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AIR QUALITY IMPACT ASSESSMENT

For the Small Power Plant Exemption Application

**Gilroy Backup Generating Facility
Amazon Data Services, Inc.
Gilroy, CA**

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1. EXECUTIVE SUMMARY

Trinity Consultants, Inc. (Trinity) has prepared an air quality and greenhouse gas (GHG) impact assessment, collectively referred to as the Air Quality Impact Assessment (AQIA), to evaluate potential impacts associated with the proposed construction and operation of the Gilroy Backup Generating Facility (GBGF) (the Project) proposed by Amazon Data Services, Inc., wholly owned by Amazon.com, Inc. (the Applicant). This AQIA supports the Applicant's application for a Small Power Plant Exemption (SPPE) pursuant to Public Resources Code Section 25541 and Section 1934 et seq. of the California Energy Commission (CEC or the Commission) regulations for the GBGF. The GBGF will be located within the jurisdiction of the Bay Area Air Quality Management District (BAAQMD), as such, this AQIA was prepared in accordance with the standards, procedures, and methodologies established in the BAAQMD California Environmental Quality Act (CEQA) Air Quality Guidelines, dated May 2017, and the California Natural Resources Agency's CEQA Guidelines (BAAQMD, 2017b and California Natural Resources Agency, 2019).

The GBGF will consist of a total of 53 diesel-fired emergency generators that will be used exclusively to provide backup power generation to support the Gilroy Data Center (GDC), located at Camino Arroyo in Gilroy, California. Fifty (50) of the emergency generators will be 3,634 brake horsepower (bhp) each, herein referred to as critical backup generators. Two of the emergency generators will be smaller generators rated at 900 bhp each to support fire suppression and other emergency operations, herein referred to as life safety generators. One of the emergency generators will be a smaller generator rated at 280 bhp to support a security building. The GBGF is designed to operate only when electricity from Pacific Gas and Electric Company (PG&E) is unavailable to the GDC.

The proposed Project comprises two primary phases: Phase I and Phase II. Phase I will include the installation of 26 critical backup generators and one life safety generator to support the GDC western building. Phase I will also include installation of the security building generator which will be located adjacent to the site security building. Phase II will include the installation of 24 critical backup generators and one life safety generator to support the GDC eastern building. Construction emissions from the creation of the GBGF will result from ground preparation, grading activities, building erection, parking lot construction activities, use of onsite construction equipment, and architectural coating.

CEQA requires that a lead agency evaluate the potential air pollutant and GHG emissions of a project and determine whether the emissions would result in a significant impact on the environment. The AQIA evaluates the potential emissions related to the proposed Project through individual calculations of air emissions for the proposed Project as well as a discussion of existing air quality and GHG conditions associated with the proposed project location. Emissions are evaluated for the construction phase and operational phase of the GBGF, consistent with the BAAQMD CEQA Air Quality Guidelines. Sources of emissions from the Project include:

- ▶ Various construction equipment (construction phase)
- ▶ 50 critical backup generators (operational phase)
- ▶ 2 life safety generators (operational phase)
- ▶ 1 security building generator (operational phase)

The proposed Project would result in emissions of reactive organic gases (ROG) or volatile organic compounds (VOC), carbon monoxide (CO), nitrogen oxides (NO_x), sulfur oxides (SO_x), particulate matter (PM₁₀ and PM_{2.5}), and GHGs. Table 1-1 summarizes the construction phase emissions and Table 1-2 summarizes the operational phase emissions associated with the proposed Project and comparison to the BAAQMD thresholds of significance, as provided in the BAAQMD CEQA Air Quality Guidelines. The AQIA provides substantial evidence that emissions resulting from the Project would be below the BAAQMD's

thresholds of significance and would result in *less than significant* impacts associated with criteria air pollutant and GHG emissions, except for NO_x.

For the construction phase of the Project, NO_x emissions result from the operation of various mobile construction equipment and vehicular sources. The Applicant will incorporate Mitigation Measure AQ-1, which includes the use of several Tier 4 Final construction equipment units to reduce NO_x emissions during the construction phase. During the construction of the Phase II building exterior, the Applicant will incorporate Mitigation Measure AQ-2 to reduce offsite NO_x concentration impacts, resulting in a *less than significant impact with mitigation incorporated*.

Table 1-1. Summary of Construction Emissions

Activity	Pollutant								CO ₂ e
	Fugitive PM ₁₀ ^a	Fugitive PM _{2.5} ^a	PM ₁₀	PM _{2.5}	CO	NO _x	ROG/VOC	SO ₂	
	Pounds per Day (lb/day)								
Construction Emissions	4.50	1.43	5.95	3.27	80.0	52.6	47.9	0.17	For this analysis and comparison to thresholds, GHG emissions are calculated on an annual basis only.
Significance Threshold	<i>N/A</i>	<i>N/A</i>	<i>82</i>	<i>54</i>	<i>N/A</i>	<i>54</i>	<i>54</i>	<i>N/A</i>	
Significant Impact?	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	
Activity	Tons per Year (tpy) ^b								Metric Tons per Year (MT/yr)
Construction Emissions	0.59	0.19	0.77	0.43	10.4	6.84	6.22	0.02	1,976
Significance Thresholds^c	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
Significant Impact?	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>N/A</i>

a. Fugitive emissions will be controlled with best management practices, in accordance with the significance threshold.

b. Construction emissions represent the maximum mitigated emissions based on 260 total weekdays per year.

c. There are no annual construction-related thresholds of significance.

For the operational phase of the Project, the vast majority of NO_x emissions result from routine operation of the 53 generators, the Applicant will purchase NO_x emission offsets for the routine operation of the 53 generators through the BAAQMD air permitting process and will incorporate Mitigation Measure AQ-3 to reduce offsite NO_x concentration impacts, resulting in a *less than significant impact with mitigation incorporated*.

Table 1-2. Summary of Operational Emissions

Activity	Pollutant						CO ₂ e
	PM ₁₀	PM _{2.5}	CO	NO _x	ROG/VOC	SO ₂	
	Pounds per Day (lb/day)						
Generator Operational Emissions	4.49	4.49	170	968	42.1	1.58	For this analysis and comparison to thresholds, GHG emissions are calculated on an annual basis only.
Mobile and Building Operational Emissions	1.69	0.63	6.56	4.37	10.7	0.03	

Activity	Pollutant						CO _{2e}
	PM ₁₀	PM _{2.5}	CO	NO _x	ROG/ VOC	SO ₂	
	Pounds per Day (lb/day)						
Total Project Operational Emissions	6.19	5.13	176	973	52.7	1.62	
<i>Significance Threshold</i>	82	54	[see note a]	54	54	N/A	
<i>Significant Impact?</i>	No	No	No	Yes	No	No	
Activity	Tons per Year (tpy)						Metric Tons per Year (MT/yr)
Generator Operational Emissions	0.14	0.14	6.79	38.3	1.95	0.06	4,506
Mobile and Building Operational Emissions	0.31	0.12	1.20	0.80	1.94	0.01	2,505
Offsets ^b	--	--	--	-38.3	--	--	--
Total Mitigated Project Operational Emissions	0.45	0.25	7.99	0.80	3.89	0.06	7,011
<i>Significance Thresholds</i>	15	10	[see note a]	10	10	N/A	10,000
<i>Significant Impact?</i>	No	No	No	No	No	No	No

a. CO is evaluated in this AQIA based on screening criteria identified in Table 4-1 for Local CO.

b. The Applicant will provide offsets at the ratio required per BAAQMD Rule 2-2-302.

The AQIA includes air dispersion modeling analyses for emissions of CO, NO_x, PM₁₀, PM_{2.5}, and SO_x from the construction phase (including operation of construction equipment and 28 Phase I generators and the operation phase (including operation of all 53 generators). Air dispersion modeling results are compared to the National Ambient Air Quality Thresholds (NAAQS) and California Ambient Air Quality Standards (CAAQS). While the BAAQMD CEQA Air Quality Guidelines do not require comparison to the NAAQS and CAAQS, the air dispersion modeling results are included based on historic requests for air dispersion modeling results from the Commission for similar SPPE applications. Air dispersion modeling results, with the incorporation of Mitigation Measure AQ-2 and Mitigation Measure AQ-3, suggest that the proposed Project would result in a *less than significant impact with mitigation incorporated*.

The AQIA also evaluates the potential health risks associated with emissions of diesel particulate matter (DPM) from the construction phase and operational phase of the Project, consistent with the AAQS modeling representation. AERMOD dispersion modeling software and the Hotspots Analysis and Reporting Program (HARP) are used to estimate carcinogenic and chronic health risk at residential, worker, and sensitive receptors as a result of the DPM emissions. The analysis concludes that the Project individual and cumulative health risk is below BAAQMD's thresholds of significance for Risk and Hazards and therefore would result in a *less than significant impact*.

Table 1-3 below summarizes the checklist questions from Appendix G of the California state CEQA Guidelines for air quality and greenhouse gas impacts and the impact results for the proposed Project (California Natural Resources Agency, 2019).

Table 1-3. Environmental Impact Significance Determinations

Air Quality				
Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Conflict with or obstruct implementation of the applicable air quality plan?		X		
b. Result in a 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?		X		
c. Expose sensitive receptors to substantial pollutant concentrations?			X	
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			X	
Greenhouse Gas Emissions				
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			X	
b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse			X	

2. PROJECT DESCRIPTION

2.1 Introduction

This AQIA evaluation was prepared to evaluate potential air quality and greenhouse gas impacts associated with the proposed construction of the GBGF proposed by the Applicant. This AQIA supports the Applicant's application for a SPPE pursuant to Public Resources Code Section 25541 and Section 1934 et seq. of the Commission regulations for the GBGF. The GBGF will be located within the jurisdiction of the BAAQMD, as such, this AQIA was prepared in accordance with the standards, procedures, and methodologies established in the BAAQMD CEQA Air Quality Guidelines, dated May 2017 and the California Natural Resources Agency's CEQA Guidelines (California Natural Resources Agency, 2019).

2.2 General Facility Background

The GBGF will be exclusively used to provide emergency electricity to the GDC located at Camino Arroyo in Gilroy, California (Assessor's Parcel Number 841-69-039). See Figure 2-1 for the regional location and Figure 2-2 for the surrounding local area. The GBGF will be equipped with 53 diesel-fueled emergency generators. Fifty (50) generators will be rated at 3,634 bhp each to support the need for the GDC to provide uninterruptible power supply to the facility's servers when utility power is unavailable, herein referred to as critical backup generators. Two (2) generators will be rated at 900 bhp each to support fire suppression and other emergency operations, herein referred to as life safety generators or house power generators. One generator rated at 280 bhp will support the security building when utility power is unavailable, herein referred to as the security building generator. The proposed site occupies approximately 56 acres.

Unlike the typical electrical generating facilities reviewed by the Commission, the GBGF is designed to operate only when electricity from PG&E is unavailable to the GDC. The GBGF will not be electrically interconnected to the electrical transmission grid. Rather, it will consist of two generation yards, each separately electrically interconnected to the two data center buildings that make up the GDC. The GDC's purpose is to support mission critical computer servers, to which interruptions of power could lead to damage or corruption of data and software. To ensure no interruption of electricity service to the servers housed in the GDC building, the servers will be connected to uninterruptible power supply (UPS) systems that store energy and provide near-instantaneous protection from input power interruptions. However, to provide electricity during a prolonged power interruption, the UPS systems will require a power generation source to continue supplying steady power to the servers and other equipment. The GBGF provides that backup power generation source.

The site was previously used for agricultural production and is now awaiting industrial development. The site is near the Highway 101 corridor and immediately adjacent to industrial and commercial development. The topography is flat and the site is bounded by active agricultural lands to the east, active agricultural land and existing urban development to the south, existing urban development and Arroyo Circle to the west and existing urban development to the north.

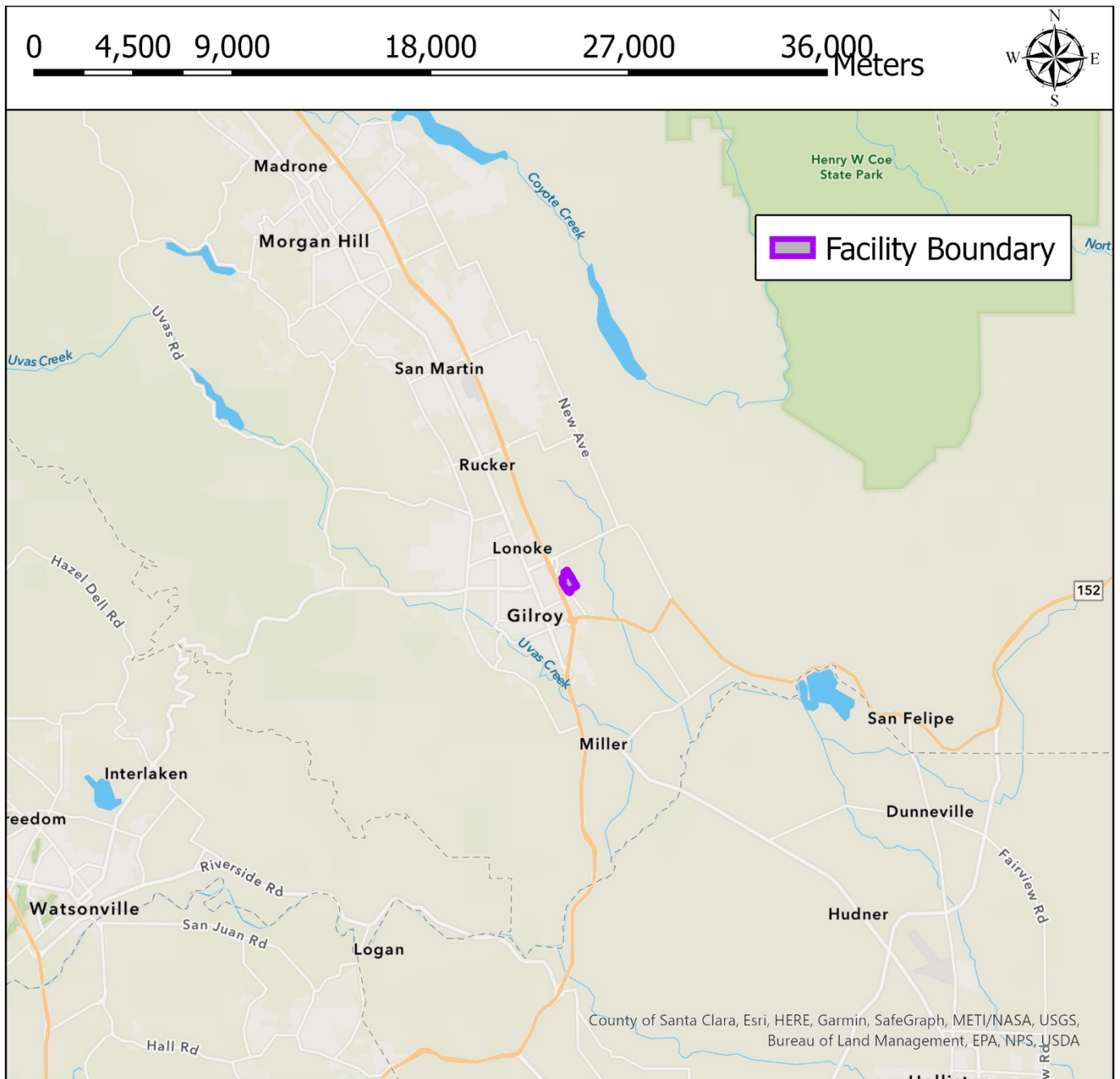


Figure 2-1: Regional Location

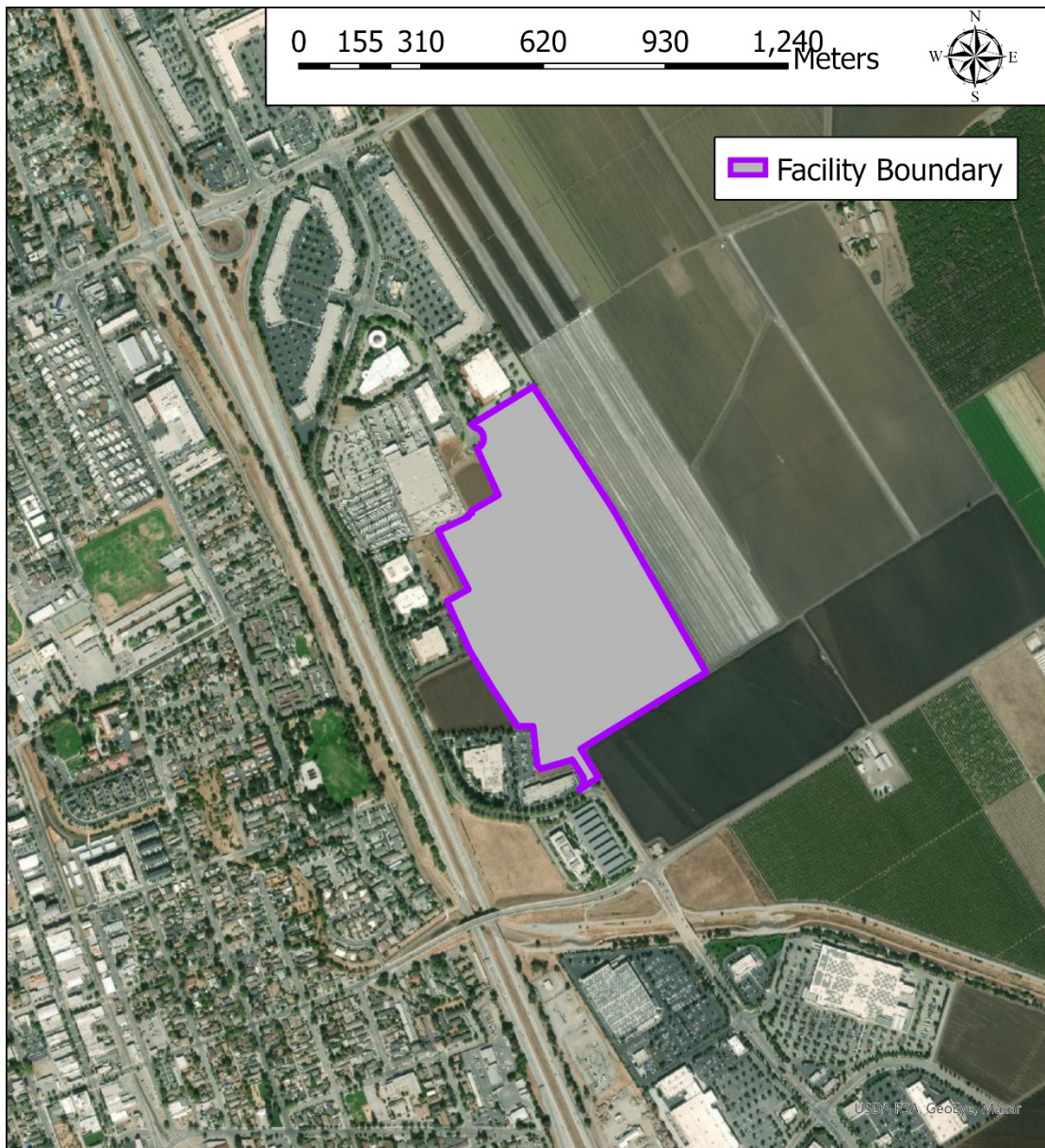


Figure 2-2: Surrounding Local Area

2.3 Project Description

The GBGF will be a backup power generating facility to ensure the power supply to the GDC computer servers remains uninterrupted. The GBGF will consist of 50 critical backup generators arranged in two generation yards, each designed to serve one of the two data center buildings that make up the GDC. Additionally, each data center building will be equipped with a life safety generator to support fire suppression and other emergency operations. One generator will serve the security building near the facility entrance. In total, the GBGF will encompass 53 emergency generators.

