	4.2473	4.6863	38.5727	0.0766	8.1195	0.0612	8.1808	2.1629	0.0571	2.2200		7,798.657 7	7,798.657 7	0.5988	0.3737	7,924.977 5
Total	9.1463	6.4379	40.1061	0.0871	8.1195	0.1945	8.3141	2.1629	0.1904	2.3533		9,900.080 9	9,900.080 9	0.6394	0.4122	10,038.89 64

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	2/17/2021	2/16/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.78

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.2473	4.6863	38.5727	0.0766	8.1195	0.0612	8.1808	2.1629	0.0571	2.2200		7,798.6577	7,798.6577	0.5988	0.3737	7,924.9775
Unmitigated	4.2473	4.6863	38.5727	0.0766	8.1195	0.0612	8.1808	2.1629	0.0571	2.2200		7,798.6577	7,798.6577	0.5988	0.3737	7,924.9775

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Research & Development	1,538.96	346.27	194.29	2,948,550	2,948,550
Total	1,538.96	346.27	194.29	2,948,550	2,948,550

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
Research & Development	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.289 2	2,101.289 2	0.0403	0.0385	2,113.776 2
NaturalGas Unmitigated	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.289 2	2,101.289 2	0.0403	0.0385	2,113.776 2

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	17861	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762
Total		0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	17.861	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762
Total		0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2892	2,101.2892	0.0403	0.0385	2,113.7762

6.0 Area Detail

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Unmitigated	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7900e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Total	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7900e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428
Total	4.7064	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1340	0.1340	3.5000e-004		0.1428

7.0 Water Detail

7.1 Mitigation Measures Water

Towne Centre Existing - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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APPENDIX 3.3:
EMFAC 2017 OUTPUTS

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EMFAC2017 Derived CalEEMod Annual Emission Rates: Year 2028^{1,2}