2.3.1 GBGF General Site Arrangement and Layout

The GBGF will be constructed to support the GDC which will be comprised of two data storage center buildings and one on campus security building totaling approximately 438,500 square feet. The GBGF will

consist of 50 critical backup generators located at the site in generation yards at two separate locations within the GDC. Each generation yard will be adjacent to the building it serves. Twenty-six (26) of the critical backup generators will be dedicated to support the GDC western building, which is designated as Phase I (2 generators are redundant). Twenty-four (24) of the emergency backup generators will be dedicated to support GDC eastern building, which is designated as Phase II (2 generators are redundant). Additionally, each generator yard will also include one life safety generator. Lastly, there will be a site security building emergency generator located adjacent to the site security building. Appendix A-1 includes a detailed layout of the site plan.

All critical backup generators will be constructed at ground level. The critical backup generators are aligned in the building service yards in the generator yard that services each respective building. Each critical backup generator is provided with a belly fuel tank with a storage capacity of 5,000 gallons. Each of the two life safety generators will be located within the generation yard supporting its respective building and will have a belly fuel tank with a storage capacity of 1,000 gallons. The security building generator will also have a belly fuel tank with a storage capacity of 1,000 gallons. Each generation yard will be electrically interconnected to the building it serves through above ground cable bus to a location within the building that houses electrical distribution equipment. The life safety generators and security building generator will connect to their respective buildings via underground conduit duct bank.

2.3.2 Electrical Generation Equipment

Each of the 50 critical backup generators will be a 3,634 bhp, Caterpillar Model 3516C, Tier-2 emergency diesel-fired generator equipped with a Rypos HDPF/C diesel particulate filter (DPF). Each of the two life safety generators will be a 900 bhp, Caterpillar Model C-18, Tier-2 emergency diesel-fired generator equipped with a Rypos HDPF/C DPF. The security building generator will be a 280 bhp, Caterpillar model C7.1, Tier-3 emergency diesel-fired generator.

The DPF for the critical backup generator model and life safety generator model is verified by the California Air Resources Board (CARB) for model years 1996 through 2019 under Executive Order DE-07-001-07 to reduce emissions of diesel particulate matter by 85% or more (CARB, 2019a). Per correspondence with CARB, it is expected that the DPF will be verified for model year 2020 generators in the forthcoming updated Executive Order¹. The Executive Order specifically notes the DPF is designed for standby engines, which typically operate at various loads. Furthermore, the Executive Order notes that duty cycles of the standby engines which are approved under the Executive Order are reviewed to ensure compatibility DPF, meaning that the DPF is compatible at all duty loads. The CARB Executive Order and email correspondence with CARB is provided in Appendix A-2. Specification sheets from the generator manufacturers are provided in Appendix A-2. The generators will use ultra-low sulfur diesel which has a sulfur content of 0.0015% as defined under 40 CFR 80, Subpart I. The generators will each be equipped with a flapper-type rain cap which is a hinged cap that opens to release exhaust vertically into the atmosphere when the generator is operating.

2.3.3 Facility Operation

The generators will be run for short periods for testing and maintenance purposes and otherwise will not operate unless there is a disturbance or interruption of the utility supply. BAAQMD Rule 9-8 *Nitrogen Oxide Oxides and Carbon Monoxide from Stationary Internal Combustion Engines* and the CARB Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines limits each engine to no more than 50 hours of operation annually for testing and maintenance purposes (CARB, 2019b).

¹ Per email correspondence between John Lee (CARB) and McKay Quinn (Trinity Consultants) dated September 16, 2020.

Table 2-1 below summarizes the routine maintenance and testing schedule for each of the critical backup generators. The volume of fuel consumption at each load is provided by the manufacturer specification sheets in Appendix A-2, under "Fuel Consumption" in the Package Performance Data section. Note that for bi-weekly readiness testing, the generators are tested in a manner that does not generate a load and does not consume fuel.

Table 2-1: Critical Backup Generator Testing and Maintenance Events

Event	Frequency	Maximum Duration (min)	Maximum Number of Generators Tested Concurrently ^a	Maximum Number of Generators Tested per Day ^a	Typical Load Range	Fuel Consumption per Event
Readiness Testing	Bi-weekly	20	1	28	0%	Approximately 0 gallons
Generator Maintenance and Testing	Annual	120	1	1	25% for 30 min. 50% for 30 min. 100% for 1 hour	Approximately 248 gallons
	3 years					
	6 years					

a. The Applicant proposes to limit operation to one generator at a time for routine maintenance and testing activities conducted pursuant to manufacturer specifications.

Any electricity generated during maintenance and testing of the generators will be directed to a load bank, which is a device that develops electrical load and then converts or dissipates the power output of the generators by applying that load. In other words, the load bank uses the energy generated by the emergency generators to test the generators, without any electricity entering the electrical transmission grid.

2.4 Project Phasing and Construction

Construction of the GBGF will take place in two phases; one for each generation yard which will be constructed to serve each of the two GDC Buildings. Phase I will include the installation of 26 critical backup generators and one life safety generator to support the GDC western building as well as one security building generator to support the security building on the north side of the property. Phase I will also include construction of the substation on the western edge of the site property. Phase II will include the installation of 24 critical backup generators and one life safety generator to support the GDC eastern building.

Construction emissions from the construction of the GDC will result from ground preparation, grading activities, building erection, parking lot construction activities, use of onsite construction equipment, and architectural coating. GBGF offsite construction emissions will result primarily from materials transport to and from the site, materials placement in the generation yard, and worker travel.

Construction of the generation yard to support the Phase I GDC Building is anticipated to begin between April 2021 and May 2021. Phase I exterior construction is expected to take approximately 11 months. Additional Phase I interior construction activities are expected to take approximately 25 months following exterior construction. Phase II exterior construction is assumed to occur immediately following completion of the first generation yard and the substation, and to take approximately 10 months. Additional Phase II interior construction activities are expected to take approximately 30 months following exterior construction. Note that construction emissions calculated in this AQIA encompass both exterior and interior construction.

As the generators are expected to be installed at the Project site beginning in 2022, an Authority to Construct (ATC) application will be submitted to the BAAQMD in 2021. It should be noted that BAAQMD has accepted Tier 2 backup generators of the same horsepower as those in the proposed Project as Best Available Control Technology (BACT) for other sites of similar design and purpose in calendar year 2019.

Provided below is an overview of the local and regional air quality environment, the physical setting of the Project area, a discussion of GHGs and global climate change, and existing regulations related to air quality and GHGs.

3.1 Introduction

The Project site is located in the Santa Clara County within the incorporated areas of the City of Gilroy and within the boundaries of the San Francisco Bay Area Air Basin (Bay Area Air Basin). The Bay Area Air Basin encompasses all of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara Counties; the southwestern portion of Solano County; and the southern portion of Sonoma County. The BAAQMD acts as the regulatory agency for air pollution control in the Bay Area Air Basin and is the local agency empowered to regulate air pollutant emissions for the proposed Project area.

The BAAQMD develops and adopts Air Quality Management Plans (AQMPs), which serve as a blueprint to bring the Bay Area Air Basin into compliance with federal and state clean air standards and adopts rules to reduce emissions from various sources, including specific types of equipment, activities, processes, and products.

3.2 Environmental Setting

3.2.1 Climate and Meteorology

Air quality is a function of both the rate and location of pollutant emissions under the influence of meteorological conditions and topographic features that influence pollutant movement and dispersion. Atmospheric conditions such as wind speed, wind direction, atmospheric stability, and air temperature gradients interact with the physical features of the landscape to determine the movement and dispersion of air pollutants and consequently affect air quality (Abbott, 2003).

The climate of the San Francisco Bay Area is determined largely by a high-pressure system that is almost always present over the eastern Pacific Ocean off the West Coast of North America. High-pressure systems are characterized by an upper layer of dry air that warms as it descends, restricting the mobility of cooler marine-influenced air near the ground surface and resulting in the formation of subsidence inversions. In winter, the Pacific high-pressure system shifts southward, allowing storms to pass through the region. During summer and fall, emissions generated within the San Francisco Bay Area can combine with abundant sunshine under the restraining influences of topography and subsidence inversions to create conditions that are conducive to the formation of photochemical pollutants such as ozone (O₃) (Abbott, 2003).

More specifically, the Project area is located in the Santa Clara Valley climatological subregion. The BAAQMD CEQA Air Quality Guidelines characterizes the Santa Clara Valley as:

"...bounded by the Bay to the north and by mountains to the east, south and west. Temperatures are warm on summer days and cool on summer nights, and winter temperatures are fairly mild. At the northern end of the valley, mean maximum temperatures are in the low-80's during the summer and the high-50's during the winter, and mean minimum temperatures range from the high-50's in the summer to the low-40's in the winter. Further inland, where the moderating effect of the Bay is not as strong, temperature extremes are greater...

Winds in the valley are greatly influenced by the terrain, resulting in a prevailing flow that roughly parallels the valley's northwest-southeast axis. A north-northwesterly sea breeze flows through the valley during the afternoon and early evening, and a light south-southeasterly drainage flow occurs during the late evening and early morning. In the summer the southern end of the valley sometimes becomes a "convergence zone," when air flowing from the Monterey Bay gets channeled northward into the southern end of the valley and meets with the prevailing north-northwesterly winds.

Wind speeds are greatest in the spring and summer and weakest in the fall and winter. Nighttime and early morning hours frequently have calm winds in all seasons, while summer afternoons and evenings are quite breezy. Strong winds are rare, associated mostly with the occasional winter storm.

The air pollution potential of the Santa Clara Valley is high. High summer temperatures, stable air and mountains surrounding the valley combine to promote O₃ formation. In addition to the many local sources of pollution, O₃ precursors from San Francisco, San Mateo and Alameda Counties are carried by prevailing winds to the Santa Clara Valley. The valley tends to channel pollutants to the southeast. In addition, on summer days with low level inversions, O₃ can be recirculated by southerly drainage flows in the late evening and early morning and by the prevailing northwesterlies in the afternoon. A similar recirculation pattern occurs in the winter, affecting levels of CO and PM. This movement of the air up and down the valley increases the impact of the pollutants significantly.

Pollution sources are plentiful and complex in this subregion. The Santa Clara Valley has a high concentration of industry at the northern end, in the Silicon Valley. Some of these industries are sources of air toxics as well as criteria air pollutants. In addition, Santa Clara Valley's large population and many work-site destinations generate the highest mobile source emissions of any subregion in the [Bay Area Air Basin]."

3.2.2 Regional Air Quality

NAAQS are established by the U.S. EPA for various pollutants: O₃, PM₁₀, PM_{2.5}, CO, nitrogen dioxide (NO₂), sulfur dioxide (SO₂), and lead (Pb). These standards set maximum concentrations over different averaging periods—primarily to protect public human health and secondarily to protect public welfare (protect against decreased visibility as well as damage to animals, crops, vegetation, and buildings).

CAAQS are established by the State of California and are in some cases more stringent than the NAAQS and include other pollutants in addition to the criteria pollutants. Pollutants covered by the CAAQS include O₃, PM₁₀, PM_{2.5}, CO, NO₂, SO₂, Pb, sulfates, hydrogen sulfide (H₂S), and vinyl chloride.

Both state and national air quality standards consist of two parts: an allowable concentration of a pollutant in ambient air, and an averaging time over which the concentration is measured. The allowable concentrations are based on the results of studies of the effects of the pollutants on human health, crops and vegetation, and, in some cases, damage to paint and other materials. The averaging times are based on whether the damage caused by the pollutant is more likely to occur during exposure to a high concentration for a short time (e.g., one hour), or to a relatively lower average concentration over a longer period (e.g., 8 hours, 24 hours, or one year). For some pollutants there is more than one air quality standard, reflecting both its short-term and long-term effects. Table 3-1 below presents the CAAQS and NAAQS for selected common pollutants, including pollutants applicable to the Project.

The degree to which a region's air quality is healthy or unhealthy is determined by comparing pollutant concentrations in ambient air samples to the state and national standards presented in Table 3-1. California standards for ambient background O₃, CO (except 8-hour Lake Tahoe), SO₂, NO₂, PM₁₀, PM_{2.5}, and visibility reducing particles are values that are not to be exceeded (though there can be averaging involved for

certain annual limits). Attainment with the national short-term standards is generally achieved if the standards are not exceeded more than once per year, though each pollutant has a specified averaging methodology. The O₃ standard is attained when the fourth-highest eight-hour concentration in a year, averaged over three years, is less than the standard. For PM₁₀, the 24-hour standard is attained when the number of days per calendar year with a 24-hour average concentration above the standard is equal to or less than one averaged over three years. Nonattainment areas are subject to additional restrictions and standards, as required by the U.S. EPA. The air quality data collected at local monitoring stations are also used to monitor progress in attaining air quality standards.

Under the provisions of the Federal Clean Air Act, the Bay Area Air Basin is classified as either in attainment, nonattainment, or unclassified/attainment with respect to the NAAQS. Table 3-2 provides the NAAQS and CAAQS classification statuses for the Bay Area Air Basin based on the local criteria pollutant concentrations and federal and state designations.

The human health and environmental effects of the criteria pollutants for which NAAQS are set are summarized in Table 3-3 below. The sections following Table 3-3 provide a more detailed discussion of the typical sources of such criteria pollutants.

Table 3-1: Summary of Ambient Air Quality Standards

Pollutant	Averaging Time ^a	CAAQS	NAAQS	Major Pollutant Sources
O ₃	8-hour	0.070 ppm	0.070 ppm	▶ Formed when ROG and NO _x react in the presence of sunlight. ▶ Major sources include on-road motor vehicles, solvent evaporation, and commercial/ industrial mobile equipment.
	1-hour	0.09 ppm	--	
CO	8-hour	9.0 ppm	9 ppm	▶ Internal combustion engines, primarily gasoline-powered motor vehicles.
	1-hour	20 ppm	35 ppm	
NO ₂	Annual	0.030 ppm	0.053 ppm	▶ Motor vehicles, petroleum refining operations, industrial sources, aircraft, ships, and railroads.
	1-hour	0.18 ppm	0.100 ppm	
SO ₂	Annual ^b	---	0.030 ppm	▶ Fuel combustion, chemical plants, sulfur recovery plants and metal processing.
	24-hour ^b	0.04 ppm	0.14 ppm	
	3-hour	--	0.5 ppm	
	1-hour	0.25 ppm	0.075 ppm	
Respirable Particulate Matter (PM ₁₀)	Annual	20 µg/m ³	--	▶ Dust- and fume-producing industrial and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays). ▶ Formed from photochemical reactions of other pollutants, including NO _x , SO _x , and organics.
	24-hour	50 µg/m ³	150 µg/m ³	
Fine Particulate Matter (PM _{2.5})	Annual	12 µg/m ³	12 µg/m ³	▶ Fuel combustion in motor vehicles, equipment, and industrial sources; residential and agricultural burning. ▶ Formed from photochemical reactions of other pollutants, including NO _x , SO _x , and organics.
	24-hour	--	35 µg/m ³	
Pb	Calendar Quarter ^c	--	1.5 µg/m ³	▶ Present sources: Pb smelters, battery manufacturing, and recycling facilities. ▶ Past source: combustion of leaded gasoline.
	30-days	1.5 µg/m ³	--	
	3-months	---	0.15 µg/m ³	
Hydrogen Sulfide (H ₂ S)	1-hour	0.03 ppm	--	▶ Geothermal power plants, petroleum production and refining.
Vinyl Chloride	24-hour	0.01 ppm	--	▶ Production of PVC plastic.
Visibility Reducing Particles	8-hour	Extinction of 0.23/km; visibility of ≥ 10 miles	--	▶ See PM _{2.5} .
Sulfates	24-hour	25 µg/m ³	--	▶ Formed from SO ₂ emitted from combustion of petroleum-derived fuels.

Sources: BAAQMD, 2017b; CARB, 2009, 2016, and 2019c, d, and e.

ppm = parts per million, µg/m³ = micrograms per cubic meter

- Different statistical methodologies may apply between CAAQS and NAAQS thresholds for the same pollutants (e.g., arithmetic mean of maximum annual impacts from over five years versus annual mean over five years expressed as the maximum result modeled year in a five year period).
- The annual and 24-hour SO₂ NAAQS only remain in effect in certain areas: (1) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and (2) any area for which an implementation plan providing for attainment of the current (2010) standard has not been submitted and approved and which is designated nonattainment under the previous SO₂ standards or is not meeting the requirements of a SIP call under the previous SO₂ standards (40 CFR 50.4(e)).
- The calendar quarter lead NAAQS only applies in areas for which implementation plans to attain or maintain the current (2008) standards have not been submitted and approved.

Table 3-2: Summary of BAAQMD Attainment Status

Pollutant	California AAQS ^a	NAAQS ^b
O ₃ — 1-hour	Nonattainment	N/A
O ₃ — 8-hour	Nonattainment	Nonattainment
CO — 1-hour	Attainment	Attainment
CO — 8-hour	Attainment	Attainment
NO ₂ — 1-hour	Attainment	Unclassified
NO ₂ — Annual	Attainment	Attainment
SO ₂ — 1-hour	Attainment	Unclassified
SO ₂ — 3-hour	N/A	Attainment
SO ₂ — 24-hour	Attainment	Attainment
SO ₂ — Annual	N/A	Attainment
PM ₁₀ — 24-hour	Nonattainment	Unclassified
PM ₁₀ — Annual	Nonattainment	N/A
PM _{2.5} — 24-hour	N/A	Nonattainment ^c
PM _{2.5} — Annual	Nonattainment	Unclassified/Attainment
Pb	Attainment ^d	Attainment
H ₂ S	Unclassified	N/A
Vinyl Chloride	No information available ^d	N/A
Visibility Reducing Particles	Unclassified	N/A
Sulfates	Attainment	N/A

Sources: BAAQMD, 2017c and CARB, 2020b

Notes: AAQS = ambient air quality standards.

N/A = Not Applicable

- a. See CCR Title 17 Sections 60200-60210.
- b. See 40 CFR Part 81.
- c. U.S. EPA tightened the national 24-hour PM_{2.5} standard from 65 to 35 µg/m³ in 2006. On January 9, 2013, U.S. EPA issued a final rule to determine that the Bay Area Air Basin was in attainment with respect to the 24-hour PM_{2.5} national standard. This U.S. EPA rule suspends key state implementation plan (SIP) requirements as long as monitoring data continue to show that the Bay Area Air Basin attains the standard. Despite this U.S. EPA action, the Bay Area Air Basin will continue to be designated as nonattainment for the national 24-hour PM_{2.5} standard until the BAAQMD submits a redesignation request and a maintenance plan to U.S. EPA, and U.S. EPA approves the proposed redesignation.
- d. CARB has identified Pb and vinyl chloride as “toxic air contaminants” with no threshold level of exposure below which no adverse health effects have been determined.

Table 3-3: Summary of Health and Environmental Effects of Key Criteria Pollutants

Pollutant	Health Effects	Environmental Effects	Examples of Sources
O ₃	<ul style="list-style-type: none"> ▶ Respiratory symptoms ▶ Worsening of lung disease leading to premature death ▶ Damage to lung tissue 	<ul style="list-style-type: none"> ▶ Crop, forest, and ecosystem damage ▶ Damage to a variety of materials, including rubber, plastics, fabrics, paint and metals 	<ul style="list-style-type: none"> ▶ Formed by chemical reactions of air pollutants in the presence of sunlight; common sources are motor vehicles, industries, and consumer products
PM ₁₀	<ul style="list-style-type: none"> ▶ Premature death & hospitalization, primarily for worsening of respiratory disease 	<ul style="list-style-type: none"> ▶ Reduced visibility and material soiling 	<ul style="list-style-type: none"> ▶ Cars and trucks (especially diesel), fireplaces, wood stoves, windblown dust from roadways, agriculture, and construction activities
PM _{2.5}	<ul style="list-style-type: none"> ▶ Premature death ▶ Hospitalization for worsening of cardiovascular disease ▶ Hospitalization for respiratory disease ▶ Asthma-related emergency room visits ▶ Increased symptoms, increased inhaler usage 	<ul style="list-style-type: none"> ▶ Reduced visibility and material soiling 	<ul style="list-style-type: none"> ▶ Cars and trucks (especially diesel), fireplaces, wood stoves, windblown dust from roadways, agriculture, and construction activities
CO	<ul style="list-style-type: none"> ▶ Chest pain in patients with heart disease ▶ Headache ▶ Light-headedness ▶ Reduced mental alertness 	<ul style="list-style-type: none"> ▶ None 	<ul style="list-style-type: none"> ▶ Any source that burns fuel such as cars, trucks, construction and farming equipment, and residential heaters and stoves
NO ₂	<ul style="list-style-type: none"> ▶ Lung irritation ▶ Enhanced allergic responses 	<ul style="list-style-type: none"> ▶ Reacts to form acid precipitation and deposition 	<ul style="list-style-type: none"> ▶ Any source that burns fuel such as cars, trucks, construction and farming equipment, and residential heaters and stoves
SO ₂	<ul style="list-style-type: none"> ▶ Worsening of asthma: increased symptoms, increased medication usage, and emergency room visits 	<ul style="list-style-type: none"> ▶ Reacts to form acid precipitation and deposition 	<ul style="list-style-type: none"> ▶ Coal and oil burning power plants, refineries, and diesel engines
Pb	<ul style="list-style-type: none"> ▶ Impaired mental functioning in children ▶ Learning disabilities in children ▶ Brain and kidney damage 	<ul style="list-style-type: none"> ▶ Soil and water pollutant 	<ul style="list-style-type: none"> ▶ Metal smelters, resource recovery, leaded gasoline, Pb paint

Source: CARB, 2009.

3.2.2.1 Ozone (O₃)

O₃, or smog, is a highly reactive and unstable gas not emitted directly into the environment. O₃ is formed in the atmosphere by complex chemical reactions between ROG and NO_x in the presence of sunlight. O₃ formation is greatest on warm, windless, sunny days. The main sources of NO_x and ROG — often referred to as O₃ precursors—are combustion processes (including motor vehicle engines); the evaporation of solvents, paints, and fuels; and biogenic sources. O₃ is the main contributor to visible smog in the Bay Area Air Basin and is also a strong oxidant (BAAQMD, 2017b). O₃ levels typically build up during the day and peak in the afternoon hours.

3.2.2.2 Respirable and Fine Particulate Matter (PM₁₀ and PM_{2.5})

Particulate matter refers to a wide range of tiny solid and/or liquid particles in the atmosphere, including smoke, dust, aerosols, and metallic oxides. Respirable PM with an aerodynamic diameter of 10 micrometers or less is referred to as PM₁₀. PM_{2.5} is a subgroup of fine particulates that have an aerodynamic diameter of 2.5 micrometers or less. Some particulate matter, such as pollen, is naturally occurring. Atmospheric reactions between primary gaseous emissions such as SO₂ and NO_x from power plants can also form particulate sulfates as PM_{2.5}. Wood burning in fireplaces and stoves are also large sources of fine particulates, especially during the winter season (BAAQMD, 2017b).

3.2.2.3 Carbon Monoxide (CO)

CO is an odorless, colorless gas. It is formed by the incomplete combustion of fuels. Because CO is emitted directly from internal combustion engines, mobile sources are the primary source of CO in the BAAQMD. Emissions are highest during cold starts, hard acceleration, stop-and-go driving, and when a vehicle is moving at low speeds. CO can also be formed by photochemical reactions in the atmosphere from methane (CH₄) and non-methane hydrocarbons (NMHC) and organic molecules in water and soil (BAAQMD, 2017b).

3.2.2.4 Nitrogen Oxides (NO_x)

NO₂ is a pungent-smelling gas that is brownish-red in color. Of the gases referred to as NO_x, NO₂ and nitric oxide (NO) are the two most prevalent gases. Nitrogen oxides are created during combustion processes and are also created in the atmosphere when NO photochemically reacts with other pollutants to create NO₂. Automobiles and industrial operations are the main sources of NO₂. Ambient concentrations of NO₂ are related to traffic density, and as such, commuters in heavy traffic may be exposed to higher concentrations of NO₂ than the concentrations indicated by regional monitors (CARB, 2019c). NO₂ may be visible as a coloring component of a brown cloud on high pollution days, especially in conjunction with high O₃ levels (BAAQMD, 2017b).

3.2.2.5 Sulfur Dioxide (SO₂)

SO₂ is a colorless acid gas with a pungent odor. It is produced by the combustion of sulfur-containing fuels, such as oil, coal, and diesel. It is also formed from chemical processes occurring at chemical plants and refineries. When SO₂ oxidizes in the atmosphere, it forms sulfates (SO₄). Collectively, these pollutants are referred to as SO_x (CARB, 2019d and CARB, 2019e).

3.2.2.6 Lead (Pb)

Pb is a metal found naturally in the environment as well as in manufactured products. The major sources of Pb emissions have historically been mobile and industrial sources. As a result of the phase-out of leaded gasoline, metal processing is currently the primary source of Pb emissions. The highest levels of Pb in the

air are generally found near Pb smelters. Other stationary sources include waste incinerators, utilities, and Pb-acid battery manufacturers. Several decades ago, mobile sources were the main contributor to Pb concentrations in the ambient air due to leaded gasoline. In the early 1970s, the U.S. EPA set national regulations to gradually reduce the Pb content in gasoline. In 1975, unleaded gasoline was introduced for motor vehicles equipped with catalytic converters. The U.S. EPA banned the use of leaded gasoline in highway vehicles in December 1995. As a result of the U.S. EPA's regulatory efforts, emissions of Pb from the transportation sector and levels of Pb in the air have decreased substantially (BAAQMD, 2017b).

3.2.3 Local Air Quality

BAAQMD operates a regional monitoring network that measures the ambient concentrations of the six criteria air pollutants within the Bay Area Air Basin. Existing levels of air pollutants in the Project area can generally be inferred from ambient air quality measurements conducted by the BAAQMD at nearby monitoring stations. The nearest permanent station to the Project site is the Gilroy monitoring station approximately 1 mile to the southwest. The Gilroy monitoring station only measures O₃ and PM_{2.5}. As such, the remaining pollutant measurements can be found from the next closest monitoring stations within the Bay Area Air Basin, which are the Knox Avenue monitoring station and the Jackson Street monitoring station, both in San Jose approximately 30 miles to the northwest. The Knox Avenue monitoring station only measures CO and NO₂, thus the remaining pollutant measurements can be found are from the Jackson Street monitoring station. Table 3-4 summarizes the applicable monitoring station information while their locations are depicted in Figure 3-1.

Table 3-4: Representative Air Quality Monitoring Stations for the Proposed Project Area

Pollutants	Monitoring Site	Monitoring Site Address	Approximate Distance from Project Area
O ₃ , PM _{2.5}	Gilroy	9th and Princevalle St, Gilroy, CA 95020	1.25 mi SW
CO, NO ₂	San Jose – Knox	1007 Knox Ave. San Jose, CA 95122	27 mi NW
SO ₂ , PM ₁₀	San Jose – Jackson	158 E. Jackson St, San Jose, CA 95112	29 mi NW

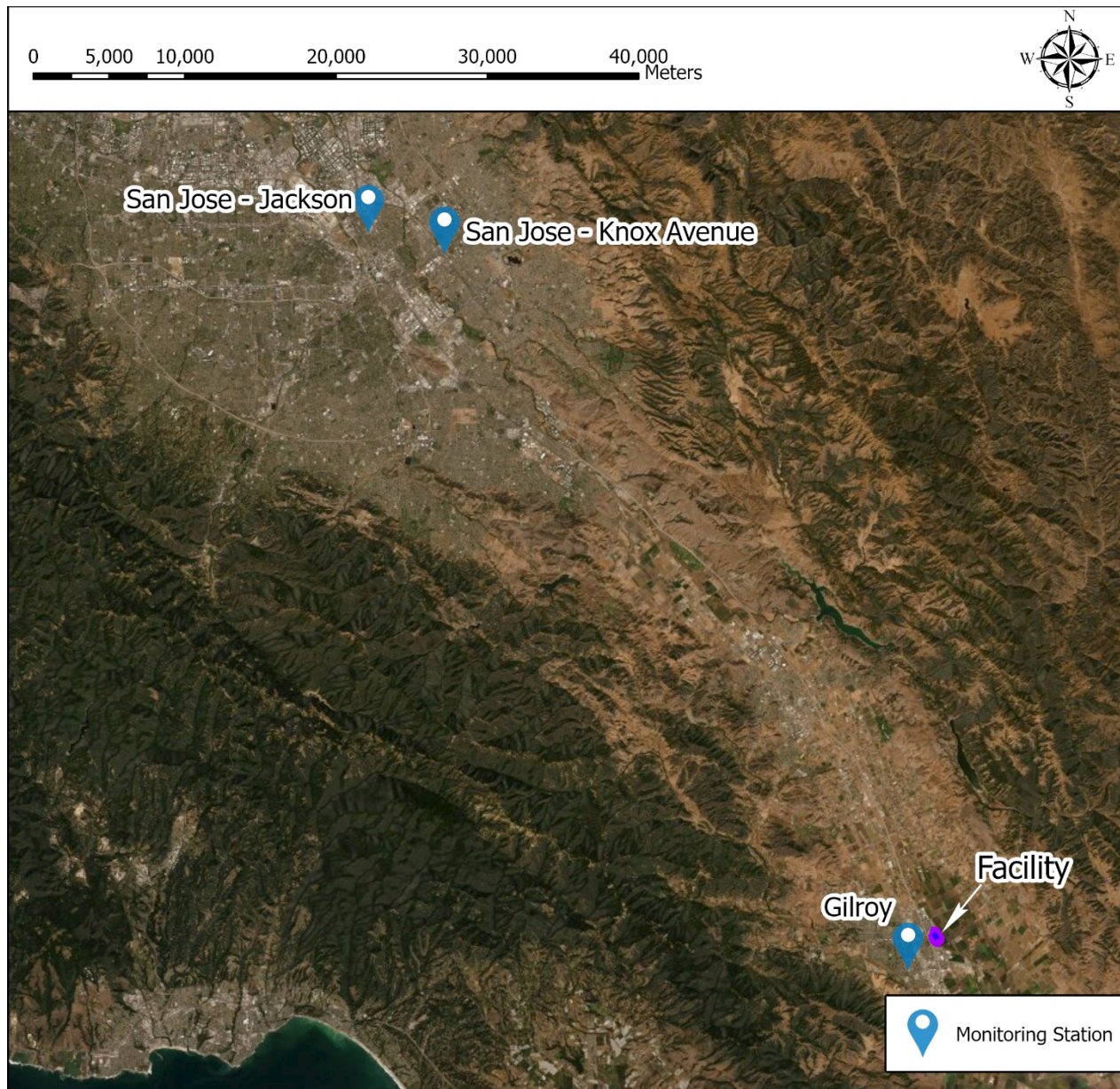


Figure 3-1: Project Site and Monitoring Sites

Table 3-5 presents the most recent three years of ambient air quality monitoring data (2017-2019) available for the monitoring stations. The ambient air quality data in Table 3-5 show that NO₂, SO₂, CO, and PM_{2.5} levels are below the applicable state and federal standards. At the closest BAAQMD monitoring station to the proposed Project location providing PM₁₀ measurements, the state AAQS are exceeded for PM₁₀. Attainment status designations are provided in Table 3-2.

Table 3-5: Existing Air Quality Monitoring Data in Proposed Project Area ^{a,b,c}

Pollutant	Units	Averaging Time	Basis of Yearly/Design Concentrations	2017	2018	2019	Design	Station
Ozone (O ₃)	ppb	1-Hr	CAAQS - 1st Highs/3-yr Max	96	97	79	N/A	Gilroy
		8-Hr	CAAQS - 1st Highs/3-yr Max	84	65	67	N/A	Gilroy
			NAAQS - 4th Highs/3-yr Avg	64	61	63	N/A	Gilroy
Nitrogen dioxide (NO ₂)	ppb	1-Hr	CAAQS - 1st Highs/3-yr Max	76.9	88	65.1	88	Knox
			NAAQS - 98th %s/3-yr Avg	52.1	55.4	50.5	53	Knox
		Annual	CAAQS - AAM/3-yr Max	17.0	16.7	14.5	17	Knox
			NAAQS - AAM/3-yr Avg	17.0	16.7	14.5	16.1	Knox
Carbon monoxide (CO)	ppm	1-Hr	CAAQS - 1st Highs/3-yr Max	2.6	2.8	2.0	2.8	Knox
			NAAQS - 2nd Highs/3-yr Max	2.5	2.7	2.0	2.7	Knox
		8-Hr	CAAQS - 1st Highs/3-yr Max	1.8	2.3	1.6	2.3	Knox
			NAAQS - 2nd Highs/3-yr Max	1.8	2.3	1.6	2.3	Knox
Sulfur dioxide (SO ₂)	ppb	1-Hr	CAAQS - 1st Highs/3-yr Max	3.6	6.9	14.5	14.5	Jackson
			NAAQS - 99th %s/3-yr Avg	3.1	3.2	2.2	2.8	Jackson
	ppm	3-Hr	NAAQS - 2nd Highs/1-yr	0.0023	0.0028	0.0019	0.0028	Jackson
	ppb	24-Hr	CAAQS - 1st Highs/3-yr Max	1.10	1.1	1.5	1.5	Jackson
	ppb	Annual	NAAQS - AAM/3-yr Avg	0.20	0.21	0.14	0.18	Jackson
Respirable Particulate Matter (PM ₁₀) ^d	µg/m ³	24-Hr	CAAQS - 1st Highs/3-yr Max	69	121	77	121	Jackson
		24-Hr	NAAQS - 2nd Highs/3-yr 4th High ^e	67	118	56	80	Jackson
		Annual	CAAQS - AAM/3-yr Max	21.6	23.1	19.2	23	Jackson
Fine Particulate Matter (PM _{2.5}) ^d	µg/m ³	24-Hr	NAAQS - 98th %s/3-yr Avg	21.2	46.5	13.4	27	Gilroy
		Annual	CAAQS - AAM/3-yr Max	5.52	7.8	5.82	7.8	Gilroy
			NAAQS - AAM/3-yr Avg	5.52	7.8	5.82	6.4	Gilroy

Notes: AAM = annual arithmetic mean.

- a. Monitoring values are chosen sequentially based on proximity to the facility and availability of data. The Gilroy monitoring station located at 9th and Princeville is closest in proximity, followed by the San Jose - Knox monitoring station located at 1007 Knox Ave, then San Jose - Jackson located at 158 East Jackson St.
SO₂ 24 hr and PM₁₀ Annual CAAQS Data sources: Bay Area Air Pollution Summaries (BAAQMD, 2018, 2019, and 2020a).
- c. NAAQS and CAAQS with overlapping averaging time data sources: U.S. EPA AirData Air Quality Monitors Data (2017, 2018, 2019) (U.S. EPA, 2020a).
Annual SO₂ NAAQS Data Source: U.S. EPA Annual Summary Data for Concentration by Monitor (2017, 2018, 2019) (U.S. EPA, 2020b).
- d. Note that significant wildfires occurred in California in 2017 and 2018, resulting in higher concentrations of particulate matter than in years without significant wildfires.
- e. Design value is an average of PM₁₀ 24-hr second highs from 2017, 2018, and 2019 per Section 2.1 of Appendix K to 40 CFR Section 50.6.