Season	Pollutant	LDA	LDT	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
Annual	CH4_IDLEX	0	0	0	0.0041394	0.002791309	0.003926734	0.028933023	0.0087669	0	0	0.0357008	0
Annual	CH4_RUNEX	0.0013173	0.0035264	0.0024592	0.0025408	0.0067366	0.005890964	0.001421045	0.082976797	0.0057522	0.0011101	0.3507248	0.0061975 0.0054243
Annual	CH4_STREX	0.0341736	0.0517064	0.0495654	0.0542667	0.0102057	0.006059004	0.009155477	4.78342E-07	0.0218091	0.0157512	0.2388575	0.030042
Annual	CO_IDLEX	0	0	0	0	0.1685968	0.1335158	0.409764367	6.613014607	0.6525079	0	0	1.6576429
Annual	CO_RUNEX	0.4358	0.7809867	0.6180829	0.6131072	0.6293453	0.543808633	0.191938183	0.52845208	0.6291108	0.0616921	19.37641	0.4683938 0.4100982
Annual	CO_STREX	1.7895538	2.0019352	2.3409168	2.4689585	0.8549154	0.502454802	0.982820823	0.008245663	2.3897758	1.2095033	8.7062507	0.4251907
Annual	CO2_NBIO_IDLEX	0	0	0	0	8.8170216	13.65079831	73.13794955	1035.572539	91.553277	0	0	327.46305
Annual	CO2_NBIO_RUNEX	233.22972	288.10645	297.07892	359.05958	717.0751	718.1163717	1036.120412	1323.365747	1418.764	368.62394	220.1611	1033.9185 988.60008
Annual	CO2_NBIO_STREX	47.566751	59.604017	61.597963	73.984344	9.6365063	6.895564392	9.320899167	0.07680672	18.909938	13.655074	59.37981	2.435347
Annual	NOX_IDLEX	0	0	0	0	0.0649837	0.088807844	0.416395522	5.561997529	0.373892	0	0	3.5315143
Annual	NOX_RUNEX	0.0217576	0.0625621	0.0448599	0.0461123	0.6601768	0.649292814	1.374287162	2.509149352	1.1781252	0.0380738	1.1508991	5.7536083 4.2045875
Annual	NOX_STREX ³	0.1369244	0.2013615	0.1994385	0.2220029	0.2347126	0.147590244	1.673281587	2.373271612	0.8024403	0.132975	0.2664677	0.8621343
Annual	PM10_IDLEX	0	0	0	0	0.0010142	0.001462884	0.000265143	0.002616136	0.000128	0	0	0.0038479
Annual	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060884225	0.13034	0.0273725	0.01176	0.7448002 0.13034
Annual	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100531	0.010819958	0.012000003	0.035484153	0.012	0.0024878	0.004	0.0111378 0.016
Annual	PM10_RUNEX	0.0012481	0.0016024	0.0013221	0.0013283	0.0105273	0.015092591	0.006674188	0.024525786	0.0078317	0.0005875	0.0022369	0.0341338 0.0937288
Annual	PM10_STREX	0.0015358	0.0019561	0.0015549	0.001551	0.0002054	0.000107489	0.000114094	7.52045E-07	0.0002329	0.0001782	0.0028337	4.039E-05
Annual	PM25_IDLEX	0	0	0	0	0.0009704	0.001399601	0.000253673	0.002502963	0.0001225	0	0	0.0036814
Annual	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026093239	0.05586	0.0117311	0.00504	0.3192001 0.05586
Annual	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025133	0.002704989	0.003000001	0.008871038	0.003	0.000622	0.001	0.0027844 0.004
Annual	PM25_RUNEX	0.001149	0.0014739	0.001217	0.0012248	0.0100305	0.014417071	0.006377952	0.02346477	0.0074685	0.0005402	0.0020883	0.0326443 0.0896741
Annual	PM25_STREX	0.0014121	0.0017985	0.0014297	0.0014261	0.0001888	9.88321E-05	0.000104905	6.91478E-07	0.0002142	0.0001638	0.0026584	3.713E-05
Annual	ROG_DIURN	0.0286407	0.0797993	0.0532092	0.0608937	0.0014559	0.000707153	0.000328038	2.33189E-06	0.0017501	0.0007673	0.9449295	0.0002424
Annual	ROG_HTSK	0.072731	0.1632841	0.1073162	0.1192436	0.0589364	0.029636982	0.01701221	0.000119206	0.0258135	0.0076262	0.7268994	0.0026447
Annual	ROG_IDLEX	0	0	0	0	0.0178662	0.014496689	0.01921234	0.441753968	0.0557019	0	0	0.1706388
Annual	ROG_RESTL	0.0362209	0.0926324	0.0734452	0.0866482	0.0011655	0.000612303	0.000281061	2.17929E-06	0.0011426	0.0005661	0.7301909	0.000168
Annual	ROG_RUNEX	0.0045762	0.0148531	0.0094931	0.0099851	0.0902405	0.103732019	0.013847147	0.025456462	0.0328514	0.0033486	2.370294	0.0966031 0.1167818
Annual	ROG_RUNLS	0.1789076	0.5834355	0.3860629	0.3944185	0.4323206	0.174882627	0.088691555	0.000570333	0.312229	0.0370357	1.7207447	0.0157326
Annual	ROG_STREX	0.1437718	0.2472179	0.2202413	0.252225	0.0505739	0.029181895	0.046055438	2.4962E-06	0.1138773	0.0619411	1.8245352	0.0171807
Annual	SO2_IDLEX	0	0	0	0	8.518E-05	0.000130379	0.000693982	0.009548727	0.000871	0	0	0.0031084