3.2.4 Sensitive Land Uses Near the Proposed Project Area

For the purposes of this AQIA, sensitive receptors are considered locations with people who are more sensitive than the general public to the effects of air pollutants. The reasons for increased sensitivity include

preexisting health problems, proximity to emissions sources, or duration of exposure to air pollutants. Schools, hospitals, and convalescent homes are considered to be sensitive receptors because children, the infirm, and elderly people are more susceptible to respiratory distress and other air quality-related health problems than the general public. Residential areas are also considered sensitive to poor air quality because residents are often home for extended periods of time which results in greater exposure to ambient air quality; however, residential receptors are considered a separate receptor type from sensitive receptors. Table 3-6 lists the nearest sensitive receptors within two miles of the Project's property boundary.² The list includes sensitive receptors potentially impacted by acute health risks (e.g., a medical facility where a sick person may visit for a single check-up per year) as well as sensitive receptors potentially impacted by chronic health risks (e.g., a medical facility where a patient may need to stay for long-term in-patient care or a school where a student would attend every weekday for many years). Table 3-7 lists the nearest residential areas to the Project area.

² The sensitive receptors were identified using Google Earth and Google Maps.

Table 3-6: Sensitive Receptors near the Project Area

ID	Name of Sensitive Receptor	Address of Sensitive Receptor	Type	Distance from Property Boundary to Sensitive Receptor [miles] ^a
1	Kaiser Permanente Gilroy Medical Offices	7520 Arroyo Cir, Gilroy, CA 95020	Healthcare Facility	0.06
2	Satellite Healthcare Gilroy	8095 Camino Arroyo Suite 100, Gilroy, CA 95020	Healthcare Facility	0.08
3	Valley Health Center Gilroy	7475 Camino Arroyo, Gilroy, CA 95020	Healthcare Facility	0.08
4	Gilroy Healthcare and Rehabilitation Center	8170 Murray Ave, Gilroy, CA 95020	Nursing Home	0.33
5	Gilroy Neighborhood Health Clinic	7861 Murray Ave, Gilroy, CA 95020	Healthcare Facility	0.34
6	South Valley Middle School	385 loof Ave, Gilroy, CA 95020	School	0.36
7	Wagon Wheel Mobile Village Senior Community	8282 Murray Avenue, Gilroy, CA 95020	Senior Living	0.44
8	Eliot Elementary School	475 Old Gilroy St, Gilroy, CA 95020	School	0.45
9	Rebekah Children's Services	290 loof Ave, Gilroy, CA 95020	Healthcare Facility	0.46
10	Miranda's Residential Care Home	7566 Alexander St, Gilroy, CA 95020	Nursing Home	0.5
11	Gilroy Prep School	277 loof Ave, Gilroy, CA 95020	School	0.52
12	Gardner South County Health Center	7526 Monterey Rd, Gilroy, CA 95020	Healthcare Facility	0.65
13	Creative Play Learning Center	95 4th St, Gilroy, CA 95020	Daycare	0.69
14	Neil Reza MD	7872 Egleberry St, Gilroy, CA 95020	Healthcare Facility	0.69
15	Concentra Urgent Care	190 Leavesley Rd Suite 102, Gilroy, CA 95020	Healthcare Facility	0.71
16	Gavilan Foot Care Center	80 5th St, Gilroy, CA 95020	Healthcare Facility	0.73
17	St. Mary's School	7900 Church Street, Gilroy, CA 95020	School	0.75
18	Hunny Bunny Daycare	7361 Egleberry St, Gilroy, CA 95020	Daycare	0.79
19	Chamberlain's Mental Health	8352 Church St # C, Gilroy, CA 95020	Healthcare Facility	0.84
20	Forget Me Not Child Care	7661 Rosanna St, Gilroy, CA 95020	Daycare	0.87
21	South County Pain & Rehabilitation	7091 Monterey St Ste A, Gilroy, CA 95020	Healthcare Facility	0.89
22	South Valley Imaging Center	8359 Church St, Gilroy, CA 95020	Healthcare Facility	0.93

ID	Name of Sensitive Receptor	Address of Sensitive Receptor	Type	Distance from Property Boundary to Sensitive Receptor [miles] ^a
23	Footsteps Preschool	8335 Church St, Gilroy, CA 95020	Daycare	0.93
24	Brownell Academy Middle School	7800 Carmel St, Gilroy, CA 95020	School	0.99
25	Santa Clara County Family Resources	8833 Monterey Rd STE G, Gilroy, CA 95020	Healthcare Facility	1.07
26	Wheeler Manor	651 W 6th St # 3, Gilroy, CA 95020	Nursing Home	1.14
27	Glen View Elementary School	600 W 8th St, Gilroy, CA 95020	School	1.15
28	Ms.Sally's Home Day Care and Preschool	7941 Princevalle St, Gilroy, CA 95020	Daycare	1.16
29	Community Solutions	9015 Murray Avenue, #100, Gilroy, CA 95020	Healthcare Facility	1.17
30	Gilroy Medical Pharmacy	700 W 6th St G, Gilroy, CA 95020	Healthcare Facility	1.2
31	Tiny Tots Preschool & Daycare	8985 Monterey Rd, Gilroy, CA 95020	Daycare	1.24
32	Mimi's Place Home Day Care	7390 Orchard Dr, Gilroy, CA 95020	Daycare	1.27
33	Evelia Daycare	7380 Orchard Dr, Gilroy, CA 95020	Daycare	1.27
34	Allergy & Asthma Associates of Northern California	9360 No Name Uno #250, Gilroy, CA 95020	Healthcare Facility	1.28
35	A Woman For Women Medical Group Inc.	9360 No Name Uno #260, Gilroy, CA 95020	Healthcare Facility	
36	Ellis Eye & Laser Medical Center	9360 No Name Uno Suite 210, Gilroy, CA 95020	Healthcare Facility	
37	Mittal Family Healthcare, Inc.	9360 No Name Uno #240, Gilroy, CA 95020	Healthcare Facility	
38	California Vascular & Vein Center	9360 No Name Uno Rd, #110, Gilroy, CA 95020	Healthcare Facility	
39	Clever Kidz Home Daycare	295 London Dr, Gilroy, CA 95020	Daycare	1.29
40	ABC daycare	8401 Wayland Ln, Gilroy, CA 95020	Daycare	1.29
41	Gamboia Lawrence S MD	10 Canterbury Pl, Gilroy, CA 95020	Healthcare Facility	1.31
42	Gilroy Elderly Care Home	415 London Dr, Gilroy, CA 95020	Nursing Home	1.33
43	Jemel's Home Care Services	298 Churchill Pl, Gilroy, CA 95020	Nursing Home	1.35
44	Miriam House	318 Churchill Pl, Gilroy, CA 95020	Nursing Home	1.36
45	St. Louise Regional Hospital	9400 No Name Uno, Gilroy, CA 95020	Hospital	1.38
46	Gilroy Family Medical Group	9460 No Name Uno #115, Gilroy, CA 95020	Healthcare Facility	1.44
47	Foothill Community Health Center	9460 No Name Uno, #110 & #215, Gilroy CA 95020	Healthcare Facility	

ID	Name of Sensitive Receptor	Address of Sensitive Receptor	Type	Distance from Property Boundary to Sensitive Receptor [miles] ^a
48	We Care Health Center	7880 Wren Ave # C133, Gilroy, CA 95020	Healthcare Facility	1.44
49	Community Internal Medicine	7880 Wren Ave # D143, Gilroy, CA 95020	Healthcare Facility	
50	One World Preschool	8387 Wren Ave, Gilroy, CA 95020	Daycare	1.46
51	El Roble Elementary School	930 3rd St, Gilroy, CA 95020	School	1.48
52	Little Star Daycare	759 Gary St, Gilroy, CA 95020	Daycare	1.48
53	CareMore Medical Group	7888 Wren Ave C-131, Gilroy, CA 95020	Healthcare Facility	1.48
54	CJ's Make A Wish Day Care	6440 Hastings Pl, Gilroy, CA 95020	Daycare	1.49
55	Dominique M. Ly, FNP	7933 Wren Ave suite d, Gilroy, CA 95020	Healthcare Facility	1.5
56	Little Angels daycare	6121 Hyde Park Dr, Gilroy, CA 95020	Daycare	1.52
57	Gilroy High School	750 W 10th St, Gilroy, CA 95020	School	1.52
58	Castle Care Facility	9061 Wren Ave, Gilroy, CA 95020	Nursing Home	1.54
59	Playland Child Development Center	7272 Carr Pl, Gilroy, CA 95020	Daycare	1.55
60	Terri's Learning Tree Preschool	890 Dearborn Pl, Gilroy, CA 95020	Daycare	1.56
61	Little Blue Star Daycare	826 Mantelli Dr, Gilroy, CA 95020	Daycare	1.71
62	Kays Kids Daycare & Preschool	8345 Kern Ave, Gilroy, CA 95020	Daycare	1.72
63	Rod Kelley Elementary School	8755 Kern Ave, Gilroy, CA 95020	School	1.76
64	Sandra's daycare	1029 Welburn Ave, Gilroy, CA 95020	Daycare	1.80
65	Mt Madonna High School	8750 Hirasaki Ct, Gilroy, CA 95020	School	1.89
66	Anaya's Daycare	955 Brook Way, Gilroy, CA 95020	Daycare	1.91
67	Go Kids Inc	902 Arizona Cir, Gilroy, CA 95020	Daycare	1.94
68	Las Animas Elementary	6550 Cimino St, Gilroy, CA 95020	School	1.97

Source: Google Earth, 2020

- a. BAAQMD considers the zone of influence the area extending 1,000 feet (0.19 miles) from the site boundary. Only sensitive receptor IDs 1, 2, and 3 fall within this zone. Sensitive receptor ID 1 is an office building unlikely to be visited by patients. It was conservatively included on this list as it is associated with a medical facility; however, for the purposes of the health risk assessment, it is considered worker receptor. Sensitive receptor ID 2 and 3 do not have in-patient care and patients are not expected to only visit for short periods of time. Therefore, sensitive individuals at these sites would only be impacted by acute health risks.

Table 3-7: Residential Areas near the Project Area

ID	Distance from Property Boundary to Sensitive Receptor [miles]
Northwest Residences	0.17 - 0.36
West Residences	0.30
Southwest Residences	0.19 - 0.23
Southeast Residence	0.21

Source: Google Earth, 2020

Figure 3-2 identifies the locations of the sensitive receptors listed in Table 3-6 as pink markers. The closest areas with residences are identified with blue and the site property boundary is denoted with a purple outline.

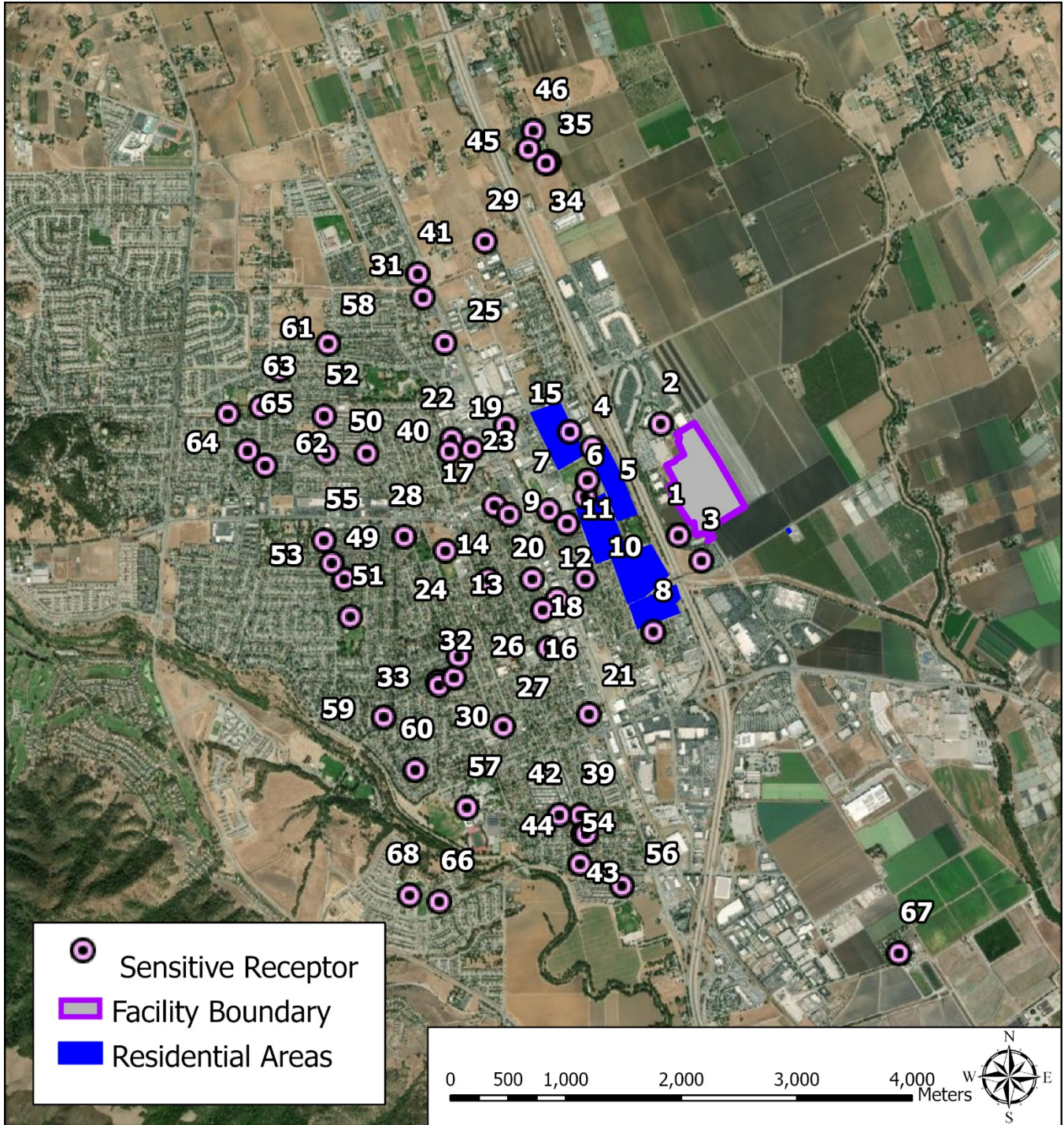


Figure 3-2: Location of Sensitive Receptors and Surrounding Residential Areas

3.2.5 Greenhouse Gases

Greenhouse gases comprise a set of compounds whose presence in the atmosphere is associated with the differential absorption of incoming solar radiation and outgoing radiation from the surface of the earth. In theory, GHGs in the atmosphere affect the global energy balance of the atmosphere-ocean-land system and

thereby affect climate change. More specifically, GHGs absorb the long-wave radiation emitted by the earth and hence are capable of warming the atmosphere. Regulated GHGs in California are carbon dioxide (CO₂), CH₄, nitrous oxide (N₂O), sulfur hexafluoride (SF₆), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and nitrogen trifluoride (NF₃). Other GHGs, such as water vapor, are not regulated.

To quantify the impact of specific GHGs, each gas is assigned a global warming potential (GWP). Individual GHG compounds have varying GWP and atmospheric lifetimes. The GWP of a GHG is a measure of how much a given mass of a GHG is estimated to contribute to global warming relative to CO₂, which is assigned a GWP of 1.0.

The GWP is used to determine the CO₂ equivalent (CO₂e) mass of each GHG. Calculation of the CO₂e is the accepted methodology for comparing GHG emissions since it normalizes various GHG emissions to a consistent reference gas, CO₂. For example, CH₄'s GWP of 25 indicates that the global warming effect of CH₄ is 25 times greater than that of CO₂ on a molecule per molecule basis. CO₂e is the mass emissions of an individual GHG multiplied by its GWP.

Natural processes and human activities emit GHGs. The presence of GHGs in the atmosphere affects the earth's temperature. As discussed in more detail below, many scientists believe that emissions from human activities, such as electricity production and vehicle use, have led to elevated concentrations of these gases in the atmosphere beyond the level of naturally occurring concentrations. Table 3-8 lists GHGs, GWPs, a description of each GHG, and sources for each of the GHGs.

Table 3-8: GWPs, Properties, and Sources of GHGs

Constituent	GWP	Description and Physical Properties	Sources
CO ₂	1	CO ₂ is an odorless, colorless, naturally occurring GHG.	CO ₂ is emitted from natural and anthropogenic (human) sources. Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic out gassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood.
CH ₄	25	CH ₄ is an organic, colorless, naturally occurring, flammable gas. Its atmospheric concentration is less than CO ₂ , and its lifetime in the atmosphere is brief (10-12 years) compared to other GHGs.	CH ₄ has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of CH ₄ . Other anthropogenic sources include fossil-fuel and biomass combustion, as well as landfilling and wastewater treatment.
N ₂ O	298	N ₂ O, commonly referred to as "laughing gas," is a colorless, nonflammable GHG. It is a powerful oxidizer and breaks down readily in the atmosphere.	Nitrous oxide is produced by microbial processes in soil and water, including those reactions that occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is used as an aerosol spray propellant (e.g., in whipped cream bottles) and it is also used in potato chip bags to keep chips fresh. It is used in rocket engines and in race cars.
HFCs	92 - 14,900	HFCs are synthetic man-made chemicals that form one of the GHGs with the highest global warming potential.	HFCs are man-made for applications such as automobile air conditioners and refrigerants.
PFCs	6,288 - 17,700	PFCs are colorless, non-flammable, dense gases that have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years.	The two main sources of PFCs are primary aluminum production and semiconductor manufacture.
SF ₆	22,800	SF ₆ is an inorganic, odorless, colorless, nontoxic, nonflammable gas.	SF ₆ is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.
NF ₃	17,200	NF ₃ is an inorganic, colorless, odorless, nonflammable gas.	NF ₃ is used primarily in the plasma etching of silicon wafers

Source: CARB, 2018a.

There is growing concern about GHG emissions and their adverse impacts on the world's climate and on the environment. These concerns relate to the change in the average weather of the earth that may be measured by changes in wind patterns, storms, precipitation, and temperature. Although there is disagreement as to the rate of global climate change and the extent of the impacts attributable to human activities, the scientific community agrees that there is a direct link between increased emissions of GHGs and long-term global temperature increases. Several gases act as GHGs — their common attribute is that they allow sunlight to enter the atmosphere, but trap a portion of the outward-bound infrared radiation, which warms the air. The process is similar to the effect greenhouses have in raising the air temperature inside the greenhouse, hence the name GHGs. The presence of GHGs in the atmosphere regulates the earth's temperature; however, emissions from human activities such as fossil fuel-based electricity production and the use of motor vehicles have elevated the concentration of GHGs in the atmosphere. It is widely believed that this accumulation of GHGs is contributing to global climate change (BAAQMD, 2017a).