Annual	SO2_RUNEX	0.0022034	0.0027218	0.0028065	0.0033921	0.0069805	0.006928776	0.009895188	0.011834003	0.0137751	0.0036478	0.0021787	0.0098432 0.0093458
Annual	SO2_STREX	0.0004494	0.0005631	0.0005819	0.0006989	9.536E-05	6.82327E-05	9.22379E-05	7.60065E-07	0.0001871	0.0001351	0.0005876	2.41E-05
Annual	TOG_DIURN	0.0287205	0.0800225	0.053358	0.061064	0.0014559	0.000707153	0.000328038	2.33189E-06	0.0017501	0.0007673	0.9449295	0.0002424
Annual	TOG_HTSK	0.0729341	0.163741	0.1076164	0.1195772	0.0589364	0.029636982	0.01701221	0.000119206	0.0258135	0.0076262	0.7268994	0.0026447
Annual	TOG_IDLEX	0	0	0	0	0.0247671	0.019301232	0.026188201	0.511364463	0.072328	0	0	0.2419369
Annual	TOG_RESTL	0.0363221	0.0928917	0.0736508	0.0868907	0.0011655	0.000612303	0.000281061	2.17929E-06	0.0011426	0.0005661	0.7301909	0.000168
Annual	TOG_RUNEX	0.0066589	0.0217188	0.0138423	0.0145157	0.1074955	0.119840923	0.017177839	0.111295077	0.0456264	0.0048862	2.9539595	0.1134223 0.1329483
Annual	TOG_RUNLS	0.1794085	0.5850692	0.3871439	0.3955229	0.4323206	0.174882627	0.088691555	0.000570333	0.312229	0.0370357	1.7207447	0.0157326
Annual	TOG_STREX	0.1577898	0.271322	0.2417153	0.2768174	0.055372	0.031950502	0.050424907	2.73302E-06	0.1246813	0.0678177	1.9863457	0.0188107
Summer	CH4_IDLEX	0	0	0	0	0.0041478	0.002797533	0.003931524	0.029033023	0.0087705	0	0	0.0357217
Summer	CH4_RUNEX	0.0014356	0.0038108	0.0026686	0.0027588	0.0068197	0.005924816	0.001448802	0.082978609	0.0058948	0.0011303	0.3432798	0.0062595 0.0054243
Summer	CH4_STREX	0.0301717	0.045396	0.0436785	0.0478202	0.0097826	0.005809599	0.008762112	4.5426E-07	0.0208119	0.0143959	0.2093024	0.002647
Summer	CO_IDLEX	0	0	0	0	0.1685968	0.13355158	0.352760286	6.520141454	0.6468266	0	0	1.6187785
Summer	CO_RUNEX	0.4901799	0.8702464	0.6919354	0.6859814	0.6365734	0.54633511	0.194290314	0.529235795	0.6430588	0.0631847	18.499756	0.4750393 0.4100982
Summer	CO_STREX	1.4810737	1.6540073	1.9326116	2.036328	0.8103644	0.476593022	0.923759397	0.00775015	2.2374509	1.0442888	7.7763638	0.3324859
Summer	CO2_NBIO_IDLEX	0	0	0	0	8.8170216	13.65079831	73.03969892	1023.552051	90.507598	0	0	336.66544
Summer	CO2_NBIO_RUNEX	246.13232	301.78702	309.84622	371.75668	717.08824	718.1209616	1036.124624	1323.367031	1418.7889	368.62666	218.5342	1033.9304 988.60008
Summer	CO2_NBIO_STREX	46.995224	58.917966	60.827186	73.159016	9.5584385	6.850285753	9.219995134	0.076020899	18.650261	13.37493	57.112303	2.2808864
Summer	NOX_IDLEX	0	0	0	0	0.0649837	0.088807844	0.406079569	5.310406623	0.3553178	0	0	3.6108604
Summer	NOX_RUNEX	0.0197937	0.0565396	0.0406617	0.0418488	0.6344166	0.625531318	1.322637725	2.416687263	1.1240914	0.0345998	1.0361066	5.5474549 4.054164
Summer	NOX_STREX ³	0.1264664	0.1833372	0.1815678	0.2021029	0.2232477	0.140383553	1.668712811	2.373271025	0.7898972	0.1259038	0.2498171	0.8604574
Summer	PM10_IDLEX	0	0	0	0	0.0010142	0.001462884	0.000265143	0.002923929	0.0001137	0	0	0.0032516
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060884225	0.13034	0.0273725	0.01176	0.7448002 0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100531	0.010819958	0.012000003	0.035484153	0.012	0.0024878	0.004	0.0111378 0.016
Summer	PM10_RUNEX	0.0012481	0.0016024	0.0013221	0.0013283	0.0105273	0.015092591	0.006674188	0.024525786	0.0078317	0.0005875	0.0022369	0.0341338 0.0937288
Summer	PM10_STREX	0.0015358	0.0019561	0.0015549	0.001551	0.0002054	0.000107489	0.000114094	7.52045E-07	0.0002329	0.0001782	0.0028337	4.039E-05
Summer	PM25_IDLEX	0	0	0	0	0.0009704	0.001399601	0.000253673	0.002502963	0.0001088	0	0	0.0031109
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026093239	0.05586	0.0117311	0.00504	0.3192001 0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025133	0.002704989	0.003000001	0.008871038	0.003	0.000622	0.001	0.0027844 0.004
Summer	PM25_RUNEX	0.001149	0.0014739	0.001217	0.0012248	0.0100305	0.014417071	0.006377952	0.02346477	0.0074685	0.0005402	0.0020883	0.0326443 0.0896741
Summer	PM25_STREX	0.0014121	0.0017985	0.0014297	0.0014261	0.0001888	9.88321E-05	0.000104905	6.91478E-07	0.0002142	0.0001638	0.0026584	3.713E-05

Winter	CH4_IDLEX	0	0	0	0	0.0041357	0.002788875	0.004200752	0.018860018	0.0086511	0	0	0.0356981	0
Winter	CH4_RUNEX	0.0012889	0.0034577	0.0024086	0.0024884	0.0066997	0.005875867	0.001407864	0.001129533	0.0056896	0.0010884	0.3548519	0.0061686	0.0054243
Winter	CH4_STREX	0.0357334	0.0541718	0.0518661	0.0567888	0.0103956	0.006171098	0.009309855	4.8886E-07	0.0222565	0.0163557	0.2526816	0.0032371	0
Winter	CO_IDLEX	0	0	0	0	0.1685968	0.13355158	0.489481414	6.58525428	0.6603536	0	0	1.7113129	0
Winter	CO_RUNEX	0.4264993	0.7658076	0.6054766	0.6006984	0.626157	0.542692691	0.190919919	0.25438005	0.623079	0.0610588	19.987952	0.4653234	0.4100982
Winter	CO_STREX	1.9186037	2.1478156	2.5128648	2.6513515	0.8757953	0.514617249	1.008994607	0.008465256	2.4607044	1.2852217	9.174577	0.4713031	0
Winter	CO2_NBIO_IDLEX	0	0	0	0	8.8170216	13.65079831	73.26837884	1027.010479	92.997309	0	0	314.75498	0
Winter	CO2_NBIO_RUNEX	230.89592	285.63247	294.7699	356.7633	717.06929	718.1143417	1036.118585	1252.512894	1418.7532	368.62278	221.26008	1033.9131	988.60008
Winter	CO2_NBIO_STREX	47.804543	59.889396	61.920363	74.32979	9.6729526	6.916772258	9.365547946	0.077154963	19.030566	13.783269	60.49838	2.5121558	0
Winter	NOX_IDLEX	0	0	0	0	0.0649837	0.088807844	0.430640558	5.769415811	0.3995421	0	0	3.421941	0
Winter	NOX_RUNEX	0.0220581	0.0635125	0.045514	0.0467709	0.658424	0.647141907	1.368686888	2.474373549	1.1758396	0.038342	1.1630188	5.7291203	4.185987
Winter	NOX_STREX ²	0.1416298	0.2082795	0.2062875	0.2296357	0.2400012	0.150916364	1.67532615	2.373271874	0.8081343	0.1360547	0.2736262	0.8629385	0
Winter	PM10_IDLEX	0	0	0	0	0.0010142	0.001462884	0.000317887	0.002875714	0.0001477	0	0	0.0046713	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.059347637	0.13034	0.0273725	0.01176	0.7448002	0.13034
Winter	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100531	0.010819958	0.012000003	0.034588183	0.012	0.0024878	0.004	0.0111378	0.016
Winter	PM10_RUNEX	0.0012481	0.0016024	0.0013221	0.0013283	0.0105273	0.015092591	0.006674188	0.024420574	0.0078317	0.0005875	0.0022369	0.0341338	0.0937288
Winter	PM10_STREX	0.0015358	0.0019561	0.0015549	0.001551	0.0002054	0.000107489	0.000114094	7.52045E-07	0.0002329	0.0001782	0.0028337	4.039E-05	0
Winter	PM25_IDLEX	0	0	0	0	0.0009704	0.001399601	0.000304135	0.002751312	0.0001413	0	0	0.0044692	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025434702	0.05586	0.0117311	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025133	0.002704989	0.003000001	0.008647046	0.003	0.000622	0.001	0.0027844	0.004
Winter	PM25_RUNEX	0.001149	0.0014739	0.001217	0.0012248	0.0100305	0.014417071	0.006377952	0.023364109	0.0074685	0.0005402	0.0020883	0.0326443	0.0896741
Winter	PM25_STREX	0.0014121	0.0017985	0.0014297	0.0014261	0.0001888	9.88321E-05	0.000104905	6.91478E-07	0.0002142	0.0001638	0.0026584	3.713E-05	0
Winter	ROG_DIURN	0.0230663	0.0659004	0.0417249	0.0473125	0.0013206	0.000622518	0.000290836	2.03453E-06	0.0016699	0.0006936	0.8593157	0.0002252	0