Global climate change refers to the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms, lasting for decades or longer. The term "global climate change" is often used interchangeably with the term "global warming," but "global climate change" is preferred by some scientists and policymakers to "global warming" because it helps convey the notion that in addition to rising temperatures, other changes in global climate may occur. Climate change may result from the following influences:

- ▶ Natural factors, such as changes in the sun's intensity or slow changes in the earth's orbit around the sun;
- ▶ Natural volcanic activity;
- ▶ Natural processes within the climate system (e.g., changes in ocean circulation); and/or
- ▶ Human activities that change the atmosphere's composition (e.g., through burning fossil fuels) and the land surface (e.g., deforestation, reforestation, urbanization, and desertification).

As determined from worldwide meteorological measurements between 1990 and 2005, the primary observed effect of global climate change has been a rise in the average global tropospheric temperature of 0.36 degrees Fahrenheit (°F) per decade. Climate change modeling shows that further warming could occur, which could induce additional changes in the global climate system during the current century. Changes to the global climate system, ecosystems, and the environment of California could include higher sea levels, drier or wetter weather, changes in ocean salinity, changes in wind patterns, or more energetic aspects of extreme weather (e.g., droughts, heavy precipitation, heat waves, extreme cold, and increased intensity of tropical cyclones).

According to the 2006 California Climate Action Team (CAT) Report, several climate change effects can be expected in California over the course of the next century (CalEPA, 2006). These are based on trends established by the IPCC and are summarized below.

- ▶ A diminishing Sierra Nevada snowpack, declining by 70% to 90%, and thereby threatening the state's water supply.
- ▶ A rise in sea levels, resulting in the displacement of coastal businesses and residences. During the past century, sea levels along California's coast have risen about seven inches.
- ▶ An increase in temperature and extreme weather events. Climate change is expected to lead to increases in the frequency, intensity, and duration of extreme heat events and heat waves in California.
- ▶ Increased risk of large wildfires if rain increases as temperatures rise. Wildfires in the grasslands and chaparral ecosystems of southern California are estimated to increase by approximately 30% toward the end of the 21st century because more winter rain will stimulate the growth of more plant fuel available to burn in the fall. In contrast, a hotter, drier climate could promote up to 90% more northern California fires by the end of the century by drying out and increasing the flammability of forest vegetation.

- ▶ Reductions in the quality and quantity of certain agricultural products. The crops and products likely to be adversely affected include wine grapes, fruit, nuts, and milk.
- ▶ Increased electricity demand, particularly in the hot summer months.
- ▶ Increased ground-level O₃ formation due to higher reaction rates of O₃ precursors.

Worldwide emissions of GHGs in 2008 were 30.1 billion metric tons of CO₂e and have increased considerably since then (United Nations, 2011). It is important to note that the global emissions inventory data are not all from the same year and may vary depending on the source of the data (U.S. EPA, 2016). Emissions from the top five emitting countries and the European Union accounted for approximately 55% of total global GHG emissions. The United States was the number two producer of GHG emissions. The primary GHG emitted by human activities in the United States was CO₂, representing approximately 84% of total GHG emissions (U.S. EPA, 2016).

CARB is responsible for developing and maintaining the California GHG emissions inventory. This inventory estimates the amount of GHGs emitted into and removed from the atmosphere by human activities within the state of California and supports the Assembly Bill (AB) 32 Climate Change Program. CARB's current GHG emission inventory covers the years 1990 through 2017 and is based on fuel use, equipment activity, industrial processes, and other relevant data (e.g., housing, landfill activity, and agricultural lands).

California's net emissions of GHGs decreased by approximately 9% from 468 million metric tons (MMT) of CO₂e in 2000 to 425 MMT in 2018, with a maximum of 491 MMT in 2004 (CARB, 2020a). In 2016, statewide GHG emissions dropped below the 2020 GHG target (equivalent to 1990 GHG emission levels) and have remained below ever since. Overall trends indicate the carbon intensity of California's economy is declining.

Additional notable trends visible in the data collected thus far in the emission inventories for 2000-2018 include the following (CARB, 2020a):

- ▶ Transportation emissions decreased in 2018 compared to the previous year, which is the first year over year decrease since 2013.
- ▶ California's electricity sector has experienced an overall downward trend in emissions since 2008.
- ▶ Solar power generation has continued its rapid growth since 2013.
- ▶ Emissions from high-GWP refrigerants increased 2.3% in 2018 (2000-2018 average year-over-year increase is 6.8%). This upward trend is due to high-GWP refrigerants replacing Ozone Depleting Substances (ODS) which are being phased out in accordance with the 1987 Montreal Protocol.

CARB estimates that transportation was the source of approximately 39.9% of California's GHG emissions in 2018, followed by electricity generation at 14.8%. Other sources of GHG emissions were industrial sources at 21%, residential plus commercial activities at 9.7%, agriculture at 7.7%, and high-GWP sources at 4.8% (CARB, 2020a). It is anticipated that the Covid-19 pandemic will impact California's GHG emissions for 2020, particularly the transportation section due to widespread initiatives promoting or requiring remote work and the overall reduction in travel.

3.3 Existing Policies and Regulations – Air Quality

Established federal, state, and regional regulations provide the framework for analyzing and controlling air pollutant emissions and thus general air quality. The U.S. EPA is responsible for implementing the programs established under the federal Clean Air Act, such as establishing and reviewing the federal ambient air quality standards and judging the adequacy of State Implementation Plans (SIPs), described further below. However, the U.S. EPA has delegated the authority to implement many of the federal programs to the states while retaining an oversight role to ensure that the programs continue to be implemented. In California,

CARB is responsible for establishing and reviewing the state ambient air quality standards, developing and managing the California SIP, securing approval of this plan from the U.S. EPA, and identifying toxic air contaminants (TACs). CARB also regulates mobile emissions sources in California, such as construction equipment, trucks, and automobiles, and oversees the activities of air quality management districts (AQMDs), which are organized at the county or regional level. An AQMD is primarily responsible for regulating stationary emissions sources at facilities within its geographic areas and for preparing the air quality plans that are required under the federal Clean Air Act and 1988 California Clean Air Act. The BAAQMD is the regional agency with regulatory authority over emission sources in the nine-county San Francisco Bay Area.

3.3.1 Federal Regulatory Authority

The U.S. EPA has responsibility for enforcing, on a national basis, the requirements of many of the country's environmental laws. Region 9, headquartered in San Francisco, is responsible for the local administration of U.S. EPA programs for California, Arizona, Nevada, Hawaii, and certain Pacific trust territories. The U.S. EPA's activities, relative to the California air pollution control program, focus principally on reviewing California's submittals for the SIP. The SIP is required by the federal Clean Air Act to demonstrate how all areas of the state will meet the NAAQS within the federally-specified deadlines.

The Federal Clean Air Act (CAA) establishes a federal requirement for the U.S. EPA to develop and adopt air quality standards, the NAAQS (see Table 3-1), and specifies future dates for achieving air quality compliance. The CAA further mandates that states submit and implement SIPs for those areas not meeting these standards. The SIPs must include air pollution control measures that demonstrate how the NAAQS will be met. The 1990 amendment to the CAA requires that areas not meeting NAAQS demonstrate reasonable further progress toward attainment and incorporate sanctions for failure to attain or meet specific attainment milestones. Each state is required to adopt an implementation plan outlining pollution control measures to attain the federal standards in nonattainment areas of the state. CARB is responsible for incorporating AQMPs for local air basins into a SIP, which is then reviewed and approved by the U.S. EPA.

In addition to requiring the establishment of NAAQS and the development and maintenance of SIPs, the CAA authorizes the U.S. EPA to establish regulations on certain categories of stationary sources of air pollution.

Specifically, Section 111 of the CAA authorizes the U.S. EPA to establish standards of performance for new and existing sources, commonly referred to as New Source Performance Standards (NSPS). NSPS Subpart IIII establishes emission standards, fuel requirements, testing requirements, and other compliance requirements for manufacturers, owners, and operators of stationary compression ignition internal combustion engines.

The generators are subject to Subpart IIII. Per 40 CFR §60.4205(b) and §60.4202, emergency compression ignition (CI) engines rated between 50 bhp and 3,000 bhp are subject to the emissions standards in 40 CFR §89.112, Table 1, as follows. Further, emergency CI engines rated above 3,000 bhp that are not fire pump engines are subject to the same emission standards, as follows:

- NO_x + NMHC: 6.4 g/kw-hr (4.8 g/bhp-hr)
- CO: 3.5 g/kw-hr (2.6 g/bhp-hr)
- PM: 0.20 g/kw-hr (0.15 g/bhp-hr)

Using the recommended BAAQMD procedure for separating the NO_x+NMHC value, the applicable standard for NO_x would be 4.56 g/bhp-hr, and the applicable standard for NMHC (ROG) would be 0.24 g/bhp-hr (BAAQMD, 2004).³

The proposed critical backup generators, life safety generators, and security generator will satisfy these requirements based upon EPA engine family certification levels supplied by the manufacturer. In addition, the proposed critical backup generators and life safety generators will utilize a DPF which will reduce the PM emissions down to 0.0135 g/bhp-hr for the critical backup generators and 0.0123 g/bhp-hr for the life safety generators.

Similarly, Section 112 of the CAA authorizes the U.S. EPA to establish emission standards for listed hazard air pollutants, commonly referred to as National Emission Standards for Hazardous Air Pollutants (NESHAPs). NESHAP Subpart ZZZZ establishes national emission and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines located at major and area sources of HAP emissions. The proposed generators meet the requirements of NESHAP Subpart ZZZZ through compliance with NSPS Subpart IIII per 40 CFR §63.6590(c)(1).

The U.S. EPA also has jurisdiction over emissions from non-stationary sources that are under the authority of the federal government, including aircraft, locomotives, and emissions sources outside state waters. The U.S. EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements set by CARB.

3.3.2 State of California Regulatory Authority

CARB is responsible for ensuring the implementation of the California Clean Air Act and for regulating emissions from consumer products and motor vehicles. The California Clean Air Act mandates the achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain CAAQS by the earliest practical date. CARB established the CAAQS for all pollutants for which the federal government has NAAQS. Additional standards for sulfates, visibility-reducing particles, H₂S, and vinyl chloride have been established; however, they are not considered to be a regional air quality problem at this time. H₂S, vinyl chloride, sulfates, and visibility-reducing particles are not measured at any monitoring station in the Bay Area Air Basin. Generally, the CAAQS are equal to or more stringent than the NAAQS.

CARB also implements the ATCM for Stationary Compression Ignition Engines (Stationary CI Engine ATCM) under Title 17 of California Code of Regulations (CCR) Section 93115. The generators are considered new >50 bhp emergency standby diesel-fueled CI engines and will comply with the ATCM by firing ultra-low sulfur diesel, maintaining a Tier 2 or Tier 3 engine certification to meet emission standards, operating with a non-resettable hour meter, and operating no more than 50 hours per year for maintenance and testing purposes.

3.3.3 Regional Regulatory Authority

The Clean Air Act requires that regional planning and air pollution control agencies prepare a regional Air Quality Plan to outline the measures by which both stationary and mobile sources of pollutants can be controlled in order to achieve all standards specified in the Clean Air Act. The California Clean Air Act also requires the development of air quality plans and strategies to meet state air quality standards in areas designated as nonattainment (with the exception of areas designated as nonattainment for the state PM

³ Assumes a breakdown of 5% NMHC and 95% NO_x.

standards). Maintenance plans are required for attainment areas that had previously been designated as nonattainment in order to ensure continued attainment of the standards.

For air quality planning purposes, the Bay Area Air Basin is classified as a nonattainment area for O₃ and PM_{2.5}. BAAQMD is required to update its Clean Air Plan to reflect progress in meeting the air quality standards and to incorporate new information regarding the feasibility of control measures and new emission inventory data. The Bay Area's record of progress in implementing previous measures must also be reviewed. Bay Area plans are prepared with the cooperation of the Metropolitan Transportation Commission (MTC), and the Association of Bay Area Governments (ABAG). On April 19, 2017, the BAAQMD adopted the most recent revision to the Clean Air Plan - the *BAAQMD 2017 Clean Air Plan: Spare the Air, Cool the Climate* (2017 Clean Air Plan) (BAAQMD, 2017a). The 2017 Clean Air Plan serves to:

- ▶ Describe a comprehensive control strategy to protect public health and the climate;
- ▶ Update the Bay Area 2010 Clean Air Plan in accordance with the requirements of the California Clean Air Act to implement "all feasible measures" to reduce emissions of O₃ precursors and to reduce transport of O₃ and its precursors to neighboring air basins;
- ▶ Enhance efforts to reduce emissions of particulate matter and toxic air contaminants; and
- ▶ Lay the groundwork for a long-term effort to reduce GHG emissions in the Bay Area Air Basin.

3.3.4 Local Regulatory Authority

BAAQMD Rules and Regulations. The BAAQMD is the regional agency responsible for rulemaking, permitting, and enforcement activities affecting stationary sources of air pollutant emissions in the Bay Area Air Basin. Specific rules and regulations adopted by the BAAQMD limit the emissions that can be generated by various activities and identify specific pollution reduction measures that must be implemented in association with these activities. These rules regulate not only emissions of the six criteria air pollutants, but also toxic emissions and acutely hazardous non-radioactive materials emissions.

Emissions sources subject to these rules are regulated through the BAAQMD's permitting process and standards of operation. Through this permitting process, including an annual permit review, the BAAQMD monitors generation of stationary emissions and uses this information in developing its air quality plans. Any sources of stationary emissions constructed as part of a project within BAAQMD's jurisdiction are subject to the BAAQMD Rules and Regulations. Both federal and state O₃ plans rely upon stationary source control measures set forth in BAAQMD's Rules and Regulations.

BAAQMD Regulation 2 Rule 2 – *New Source Review (NSR)* applies to all new or modified sources requiring a Permit to Operate (PTO) for any new source with actual or potential emissions above the rule trigger limit. The rule also specifies when BACT is required. Per the BACT requirements for CI Stationary Emergency engines rated at greater than 50 bhp (BAAQMD, 2010), the following emission limits are BACT for the proposed generators:

- PM: 0.15 g/bhp-hr
- NMHC+NO_x: 4.8 g/bhp-hr
- CO: 2.6 g/bhp-hr
- SO₂: fuel sulfur content not to exceed 15 ppmw

Using the recommended CARB procedure for separating the NO_x+NMHC value, the applicable standard for NO_x would be 4.56 g/bhp-hr, and the applicable standard for NMHC (ROG) would be 0.24 g/bhp-hr.

The critical backup generators, life safety generators, and security generator proposed for the Project meet these emission limits, so BACT is satisfied. In addition, the proposed critical backup generators and life safety generators will utilize a DPF which will reduce the PM emissions down to 0.0135 g/bhp-hr for the critical backup generators and 0.0123 g/bhp-hr for the life safety generators.

BAAQMD Rule 2-2-302, *Offset Requirements, Precursor Organic Compounds and Nitrogen Oxides*, and Rule 2-2-303, *Offset Requirements, PM_{2.5}, PM₁₀, and Sulfur Dioxide*, require offsets of emissions from new or modified sources of precursor organic compounds (POC), NO_x, PM_{2.5}, PM₁₀, and SO₂. Offsets are required for facilities that have a Potential to Emit (PTE) of more than 10 tons per year of POC or NO_x, or more than 100 tons per year of PM_{2.5}, PM₁₀, or SO₂. Per BAAQMD policy "Calculating Potential to Emit for Emergency Backup Power to Generators," published on June 3, 2019, once offset applicability has been determined using proposed non-emergency operation hours (i.e. 50 hours per year) and 100 hours of emergency use per year, the amount of offsets required is calculated using only non-emergency operation hours. As such, 50 hours per year for testing and maintenance operations is used to determine the amount of offsets required. The Facility's NO_x PTE at full build-out will be greater than 35 tons per year, and as such, the Applicant will provide BAAQMD with NO_x offsets prior to the issuance of the Facility's PTO.⁴ The exact amount of offsets to be provided will be determined during BAAQMD's permitting process.

BAAQMD Rule 2-5 applies to new or modified sources of TACs for which an application is submitted on or after July 1, 2005. All TAC emissions from new and modified sources are subject to a health risk assessment (HRA) if emissions of any individual TAC exceed the trigger thresholds specified in Table 2-5-1 of Rule 2-5. The Project is a source of DPM, a TAC which has a chronic trigger level of 0.26 pounds per year.⁵ If a project's DPM PTE is greater than the chronic trigger level limit, the project is subject to the risk assessment requirements of Rule 2-5. Rule 2-5 requires Best Available Control Technology for Toxics (TBACT) for any new or modified source of TACs with a cancer risk greater than 1.0 in one million or a chronic hazard index greater than 0.20. According to the BAAQMD BACT/TBACT Workbook Document Number 96.1.3 (12/22/2010), TBACT is an engine certified to meet the PM₁₀ emission limit of 0.15 g/bhp-hr. The proposed generators are certified Tier 2 or higher engines and will meet the TBACT requirements of Rule 2-5. Rule 2-5 also requires that a project risk does not exceed a cancer risk of 10.0 in one million, a chronic hazard index of 1.0, or an acute hazard index of 1.0, consistent with BAAQMD's CEQA significance thresholds.

BAAQMD Rule 2-6, *Major Facility Review*, implements permitting requirements of Title V of the Clean Air Act, and is applicable to major facilities and other facilities designated as requiring a Title V permit. Per Section 2-6-212, a major facility has the potential to emit 100 tons per year or more of any regulated air pollutant, 10 tons per year or more of a single hazardous air pollutant, or 25 tons per year or more of a combination of HAPs. Alternatively, a facility may elect to implement enforceable permit conditions such that its PTE is limited to below the major facility thresholds, in which case the facility is considered a synthetic minor facility. The applicability of Rule 2-6 will be evaluated during BAAQMD's permitting process.

BAAQMD Rule 9-8, *Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines*, limits emissions and operating hours and outlines recordkeeping requirements for emergency engines rated greater than 50 bhp.

Santa Clara County General Plan. The Health and Safety Chapter of the *Santa Clara County General Plan, 1995-2010* (Santa Clara County, 1994) was amended in 2015. The *Health Element of the Santa Clara*

⁴ Generators installed and offset prior to the Facility NO_x PTE reaching 35 tpy are required to provide offsets at a 1:1 ratio. Once the Facility NO_x PTE reaches 35 tpy, offsets are required at a 1:1.15 ratio.

⁵ There is no acute trigger level for DPM.

County General Plan has been prepared as a new element, incorporating and updating certain existing subject matter and policies from the existing Health and Safety Chapters (Santa Clara County, 2015). The new Health Element includes strategies and policies that are intended to convey a comprehensive approach for improving air quality, protecting the climate, and protecting public health. Air Quality and Climate Change Strategy #1 is to “[s]trive for air quality improvement through regional and local land use, transportation, and air quality planning.” Listed below are the air quality-related policies related to Strategy #1 with potential relevance to the proposed Project.

- ▶ HE-G.1 Air quality environmental review. Continue to utilize and comply with the Air District’s project- and plan-level thresholds of significance for air pollutants and greenhouse gas emissions.
- ▶ HE-G.2 Coordination with regional agencies. Coordinate with the Air District to promote and implement stationary and area source emission measures.
- ▶ HE-G.3 Fleet upgrades. Promote Air District mobile source measures to reduce emissions by accelerating the replacement of older, dirtier vehicles and equipment, and by expanding the use of zero-emission and plug-in vehicles.
- ▶ HE-G.4 Off-road sources. Encourage mobile source emission reduction from off-road equipment such as construction, farming, lawn and garden, and recreational vehicles by retrofitting, retiring, and replacing equipment and by using alternative fuel vehicles.
- ▶ HE-G.5 GHG reduction. Support efforts to reduce GHG emissions from mobile sources, such as reducing vehicle trips, vehicle use, vehicle miles traveled (VMT), vehicle idling, and traffic congestion. These efforts may include improved transit service, better roadway system efficiency, state-of-the-art signal timing, and Intelligent Transportation Systems (ITS), transportation demand management, parking and roadway pricing strategies, and growth management measures.
- ▶ HE-G.7 Sensitive receptor uses. Promote measures to protect sensitive receptor uses, such as residential areas, schools, day care centers, recreational playfields and trails, and medical facilities by locating uses away from major roadways and stationary area sources of pollution, where possible, or incorporating feasible, effective mitigation measures.
- ▶ HE-G.9 Health infill development. Promote measures and mitigations for infill development to protect residents from air and noise pollution, such as more stringent building performance standards, proper siting criteria, development and environmental review processes, and enhanced air filtration.
- ▶ HE-G.12 Energy technologies. Support regional and local initiatives that promote integrated building systems, distributed generation, demand response programs, smart grid infrastructure, energy storage and backup, and electric transportation infrastructure.

Gilroy General Plan. The Community Resources and Potential Hazards chapter of the *Gilroy General Plan* adopted in June 2002 addresses the city’s goals, policies, and implementing actions for air quality (City of Gilroy, 2017). Listed below are the air quality-related policies with potential relevance to the proposed Project:

- ▶ Policy 21.01 Sensitive Receptors. Use land use planning and project siting to separate air pollution sources from residential areas and other “sensitive receptors” (such as schools, hospitals, and nursing homes), that would be adversely affected by the close proximity to air pollutants.
- ▶ Policy 21.04 Regional Cooperation. Cooperate with the [BAAQMD] and other agencies that deal with issues related to air quality (e.g. the Metropolitan Transportation Commission and the Association of Bay Area Governments) to develop and implement regional air quality strategies. Also, support subregional coordination with other cities, counties, and agencies in Santa Clara Valley and adjacent areas to address land use, jobs/housing balance, and transportation planning issues as a means of improving air quality.
- ▶ Policy 21.05 Air Quality Impacts from Construction Activity. Reduce the air quality impacts associated with construction activity by reducing the exhaust emissions through appropriate mitigation actions.

3.3.5 Regulatory Authority for Odors and Nuisances

Although offensive odors from stationary sources rarely cause any physical harm, they remain unpleasant and can lead to public distress, generating citizen complaints to local governments. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the distance from and sensitivity of receptors. The BAAQMD's CEQA Air Quality Guidelines recommend that odor impacts be considered for any proposed new odor sources located near existing receptors, as well as any new sensitive receptors located near existing odor sources (BAAQMD, 2017b).

3.3.6 Toxic Air Contaminants Regulations – Air Quality

TACs are regulated under both state and federal laws. Federal laws use the term HAPs to refer to similar types of compounds that are referred to as TACs under state law, however, there are some differences between HAPs and TACs. Both terms encompass essentially the same compounds. Under the 1990 Clean Air Act Amendments, 189 substances were regulated as HAPs. Since 1990, the U.S. EPA has modified the list through rulemaking to include 187 HAPs.

AB 2588. With respect to state law, in 1983 the California legislature adopted AB 1807, which establishes a process for identifying TACs and provides the authority for developing retrofit air toxics control measures on a statewide basis. Air toxics in California also may be regulated under the Air Toxics “Hot Spots” Information and Assessment Act of 1987, or AB 2588.

Under AB 2588, TACs from individual facilities must be quantified and reported to the local air pollution control agency or air quality management district. The facilities are then prioritized by the local agencies based on the quantity and toxicity of these emissions, and on their proximity to areas where the public may be exposed. In establishing priorities, the air districts are to consider the potency, toxicity, quantity, and volume of hazardous materials released from the facility; the proximity of the facility to potential receptors; and any other factors that the air district determines may indicate that the facility may pose a significant risk. High priority facilities are required to perform an HRA, and, if specific risk thresholds are exceeded, they are required to communicate the results to the public through notices and public meetings. Depending on the health risk contributions, emitting facilities can be required to implement varying levels of risk reduction measures. CARB identified approximately 500 TACs, including the 187 federal HAPs, under AB 2588.⁶

AB 617. In July 2017, AB 617 was approved by the Governor. AB617 aims to reduce criteria pollutant and toxic air contaminant emissions within the state of California. The bill presents four main elements in order to achieve this goal:

- ▶ Monitoring
 - Identification and recommendation of communities that have a high cumulative exposure burden
 - Establishment of a statewide monitoring plan
 - Set-up and operation of District and Community networks including public availability/presentation of statewide data
- ▶ Community Emission Reduction Plans
 - For identified communities and integration with the statewide strategy for AB617 implementation
 - Potentially resulting in the development of District Community Emission Reduction Plans
 - Potentially resulting in the development of state and District emission reduction strategies
- ▶ Best Available Retrofit Control Technology (BARCT)

⁶ CARB has proposed the addition of 900 new substances and 3 broad functional groups which will be considered for adoption during the CARB Board meeting scheduled for November 2020.

- Development of a Statewide BACT/BARCT clearinghouse
- BARCT implementation and the adoption of an expedited timeline for select source categories
- ▶ Emission Reporting
 - Development of a Uniform Statewide Reporting platform
 - Establishment of a statewide pollution mapping tool

BAAQMD is responsible for administering federal and state regulations related to TACs in the Bay Area Air Basin. Under federal law, these regulations include NESHAPs and Maximum Achievable Control Technology (MACT) for affected sources. BAAQMD also administers the state regulations AB 1807 and AB 2588, which were discussed above. In addition, the agency requires that new or modified facilities that emit TACs perform air toxics screening analyses as part of the permit application. TAC emissions from new and modified sources are limited through the air toxics new source review program, which superseded the BAAQMD Risk Management Policy, in BAAQMD Regulation 2, Rule 5 for New Source Review of Toxic Air Contaminants. Sources must use the TBACT if health risk modeling identifies an individual source cancer risk of greater than 1 in a million or a chronic hazard index greater than 0.20.

Specific TAC regulations and considerations relevant to the Project are described below.

Diesel Risk Reduction Plan. In August 1998, CARB identified particulate emissions from diesel-fueled engines (DPM) as TACs. CARB developed the *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles* and the *Risk Management Guidance for the Permitting of New Stationary Diesel-Fueled Engines* (CARB, 2000a and 2000b). The goal of these programs is to reduce DPM emissions and the associated health risk by 75 percent in 2010 and by 85 percent in 2020 and to implement regulations that include increasingly stringent emissions standards for on-road diesel trucks and buses, off-road diesel vehicles and equipment, and stationary diesel engines.

In 2001, the U.S. EPA promulgated regulations 40 CFR Parts 69, 80, and 86 (U.S. EPA, 2001) requiring that the sulfur content in motor on-road vehicle diesel fuel be reduced to less than 15 ppm as of June 1, 2006. The U.S. EPA also finalized a comprehensive national emissions control program, the 2007 Heavy-duty Highway Diesel Program (also known as the HD 2007 Program), which regulates highway heavy-duty vehicles and diesel fuel as a single system. Under the HD 2007 program, the U.S. EPA established new emission standards that would significantly reduce PM and NO_x from highway heavy-duty vehicles by the time the current heavy-duty vehicle fleet has been completely replaced in 2030.

The U.S. EPA also promulgated new emission standards for nonroad diesel engines and sulfur reductions in nonroad diesel fuel that would dramatically reduce emissions attributed to nonroad diesel engines. Similar but more stringent standards have been established by CARB. This affects emissions from construction equipment, locomotives, and marine diesel equipment and vehicles. The general objective is to reduce PM emissions from diesel vehicles to levels of below 0.01 grams per brake horsepower-hour (g/bhp-hr) beginning with 2007 model year engines.

3.4 Existing Policies and Regulations – GHGs

3.4.1 International Regulation – GHG

Intergovernmental Panel on Climate Change (IPCC). In 1988, the United Nations created the IPCC to provide independent scientific information regarding climate change to policymakers. The IPCC does not conduct research itself, but rather compiles information from a variety of sources into reports regarding climate change and its impacts. The IPCC has thereafter periodically released reports on climate change,

and in 2018 released its Global Warming of 1.5 degrees C, which concluded that “[w]arming of the climate system is unequivocal,” and that “[a]nthropogenic GHG emissions ... are extremely likely to have been the dominant cause of the observed warming since the mid-20th century” (IPCC, 2018).

United Nations Framework Convention on Climate Change. On March 21, 1994, the United States joined numerous countries around the world in signing the United Nations Framework Convention on Climate Change (UNFCCC). Under the UNFCCC, governments gather and share information on GHGs, national policies, and best practices; launch national strategies for addressing GHGs and adapting to expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

Kyoto Protocol. The Kyoto Protocol is an international agreement linked to the UNFCCC (discussed above). The major feature of the Kyoto Protocol is that it sets binding targets for 37 industrialized countries and the European community for reducing GHGs an average of 5% against 1990 levels over the five-year period from 2008–2012. Whereas the UNFCCC only encouraged industrialized countries to stabilize emissions, the Protocol commits them to do so. Developed countries have contributed more emissions over the last 150 years than underdeveloped countries; therefore, the Protocol places a heavier burden on developed nations under the principle of “common but differentiated responsibilities.” The United States has not entered into force of the Kyoto Protocol.

Paris Agreement. In April 2015, representatives from 196 state parties signed the Paris Agreement, an agreement within the UNFCCC, dealing with GHG emissions mitigation, adaptation, and finance with the goals of keeping the global average temperature increase below 2 °C (3.6 °F) above pre-industrial levels, and ideally, below 1.5 °C (2.7 °F) recognizing that this would substantially reduce the risks and impacts of climate change. Each signatory country must plan, implement, and regularly report on the actions taken to mitigate climate change. While there are no overarching emissions targets or deadlines, each self-determined target should go beyond previously set targets. In June 2017, the U.S. announced its intention to withdraw from the agreement; however, the earliest effective date of withdrawal for the U.S. is November 2020. In response to this announcement, the United States Climate Alliance was formed by governors committing to uphold the objectives of the Paris Agreement as applicable to their states. California is a member of the United States Climate Alliance.

3.4.2 Federal Regulations and Standards – GHG

Federal Regulation of Climate Change. The United States historically has had a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the U.S. Supreme Court ruled that the U.S. EPA has the authority to regulate CO₂ emissions under the CAA. The U.S. EPA's GHG Tailoring Rule, issued in May 2010, established initial emission thresholds for Prevention of Significant Deterioration (PSD) and Title V permitting based on CO₂e emissions. This rule was amended in 2012, then in 2014, the U.S. Supreme Court decided that EPA may not treat GHGs as an air pollutant for purposes of determining whether a source is a major source required to obtain a PSD or Title V permit. However, PSD permits that are otherwise required (based on emissions of other non-GHG regulated pollutants) may continue to limit GHG emissions through BACT requirements.

During the Obama administration, new NSPS were implemented limiting emissions from methane and the Clean Power Plan was established requiring states to limit GHG emissions from electricity generation. These GHG-related rules have experienced significant push-back and litigation, and in June 2019, the Clean Power Plan was replaced by the less-stringent Affordable Clean Energy rule.

Consolidated Appropriations Act of 2008 - Mandatory Reporting of GHG. The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the U.S. EPA issued the Final Mandatory Reporting of GHGs rule. The rule requires reporting of GHG emissions from large sources and suppliers in the United States and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions are required to submit annual reports to the U.S. EPA.

3.4.3 State Regulations and Standards – GHG

Executive Order S-3-05. Executive Order S-3-05 was signed by the Governor in 2005 proclaiming California is vulnerable to the impacts of climate change. It states that increased temperatures could reduce the Sierra Nevada's snowpack, worsen California's air quality problems, and potentially cause a rise in sea levels. The Executive Order establishes total GHG emission targets that require reducing GHG emissions to the 2000 level by 2010, the 1990 level by 2020, and to 80% below the 1990 level by 2050. The 2050 reduction goal represents what scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be an aggressive, but achievable, midterm target.

AB 32. California's major initiative for reducing GHG emissions is outlined in AB 32, the California Global Warming Solutions Act of 2006, passed by the Legislature on August 31, 2006. The bill requires CARB to do the following (CARB, 2018b):

- ▶ "Prepare and approve a Scoping Plan for achieving the maximum technologically feasible and cost-effective reductions in GHG emissions from sources or categories of sources of GHGs by 2020, and update the Scoping Plan every five years.
- ▶ Maintain and continue reductions in emissions of GHG beyond 2020.
- ▶ Identify the statewide level of GHG emissions in 1990 to serve as the emissions limit to be achieved by 2020.
- ▶ Identify and adopt regulations for discrete early actions that could be enforceable on or before January 1, 2010.
- ▶ Adopt a regulation that establishes a system of market-based declining annual aggregate emission limits for sources or categories of sources that emit GHG emissions.
- ▶ Convene an Environmental Justice Advisory Committee to advise the Board in developing and updating the Scoping Plan and any other pertinent matter in implementing AB 32.
- ▶ Appoint an Economic and Technology Advancement Advisory Committee to provide recommendations for technologies, research and GHG emission reduction measures."

California's Cap and Trade program was launched in 2013, and in 2016, California achieved the 2020 GHG reduction target.

Executive Order B-30-15. The 2020 GHG emission reduction goal was achieved ahead of schedule leading to the issuance of Executive Order B-30-15 in 2015 which establishes a GHG "reduction target of 40% below 1990 levels by 2030 – the most aggressive benchmark enacted by any government in North America to reduce dangerous carbon emissions over the next decade and a half" (State of California, 2015). Executive Order B-30-15 was issued in support of the goals outlined in Executive Order S-3-05. The 2017 Scoping Plan, discussed below, outlines the main state strategies for meeting the 2030 deadline and to reduce GHGs that contribute to global climate change.

2017 Scoping Plan. CARB adopted the initial Climate Change Scoping Plan (Scoping Plan) in 2008, which outlines actions recommended to obtain the AB 32 goals. The Scoping Plan called for an "ambitious but

achievable" reduction in California's GHG emissions, cutting approximately 30% from business-as-usual emission levels projected for 2020, or about 10% from today's levels. AB 32 requires that CARB update the scoping plan at least every 5 years. The first update to the Climate Change Scoping Plan was released on May 15, 2014, and built upon the initial Scoping Plan with new recommendations. Shortly after California met the 2020 GHG reduction target, the 2017 Scoping Plan was developed to identify new policies and actions to meet the 2030 GHG reduction goals (outlined in Executive Order B-30-15), and to address international goals.

The 2017 Scoping Plan contains the following emission reduction measures in addition to the previous scoping plans to reduce the state's emissions (CARB, 2017):

1. *Enhance Industrial Efficiency & Competitiveness.* Implement policies and measures to continue reducing GHG, criteria, and toxic air emissions from industrial sources. Improve productivity and strengthen economic competitiveness, and prioritize goods that have low carbon footprints. Cut energy costs and GHG emissions by transitioning to efficiency hydrofluorocarbon alternatives.
2. *Prioritize Transportation Sustainability.* Invest in zero-emission vehicles and infrastructure, land use planning, and active transportation options such as walking and biking. Promote markets to favor electric cars, trucks, buses, and equipment and increasing the use of low carbon fuels where zero-emission option are not yet available.
3. *Continue Leading on Clean Energy.* Integrate at least 50 percent renewables as the primary source of power, make net zero energy buildings a standard, implement Existing Buildings Energy Efficiency Action Plan, reduce the use of heating fuels, and minimize fugitive methane leaks, prioritize natural gas efficiency and demand reduction, and enabling cost-effective access to renewable gas.
4. *Put Waste Resources to Beneficial Use.* Develop and implement programs to divert organic waste from landfills, reducing methane emissions. Reduce packaging and identify sustainable funding to support waste management programs.
5. *Support Resilient Agricultural and Rural Economies and Natural and Working Lands.* Protect and enhance natural and working lands to transform the lands into a net carbon sink. Develop and implement the Natural and Working Lands Implementation Plan to maintain those lands as a net carbon sink. Monitor progress by completing the Natural and Working Lands Inventory.
6. *Secure California's Water Supplies.* Develop a voluntary registry for GHG emissions from energy use associated with water. Continue to increase the use of renewable energy to operate the State Water Project.
7. *Cleaning the Air and Public Health.* Implement freight and mobile source strategies to reduce emissions and support the efforts of AB 617.
8. *Successful Example of Carbon Pricing and Investment.* Support the Cap and Trade program and continue reinvesting a legislatively-determined amount of funds to benefit disadvantaged and low-income communities as well as in clean technologies. Continue to grow the program to link to and set an example for similar programs world-wide.
9. *Fostering Global Action.* Participate in global conferences and initiatives to promote knowledge sharing and global GHG reductions.
10. *Unleashing the California Spirit.* Invest in training and education for a lower carbon economy workforce. Develop a long-term funding plan to inform future appropriations necessary to

achieve our long-term targets while sending clear market and workforce development signals. Promote innovation and inclusion.