Winter	ROG_HTSK	0.0785476	0.1823488	0.1158538	0.1279504	0.0687815	0.03289449	0.018401558	0.000130923	0.027534	0.0085491	0.9643924	0.0027585	0
Winter	ROG_IDLEX	0	0	0	0	0.0178662	0.014496689	0.019973481	0.406051007	0.0533927	0	0	0.170905	0
Winter	ROG_RESTL	0.0309197	0.0792218	0.063044	0.0743229	0.0010295	0.000538107	0.000246646	1.90985E-06	0.0010314	0.0005039	0.5793682	0.0001506	0
Winter	ROG_RUNEX	0.0044999	0.0146184	0.0093391	0.0098279	0.0900667	0.103671467	0.013797899	0.023002157	0.0325601	0.003313	2.4059753	0.0964589	0.1167818
Winter	ROG_RUNLS	0.2120195	0.7125202	0.4674121	0.4749061	0.477314	0.194298554	0.099823487	0.00062942	0.3395945	0.0452644	2.0547732	0.0200855	0
Winter	ROG_STREX	0.1510771	0.2601897	0.2315571	0.2652127	0.0515719	0.029756727	0.046997274	2.54724E-06	0.1163205	0.0643768	1.9376792	0.0182882	0
Winter	SO2_IDLEX	0	0	0	0	8.518E-05	0.000130379	0.000695041	0.009702686	0.0008846	0	0	0.0029883	0
Winter	SO2_RUNEX	0.0021813	0.0026984	0.0027847	0.0033704	0.0069804	0.006928756	0.00989517	0.011833998	0.013775	0.0036478	0.0021895	0.0098431	0.0093458
Winter	SO2_STREX	0.0004516	0.0005658	0.000585	0.0007022	9.572E-05	6.84471E-05	9.26797E-05	7.63511E-07	0.0001883	0.0001364	0.0005987	2.486E-05	0
Winter	TOG_DIURN	0.0231307	0.0660849	0.0418416	0.0474449	0.0013206	0.000622518	0.000290836	2.03453E-06	0.0016699	0.0006936	0.8593157	0.0002252	0
Winter	TOG_HTSK	0.0787671	0.1828591	0.1161779	0.1283083	0.0687815	0.03289449	0.018401558	0.000130923	0.027534	0.0085491	0.9643924	0.0027585	0
Winter	TOG_IDLEX	0	0	0	0	0.0247671	0.019301932	0.027406153	0.462258162	0.0696992	0	0	0.24224	0
Winter	TOG_RESTL	0.0310062	0.0794436	0.0632205	0.074531	0.0010295	0.000538107	0.000246646	1.90985E-06	0.0010314	0.0005039	0.5793682	0.0001506	0
Winter	TOG_RUNEX	0.0065473	0.0213755	0.0136169	0.0142858	0.107242	0.119752566	0.017105977	0.026299429	0.0452013	0.0048344	2.9975787	0.1132118	0.1329483
Winter	TOG_RUNLS	0.2126131	0.7145152	0.4687208	0.4762359	0.477314	0.194298554	0.099823487	0.00062942	0.3395945	0.0452644	2.0547732	0.0200855	0
Winter	TOG_STREX	0.1658074	0.2855587	0.2541343	0.2910714	0.0564648	0.032579871	0.051456099	2.78891E-06	0.1273563	0.0704844	2.1094872	0.0200232	0

1 Source: California Air Resources Board. EMFAC2017 Web Database. <https://www.arb.ca.gov/emfac/2017/>; California Air Pollution Control Officers Association (CAPCOA). 2017, November. California Emissions Estimator Model User's Guide, Version 2016.3.2, Appendix A.

2 Unless otherwise noted, per CalEEMod methodology, the calculated CalEEMod emission rates are derived from the emission rates obtained using the EMFAC2017 Web Database for the Los Angeles (SC) region.

3 Because EMFAC2017 provides vehicle trips data for MHDT and HHDT diesel trucks, the formula provided in Appendix A of the CalEEMod User's Guide in calculating the NO_x STREX emission rates are utilized.