SB 375. Signed into law on October 1, 2008, SB 375 provides emissions-reduction goals around which regions can plan; integrates disjointed planning activities; and provides incentives for local governments and developers to implement “smart growth” planning and development strategies, which are to include reductions in average VMT, commuting distances, and criteria and GHG air pollutant emissions. Cities located within these regions are then required, in turn, to update their General Plans in accordance with the regional plans. SB 375 has three major components:

- ▶ Using the regional transportation planning process to achieve reductions in GHG emissions consistent with AB 32’s goals;
- ▶ Offering CEQA incentives to encourage projects that are consistent with a regional plan that achieves GHG emission reductions; and
- ▶ Coordinating the regional housing needs allocation process with the regional transportation process while maintaining local authority over land-use decisions.

SB 375 requires each Metropolitan Planning Organization (MPO) to include a Sustainable Communities Strategy (SCS) in the regional transportation plan that demonstrates how the region will meet the GHG emission targets and creates CEQA streamlining incentives for projects that are consistent with the regional SCS. The focus of SB 375 is on the location of new residential projects and coordinated transportation planning. Non-compliance with SB 375 will result in transportation funds being withheld from the regional and/or local agency.

AB 398. AB 398, signed in July 2017, aims to reduce GHG emissions within the state of California. The bill outlines new requirements for California’s GHG Cap-and-Trade program that includes, among others, extending the program through 2030, limiting the use of offsets, and requiring CARB to establish a price ceiling for GHG allowances.

SB 1368. In September 2006, the Governor signed Senate Bill 1368, which calls for the adoption of a GHG performance standard for in-state and imported electricity generators to mitigate climate change. On January 25, 2007, the CPUC adopted an interim GHG emissions performance standard. This standard is a facility-based emissions standard requiring all new long-term commitments for base load generation to serve California consumers with power plants that have emissions no greater than those from a combined cycle gas turbine plant. The established level is 1,100 pounds of CO₂ per megawatt-hour.

SB 743. SB 743 of 2013 amended CEQA to change the conventional approaches to transportation impact analysis which focus on vehicle level of service (LOS) and vehicle delay. SB 743 changes the focus of transportation impact analysis in CEQA from measuring impacts to drivers, to measuring the impact of driving on the environment, including GHG emissions. SB 743 amendments to CEQA require that the LOS metric be replaced with a metric considering VMT. This shift in transportation impact focus is expected to better align transportation impact analysis and mitigation outcomes with the State’s goals to reduce GHG emissions, encourage infill development, and improve public health through more active transportation. Amendments to the CEQA Guidelines were approved in December 2018 and included the incorporation of changes to address SB 743. Guidelines, Section 15064.3(c) states, “A lead agency may elect to be governed by the provisions of this section immediately. Beginning on July 1, 2020, the provisions of this section shall apply statewide.”

Executive Order B-55-18. Executive order B-55-18 was signed by the Governor in 2018 committing state resources to achieving carbon neutrality in California. It states California’s intention is “to achieve carbon

neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. This goal is in addition to the existing statewide targets of reducing greenhouse gas emissions” (State of California, 2018). The policies and measures taken in support of achieving carbon neutrality should improve air quality, support the health and economic resiliency of communities (particularly low-income and disadvantaged), support climate adaption and native biodiversity, and conserve the state’s water supply and water quality.

3.4.4 Regional Policies – GHG

BAAQMD 2017 Clean Air Plan. The BAAQMD 2017 Clean Air Plan includes climate protection as a primary goal and specifies the GHG-related priorities listed below.

- ▶ Reduce emissions of “super-GHGs” such as CH₄, black carbon, and fluorinated gases
- ▶ Decrease demand for fossil fuels (gasoline, diesel, and natural gas)
 - Increase the efficiency of industrial processes, energy, and transportation systems
 - Reduce demand for vehicle travel, and high-carbon goods and services
- ▶ Decarbonize our energy system
 - Make the electricity supply carbon-free
 - Electrify the transportation and building sectors

The Clean Air Plan lays the groundwork for a long-term effort to reduce Bay Area GHG emissions by 40% below 1990 levels by 2030 and 80% below 1990 levels by 2050, consistent with the state GHG reduction targets. The Plan includes a comprehensive control strategy for GHGs that the District intends to implement over the next three to five years.

Santa Clara County Climate Action Plan. Adopted by the Board of Supervisors in December 2013, the Santa Clara County Climate Action Plan (CAP) focuses on County operations, facilities, and employee actions to reduce greenhouse gas emissions, energy and water consumption, solid waste, and fuel consumption. The Plan focuses on steps needed to reach a 15% GHG reduction goal by 2020 and also identifies policies and actions needed to reduce emissions beyond 2020.

Along with the municipal climate action plan, the Silicon Valley 2.0 project is a countywide effort to minimize the anticipated impacts of climate change and reduce local greenhouse gas emissions. The project uses a risk management framework to evaluate the exposure of populations to climate impacts, examines the potential consequences of this exposure, and develops adaptation strategies that improve community resilience.

4. IMPACTS ASSESSMENT

4.1 Significance Criteria

Appendix G of the California state CEQA Guidelines recognizes the following significance criteria related to air quality and GHG emissions (California Natural Resources Agency, 2019). Based on the criteria, potential impacts to air quality would be significant if the proposed Project would:

- ▶ Conflict with or obstruct implementation of the applicable air quality plan;
- ▶ Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard;
- ▶ Expose sensitive receptors to substantial pollutant concentrations; or
- ▶ Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The Project would cause adverse impacts associated with GHG emissions if it would:

- ▶ Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- ▶ Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

The CEQA Air Quality Guidelines (BAAQMD, 2017b) contain numerical thresholds of significance that are designed to implement the above general criteria for air quality and GHG impacts in the Bay Area Air Basin. The BAAQMD thresholds of significance are based on extensive studies, and serve as a means of translating the general standards set forth in Appendix G into quantitative thresholds against which a proposed project's air pollutant and GHG emissions can be measured (BAAQMD, 2017b). Thus, the BAAQMD thresholds of significance are considered appropriate for use in evaluating the proposed Project.

Table 4-1 presents the BAAQMD thresholds of significance used as applicable in this AQIA for air quality and GHG emissions associated with the proposed Project. The table presents thresholds for construction-related and operational-related emissions. The applicability and use of the specific project-level thresholds for evaluation of the proposed Project is explained in the discussion of each impact in Section 4.2 through Section 4.7 below.

Table 4-1: BAAQMD Air Quality CEQA Thresholds of Significance

Pollutant/Criteria	Construction-Related	Operational-Related ^a
ROG	54 lb/day	54 lb/day; 10 tpy
NO_x	54 lb/day	54 lb/day; 10 tpy
PM₁₀	82 lb/day (exhaust)	82 lb/day; 15 tpy
PM_{2.5}	54 lb/day (exhaust)	54 lb/day; 10 tpy
PM₁₀ /PM_{2.5} (Fugitive Dust)	Best Management Practices	None
Local CO	None	9.0 ppm (8-hour average), 20.0 ppm (1-hour average) OR meet screening criteria: 1. Consistent with applicable congestion management plan 2. Not increase intersection volumes to more than 44,000 vehicle per hour 3. Not increase intersection volumes to more than 24,000 where mixing is substantially limited
GHGs –Stationary Sources	None	10,000 MT CO ₂ e/yr
Risk and Hazards for new sources and receptors (Individual Project)	Same as Operational Thresholds	Compliance with Qualified Community Risk Reduction Plan OR Increased cancer risk of >10.0 in a million Increased non-cancer risk of > 1.0 Hazard Index (Chronic or Acute) Ambient PM _{2.5} increase: > 0.3 µg/m ³ annual average
Risk and Hazards for new sources and receptors (Cumulative Threshold)	Same as Operational Thresholds	Compliance with Qualified Community Risk Reduction Plan OR Cancer: > 100 in a million (from all local sources) Non-cancer: > 10.0 Hazard Index (from all local sources) (Chronic) PM _{2.5} : > 0.8 µg/m ³ annual average (from all local sources)
Accidental Release of Acutely Hazardous Air Pollutants	None	Storage or use of acutely hazardous materials locating near receptors or new receptors locating near stored or used acutely hazardous materials considered significant
Odors	None	5 confirmed complaints per year averaged over 3 years

Source: BAAQMD, 2017b

Notes:

- a. BAAQMD construction-related thresholds and operational-related thresholds that are not applicable to the Project are not listed. The daily emission thresholds reflect average daily emissions values. The annual emission thresholds reflect maximum annual emissions values.

4.2 Project Emissions

4.2.1 Project Construction Emissions

The proposed Project involves two phases that include construction activities. Construction emissions from the construction of the GDC will result from ground preparation, grading activities, building erection, parking lot construction activities, use of onsite construction equipment, and architectural coating. Construction emissions from the GBGF are included in the GDC construction emission calculations. GBGF offsite construction emissions will result primarily from material transport to and from the site, material placement in the generation yard, and worker travel. Table 4-2 summarizes the equipment used for construction activities.

Table 4-2: Construction Equipment

Phase Name	Off Road Equipment Type	Off Road Equipment Unit Amount	Horse-power	Load Factor
Site and Building #1 – Site Preparation	Excavators	4	158	0.38
	Scrapers	4	367	0.48
	Tractors/Loaders/Backhoes	4	97	0.37
Site and Building #1 – Grading	Excavators	3	158	0.38
	Graders	3	187	0.41
	Rollers	3	80	0.38
	Rubber Tired Dozers	3	247	0.40
	Scrapers	3	367	0.48
	Tractors/Loaders/Backhoes	3	97	0.37
Site and Building #1 – Foundation	Bore/Drill Rigs	4	221	0.50
	Cement and Mortar Mixers	4	9	0.56
	Excavators	3	158	0.38
	Other Construction Equipment	4	172	0.42
	Pumps	4	84	0.74
	Tractors/Loaders/Backhoes	3	97	0.37
	Cement and Mortar Mixers	4	9	0.56
Site and Building #1 – Structural/Building Exterior/Roof	Cranes	2	231	0.29
	Forklifts	6	89	0.20
	Generator Sets	2	84	0.74
	Other Construction Equipment	4	172	0.42
	Pumps	4	84	0.74
	Tractors/Loaders/Backhoes	1	97	0.37
	Welders	4	46	0.45
	Cranes	24	231	0.29
Site and Building #1 – ROMP01-ROMP12	Forklifts	48	89	0.20
	Generator Sets	24	84	0.74
	Pressure Washers	24	13	0.30
	Sweepers/Scrubbers	12	64	0.46

Phase Name	Off Road Equipment Type	Off Road Equipment Unit Amount	Horse-power	Load Factor
	Welders	36	46	0.45
Site and Building #1 – Paving	Excavators	2	158	0.38
	Graders	2	187	0.41
	Pavers	2	130	0.42
	Paving Equipment	2	132	0.36
	Plate Compactors	2	8	0.43
	Pressure Washers	2	13	0.30
	Rollers	2	80	0.38
	Rubber Tired Dozers	2	247	0.40
	Scrapers	2	367	0.48
	Tractors/Loaders/Backhoes	2	97	0.37
Site and Building #1 – ROMP01-ROMP12 Architectural Coating	Air Compressors	12	78	0.48
Site and Building #2 – Site Preparation	Excavators	4	158	0.38
	Scrapers	4	367	0.48
	Tractors/Loaders/Backhoes	4	97	0.37
Site and Building #2 – Grading	Excavators	3	158	0.38
	Graders	3	187	0.41
	Rollers	3	80	0.38
	Rubber Tired Dozers	3	247	0.40
	Scrapers	3	367	0.48
	Tractors/Loaders/Backhoes	3	97	0.37
Site and Building #2 – Foundation	Bore/Drill Rigs	4	221	0.50
	Cement and Mortar Mixers	4	9	0.56
	Excavators	3	158	0.38
	Other Construction Equipment	4	172	0.42
	Pumps	4	84	0.74
	Tractors/Loaders/Backhoes	3	97	0.37
Site and Building #2 – Structural/Building Exterior/Roof	Cement and Mortar Mixers	4	9	0.56
	Cranes	2	231	0.29
	Forklifts	6	89	0.20
	Generator Sets	2	84	0.74
	Other Construction Equipment	4	172	0.42
	Pumps	4	84	0.74
	Tractors/Loaders/Backhoes	1	97	0.37
	Welders	4	46	0.45
Site and Building #2 – ROMP01-ROMP05, ROMP07-ROMP11	Cranes	20	231	0.29
	Forklifts	40	89	0.20
	Generator Sets	20	84	0.74
	Pressure Washers	20	13	0.30
	Sweepers/Scrubbers	10	64	0.46
	Welders	30	46	0.45

Phase Name	Off Road Equipment Type	Off Road Equipment Unit Amount	Horse-power	Load Factor
Site and Building #2 – Paving	Excavators	2	158	0.38
	Graders	2	187	0.41
	Pavers	2	130	0.42
	Paving Equipment	2	132	0.36
	Plate Compactors	2	8	0.43
	Pressure Washers	2	13	0.30
	Rollers	2	80	0.38
	Rubber Tired Dozers	2	247	0.40
	Scrapers	2	367	0.48
	Tractors/Loaders/Backhoes	2	97	0.37
Site and Building #2 – ROMP01-ROMP05, ROMP07-ROMP11 Architectural Coating	Air Compressors	10	78	0.48

Construction of Phase I to support the first GDC Building is anticipated to begin in April 2021 or May 2021 and take approximately 11 months for exterior construction and approximately 25 months for additional interior construction. Construction of Phase II is conservatively assumed to occur immediately following the completion of the first generation yard and to take approximately 10 months. Additional Phase II interior construction activities are expected to take approximately 30 months following exterior construction. This assumption calculates conservative construction emissions as construction equipment emission profiles generally improve over time.

Construction emissions are computed using CalEEMod, Version 2016.3.2. The construction schedule and projected equipment usage were provided as inputs for the model. Inputs to the CalEEMod model are summarized as follows:

Land Uses. For Phase I, “General Light Industry” 220,500 square feet on 52.47 acres. “Parking Lot” 13,555 square feet on 0.31 acres. “Other Asphalt Surfaces” 140,312 square feet on 3.22 acres. For Phase II, “General Light Industry” 218,000 square feet on 5.00 acres. “Parking Lot” 6,777 square feet on 0.16 acres. “Other Asphalt Surfaces” 70,156 square feet on 1.61 acres.

Demolition. No demolition phase is assumed as the site is an undeveloped parcel that was previously used for agricultural production.

Site Preparation and Grading. The site preparation phase is anticipated to last 11 days as part of Phase I and 11 days as part of Phase II. The Grading and Excavation phase will be 30 days for Phase I and 30 days for Phase II. The modeling accounts for the export of 53,000 cubic yards of soil during Phase I and the import of 210,000 cubic yards of soil split evenly between both phases. The Phase I hauling trips will be phased such that the haul truck that imports material will be the same haul truck that exports material, resulting in 13,125 hauling trips each during Phase I and Phase II per the default average truck capacity of 16 cubic yards.

Building Construction. Building construction is modeled as two phases: exterior building (using the Building Construction phase) and interior construction (using the Building Construction and Architectural Coating phases). Interior building construction will take place in phases following exterior construction. Each interior construction phase is labelled as ROMP, for example, ROMP01 for the first interior building

construction phase. Model inputs for building construction that are modified from CalEEMod defaults are summarized in Table 4-3.

Paving. The paving phase includes the import of 4,274 cubic yards of paving material, modeled as 534 total hauling trips per the default average truck capacity of 16 cubic yards. The paving phase will be split between Phase I and Phase II, with two-thirds of the paving and associated hauling trips occurring during Phase I and one-third of the paving and associated hauling trips occurring during Phase II.

Table 4-3 summarizes significant modifications to default inputs of CalEEMod, which were made based on project-specific representations of construction activity. Appendix A-4 includes a comprehensive list of all modifications to default inputs of CalEEMod.

Table 4-3: CalEEMod Significant Modifications to Default Inputs

CalEEMod Phase Name	Worker Trips (per day)	Vendor Trips (per day)	Total Trips Hauling	Trip Length Hauling (miles)
Site and Building #1 – Grading	Default	Default	13,125	Default
Site and Building #1 - Paving	Default	Default	356	Default
Site and Building #2 – Grading	Default	Default	13,125	Default
Site and Building #2 – Paving	Default	Default	178	Default

Based on an estimated construction start date of April 19, 2021 and an anticipated completion date of April 17, 2024, CalEEMod computes 765 construction days for Phase I. Based on a construction start date of November 13, 2023 and an anticipated completion date of March 3, 2027, CalEEMod computes 842 construction days for Phase II. Total construction emissions from full build out of the Project in comparison to the BAAQMD CEQA thresholds of significance are shown in Table 4-4. Average daily emissions are computed by taking the maximum annual emissions and assuming that construction occurs 260 days of the year, which is a conservative estimate based on the number of working days in a year.

Construction period GHG emissions are also computed using CalEEMod as described above. Table 4-4 includes a summary of the GHG emissions due to construction of the proposed Project.

In addition to mobile equipment and vehicle exhaust, emissions of PM_{2.5} and PM₁₀ due to construction fugitive dust are calculated using CalEEMod and are summarized in Table 4-4. The soil type of dust from material movement is input as a default value of 6.9% material silt content. Material moisture content of dust from material movement is input as a default value of 7.9% for bulldozing and 12% for truck loading. Material moisture content of on-road fugitive dust is input as a default value of 0.5% for all construction activities. Wind speed data is based on project location, CEC Forecasting Climate Zone and information from the Western Regional Climate Center. For the proposed Project, the windspeed is input as 2.2 miles per hour (mph).

Control methods, control efficiencies, and BAAQMD basic construction mitigation measures are included in the CalEEMod calculations as mitigation, further described below as Mitigation Measure AQ-1. CalEEMod inputs associated with BAAQMD basic construction mitigation measures include a Water Exposed Area with a Frequency of two (2) times per day resulting in 55% PM₁₀ and PM_{2.5} reduction and a Vehicle Speed limited to 15 mph.

Table 4-4: Project Construction Emissions Summary and Comparison to Significance Thresholds

Activity	Pollutant								
	Fugitive PM ₁₀ ^a	Fugitive PM _{2.5} ^a	PM ₁₀	PM _{2.5}	CO	NO _x	ROG/VOC	SO ₂	CO _{2e}
	Pounds per Day (lb/day)								
Construction Emissions	4.50	1.43	5.95	3.27	80.0	52.6	47.9	0.17	For this analysis and comparison to thresholds, GHG emissions are calculated on an annual basis only.
Significance Threshold	<i>N/A</i>	<i>N/A</i>	<i>82</i>	<i>54</i>	<i>N/A</i>	<i>54</i>	<i>54</i>	<i>N/A</i>	
Significant Impact?	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	
Activity	Tons per Year (tpy) ^b								Metric Tons per Year (MT/yr)
Construction Emissions	0.59	0.19	0.77	0.43	10.4	6.84	6.22	0.02	1,976
Significance Thresholds^c	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
Significant Impact?	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>N/A</i>

- a. Fugitive emissions will be controlled with best management practices, in accordance with the significance threshold.
- b. Construction emissions represent the maximum mitigated emissions based on 260 total weekdays per year.
- c. There are no annual construction-related thresholds of significance.

Mitigation Measure AQ-1 will reduce construction period NO_x emissions to levels below the BAAQMD thresholds of significance, as addressed in detail below. Appendix A-4 includes the CalEEMod output file that is the basis of the construction emission calculations.

Mitigation Measure AQ-1. Include construction equipment exhaust controls and measures to control dust and exhaust during construction.

During any construction period ground disturbance, the Applicant shall ensure that the project contractor implement measures to control dust and exhaust. Implementation of the measures recommended by BAAQMD in their CEQA Air Quality Guidelines and those listed below would reduce the air quality impacts associated with grading and new construction to a less than significant level. The contractor shall implement the following best management practices that are required of all projects:

Basic Measures

- a. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
 1. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
 2. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
 3. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).
 4. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.

5. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
6. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
7. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. BAAQMD's phone number shall also be visible to ensure compliance with applicable regulations.

Exhaust Control Measures

8. The Applicant shall implement the following measures such that the off-road equipment to be used in the construction project (i.e., owned, leased, and subcontractor vehicles) shall meet the emission values as summarized in Table 4-4 above. Acceptable methods for reducing emissions include the use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, add-on devices such as particulate filters, and/or other options as such become available. The following are examples of feasible methods:
 - a. The following construction equipment used at the site during Phase I and Phase II shall be electric:
 - i. Pressure Washer
 - ii. Welder
 - b. The following construction equipment used at the site during Phase I and Phase II shall meet U.S. EPA emission standards for Tier 3 engines and include particulate matter emissions control equivalent to CARB Level 2 verifiable diesel emission control devices that altogether achieve a 85 percent reduction in particulate matter exhaust:
 - i. Air Compressors
 - ii. Concrete/Industrial Saws
 - iii. Forklifts
 - iv. Generator Sets
 - v. Other Construction Equipment, such as Concrete Vibrators
 - vi. Pavers
 - vii. Pumps
 - viii. Rollers
 - ix. Sweeper/Scrubbers
 - x. Tractors/Loaders/Backhoes
 - c. The following construction equipment used at the site during Phase I shall meet U.S. EPA Tier 4 final emission standards according to one of the following options:
 - i. Option 1: Cranes, Graders, Rubber Tired Dozers, Tractors/Loaders/Backhoes
 - ii. Option 2: Cranes, Graders, Rubber Tired Dozers, Bore/Drill Rigs
 - iii. Option 3: Cranes, Graders, Rubber Tired Dozers, Excavators
 - d. The following construction equipment used at the site during Phase II shall meet U.S. EPA Tier 4 final emission standards:

- i. Cranes
- ii. Scrapers

Effectiveness of Mitigation

The effects of Mitigation Measure AQ-1 were modeled for the proposed Project using CalEEMod and were found to reduce overall NO_x emissions to below the BAAQMD significance thresholds. Therefore, the Applicant proposes to implement Mitigation Measure AQ-1 in the proposed Project.

4.2.2 Operational Emissions Calculation Methodology

This section discusses methods used for calculating emissions associated with the proposed Project operations. An overview is provided below and details for each emission source are provided in Tables 4-5 through 4-6.

Proposed Project Overview. Operational air pollutant and GHG emissions are those that result from operation of the 53 generators for routine non-emergency testing and maintenance purposes, mobile sources such as employee vehicles, and general operation of the GDC buildings.

For the purposes of comparison to the BAAQMD maximum annual emission thresholds of significance, the Project emission calculations assume 50 hours per year per generator for non-emergency operation testing and maintenance operation per Title 17, CCR Section 93115.6(a)(3)(A)(1)(c): ATCM for Stationary CI Engines. For purposes of comparison to the BAAQMD average daily emission thresholds of significance, Project emission calculations conservatively assume 24 hours per day for all critical backup generators combined, 24 hours per day for all life safety generators combined, and 24 hours per day for the security building generator. There are no scenarios such that routine testing or maintenance for an individual generator would require 24 hours of operation in a single day. However, the Applicant has conservatively assumed it is possible that a combination of critical backup generators may be run for up to 24 combined hours in one day for maximum potential daily emission. The actual emissions are anticipated to be much less than what has been provided in this AQIA report

Generator Emissions. The calculation methods utilized for estimating the proposed Project operational emissions are explained in detail in the following paragraphs. Emission factors and calculation methods used to quantify emissions from the proposed Project are based on facility information and data available from generally accepted public sources.

In the proposed Project, the GBGF is equipped with 50 critical backup generators, two life safety generators and one security building generator. The Applicant proposes to limit operation to one generator at a time for routine maintenance and testing activities conducted pursuant to manufacturer specifications. Generator operation for emergency use and emission testing for compliance purposes is not limited. The emission calculations are based on the generator engine horsepower, hours of operation, and EPA family emission factors. The critical backup generators and life safety generators will be equipped with a DPF, for which a control efficiency of 85% is assumed per CARB Executive Order DE-07-001-07. Per this executive order, CARB states that a DPF efficiency of 85% can be applied to emergency standby engines for approved engine models. The DPF for the critical backup generator model and life safety generator model is verified by CARB for model years 1996 through 2019 under Executive Order DE-07-001-07 to reduce emissions of diesel particulate matter by 85% or more (CARB, 2019a). Per correspondence with CARB, it is expected that the DPF will be verified for model year 2020 generators in the forthcoming updated Executive Order⁷. The

⁷ Per email correspondence between John Lee (CARB) and McKay Quinn (Trinity Consultants) dated September 16, 2020.

Executive Order specifically notes the DPF is designed for standby engines, which typically operate at various loads. Furthermore, the Executive Order notes that duty cycles of the standby engines which are approved under the Executive Order are reviewed to ensure compatibility DPF, meaning that the DPF is compatible at all duty loads. The CARB Executive Order and email correspondence with CARB is provided in Appendix A-2.

Emission factors for PM, NO_x, ROG and CO are provided by the EPA engine family certification levels (U.S. EPA, 2020c). The emission factors for SO₂ are calculated with the assumption that the proposed generators will use ultra-low sulfur diesel fuel which contains 0.0015% sulfur as defined under 40 CFR 80, Subpart I. Per this assumption, the SO₂ emission factor from AP-42 Section 3.4, Table 3.4-1 applies.

Operational GHG emissions are calculated using global warming potentials from Subpart A of 40 CFR 98, Table A-1 for CO₂, CH₄ and N₂O. Using emissions factors from Subpart C of 40 CFR 98 Tables C-1 and C-2, the equivalent emissions of CO₂ are calculated for CH₄ and N₂O to determine total potential (CO₂e emissions representing the GHG emissions for all generators (U.S. EPA, 2019a)).⁸

Mobile and Building Operation Emissions. Emissions from mobile sources and general operation of the GDC buildings are calculated using the CalEEMod. Once Phase I and Phase II construction are complete, it is conservatively assumed that the Project may generate approximately 150 round trips daily to the GDC encompassing employee and visitor trips. Additionally, the GDC would generate building operational emissions from the use of consumer products, architectural coating such as interior painting, landscaping work, energy usage, solid waste disposal, and water usage. CalEEMod output files are included in Appendix A-4. The Project will use low VOC cleaning supplies as a design feature to reduce the operational emissions from the use of consumer products.

4.2.3 Project Operational Emissions

Table 4-5 summarizes estimated hourly, daily, and annual emissions for the operational emissions associated with the proposed Project. The hourly emissions are separated by generator type. The daily and annual emissions account for the maximum daily and annual hours of operation, respectively, per generator type and then combined into a total value. The detailed calculations are provided in Appendix A-3. It is expected that the daily and annual operational emissions in Table 4-5 and Table 4-6 encompass emissions from start-up and shutdown conditions, however the manufacturer does not provide speciated emission profiles for specific start-up and shutdown conditions.

⁸ Emission factor for carbon dioxide obtained from 40 CFR 98, Table C-1 to Subpart C for Distillate Fuel Oil No. 2. Emission factors for methane and nitrous oxide obtained from 40 CFR 98, Table C-2 to Subpart C.

Table 4-5: Project Operational Emissions

Pollutant	Hourly Emissions			Daily Emissions	Annual Emissions
	Critical Backup Generators	Life Safety Generators	Security Building Generator	All Generators	All Generators
	Pounds per Hour	Pounds per Hour	Pounds per Hour	Pounds per Day	Tons per Year
PM/PM ₁₀ /PM _{2.5}	0.11	0.02	0.06	4.49	0.14
NO _x	30.3	8.36	1.69	968	38.3
ROG/VOC	1.55	0.16	0.04	42.1	1.95
CO	5.38	1.18	0.51	170	6.79
SO ₂	0.044	0.011	0.01	1.58	0.06
					Metric Tons per Year
CO ₂	For this analysis and comparison to thresholds, GHG emissions are calculated on an annual basis only.				4,491
CH ₄					5
N ₂ O					11
Total CO ₂ e					4,506

Table 4-6: Project Operational Emissions Summary and Comparison to Significance Thresholds

Activity	Pollutant						CO _{2e}
	PM ₁₀	PM _{2.5}	CO	NO _x	ROG/ VOC	SO ₂	
Pounds per Day (lb/day)							
Generator Operational Emissions	4.49	4.49	170	968	42.1	1.58	For this analysis and comparison to thresholds, GHG emissions are calculated on an annual basis only.
Mobile and Building Operational Emissions	1.69	0.63	6.56	4.37	10.7	0.03	
Total Project Operational Emissions	6.19	5.13	176	973	52.7	1.62	
Significance Threshold	82	54	[see note a]	54	54	N/A	
Significant Impact?	No	No	No	Yes	No	No	
Activity	Tons per Year (tpy)						Metric Tons per Year (MT/yr)
Generator Operational Emissions	0.14	0.14	6.79	38.3	1.95	0.06	4,506
Mobile and Building Operational Emissions	0.31	0.12	1.20	0.80	1.94	0.01	2,505
Offsets ^b	--	--	--	-38.3	--	--	--
Total Project Operational Emissions	0.45	0.25	7.99	0.80	3.89	0.06	7,011
Significance Thresholds	15	10	[see note a]	10	10	N/A	10,000
Significant Impact?	No	No	No	No	No	No	No

a. CO is evaluated in this AQIA based on screening criteria identified in Table 4-1 for Local CO.

b. The Applicant will provide offsets at the ratio required per BAAQMD Rule 2-2-302.

The following should be noted with respect to Table 4-6 above:

1. Project average daily and maximum annual NO_x emissions exceed the BAAQMD CEQA thresholds of significance prior to mitigation.
2. Per the ambient air dispersion model and implementation of Mitigation Measure AQ-3 discussed in the Section 4.6 below, the concentration of NO_x as a result of the proposed Project is below the applicable NAAQS and CAAQS.
3. The emissions of NO_x from the generators will be mitigated through procurement of NO_x emission offsets.

With regards to the threshold of significance for local CO, it should be noted that the limited level of offsite mobile source activity during project operations would not increase peak hour intersection level of service and therefore would have an immeasurable effect on local CO levels at nearby roadway intersections. This is

due to the minimal number of employees and visitors at the site. Therefore, local CO emissions are determined to be less than significant and are not further assessed in other sections of this report.

BAAQMD sets an odor threshold of significance where if there are a maximum of five odor complaints per year averaged over three years it will result in significant adverse air quality impacts. The Project is not considered a typical odor producing source such as a wastewater (sewage) treatment plant, landfill, composting facility, refinery, or chemical plant. As such, it is assumed that the Project will not exceed the identified threshold of significance for odor.

Impacts from toxic air contaminants and comparison to the BAAQMD thresholds of significance for Risks and Hazards are discussed in Section 4.7 below.

4.3 Air Dispersion Modeling Methodology

This section presents the modeling methods used prior to evaluating potential air quality impacts and health risks associated with the proposed Project's construction and operational phase. Each model incorporates the same components and inputs described below. AERMOD dispersion modeling is used in this AQIA to perform a load screening analysis and comparison to AAQS standards based on the operation of equipment associated with the Project. The concentrations of pollutants from the proposed Project for both the construction phase and operational phase with the incorporation of background concentration data do not exceed the NAAQS or CAAQS except for PM₁₀ for the 24-hour and annual averaging period. This is addressed further in Section 4.5.4 and Section 4.6.4.

4.3.1 Air Dispersion Model

The air quality analysis is conducted according to U.S. EPA guidelines. The AERMOD model (version 19191) is used with Trinity Consultants' (Trinity's) *BREEZE™ AERMOD Suite* software to calculate ground-level concentrations using the regulatory default parameters, except as otherwise specified in this section. All model runs for this analysis use the BREEZE-developed parallel processing executable. This executable retains all of the U.S. EPA AERMOD code but adds code to allow AERMOD to run on multiple processor cores simultaneously, producing results faster.

4.3.2 Coordinate System

The locations of emission sources and receptors are represented in the Universal Transverse Mercator (UTM) coordinate system using the World Geodetic System (WGS84) projection. The UTM grid divides the world into coordinates that are measured in north meters (measured from the equator) and east meters (measured from the central meridian of a particular zone, which is set at 500 km).

4.3.3 Terrain Elevations

The terrain elevation for each receptor and emission source is determined using the United States Geological Survey (USGS) 1/3 arc-second National Elevation Dataset (NED). The data, obtained from the USGS, have terrain elevations at 10-meter intervals. The terrain height for each individual modeled receptor and emission source is determined by assigning the interpolated height from the digital terrain elevations surrounding each modeled receptor or emission source.

The AERMOD terrain preprocessor, AERMAP (version 18081), is used to compute the hill height scales for each receptor. AERMAP searches all NED data points for the terrain height and location that has the greatest influence on each receptor to determine the hill height scale for that receptor. AERMOD then uses

the hill height scale in order to select the correct critical dividing streamline and concentration algorithm for each receptor.

4.3.4 Meteorological Data

Meteorological data is provided by BAAQMD for the calendar years 2013 through 2017. Surface data is from the San Martin Airport (Station ID 23293; elevation of 85.3 meters); upper air data is from the Oakland International Airport (Station ID 23230). The closest meteorological stations are selected for surface and upper air data. The meteorological data was not processed by BAAQMD with the default `adj_u*` option as site-specific friction data was available and incorporated into the analysis.

4.3.5 Building Downwash

Emission sources' proximity to nearby structures creates the potential for downwash of the emission plume and elevated ground-level concentrations. Off-site buildings to the north and northwest of the facility fence line are conservatively included to account for potential building downwash effects. Off-site building dimensions are estimated using Google Earth measurements. On-site building dimensions were determined from the facility site plans provided in Appendix A-1 and generator enclosure dimensions are determined from the equipment specifications in Appendix A-2.

The Building Profile Input Program (BPIP) with Plume Rise Model Enhancements (PRIME) (version 04274) is used to determine the building downwash characteristics for each stack in 10-degree intervals. The PRIME version of BPIP features enhanced plume dispersion coefficients due to turbulent wake and reduced plume rise caused by a combination of the descending streamlines in the lee of the building and the increased entrainment in the wake.

4.3.6 Receptors

According to U.S. EPA regulations, "ambient air" is defined as the portion of the atmosphere external to the source, to which the public has access. The dispersion modeling concentrations are determined for ambient air locations (i.e., receptors). The Applicant's property boundary is the ambient air boundary for the modeling demonstrations. The following receptors are used to ensure ambient air is protected:

- ▶ Boundary receptors with 20 meter (m) spacing; and
- ▶ A variable density receptor grid with 20 m intervals from the facility center to 500 m, 50 m intervals to 1,000 m, 100 m intervals to 2,000 m, 200 m intervals to 5,000 m, and 500 m intervals to 10,000 m.

For the air dispersion modeling analysis demonstrating compliance with the AAQS, receptors are set at ground level. For the health risk analysis, receptors are set at a flagpole height of 1.5 meters to conservatively represent an average human's breathing height as recommended by the BAAQMD Recommended Methods for Screening and Modeling Local Risks and Hazards (BAAQMD, 2011).

4.4 Generator Load Screening Analysis

The proposed generators will operate during the operational phase of the project at varying loads for purposes of maintenance and testing, and the pollutant emission rates and stack parameters (specifically exhaust temperature and flow rate) will differ for each load. The generators will not all operate simultaneously on a short-term basis for routine maintenance and testing activities conducted pursuant to the manufacturer specifications. Therefore, a load screening analysis was completed to determine the worst-case load and generator for each pollutant and short-term averaging period (e.g. 1-hour, 3-hour, 8-hour, 24-hour) for use in Federal and State AAQS modeling demonstrations. The goal of this analysis is to

identify a single generator operating scenario which conservatively represents any potential combinations of generators which could operate during each pollutant averaging period (e.g. assuming a single worst-case engine operated continuously at a single load over the 8-hour averaging period instead of a more realistic scenario of various engines operating at various loads for short periods of time over the 8-hour averaging period).

The analysis implements one model (herein referred to as the "General Screening Model") for all pollutant and short-term averaging standards except for 1-hour NO₂ which is further discussed in Section 4.4.3. For CO, SO₂, PM₁₀, and PM_{2.5}, the worst-case generator/load combinations are used to develop the AAQS models described further in Section 4.6.

4.4.1 Emission Sources

AERMOD allows for emission units to be represented as point, volume, area, or road sources. The modeled generators are considered point sources and are modeled as such. There are 253 point sources in the General Screening Model, including five point sources for each of the 50 critical backup generators (one source for each load scenario) and one point source for each of the two life safety generators and security generator. The point sources at each critical backup generator represent 10%, 25%, 50%, 75%, and 100% loads using the load-specific stack parameters per manufacturer specification sheets. The point sources at each life safety generator and security generator represent 100% load. Refer to Appendix A-5 for a summary of emission unit modeling parameters. Figure 4-1 demonstrates the emission source layout.

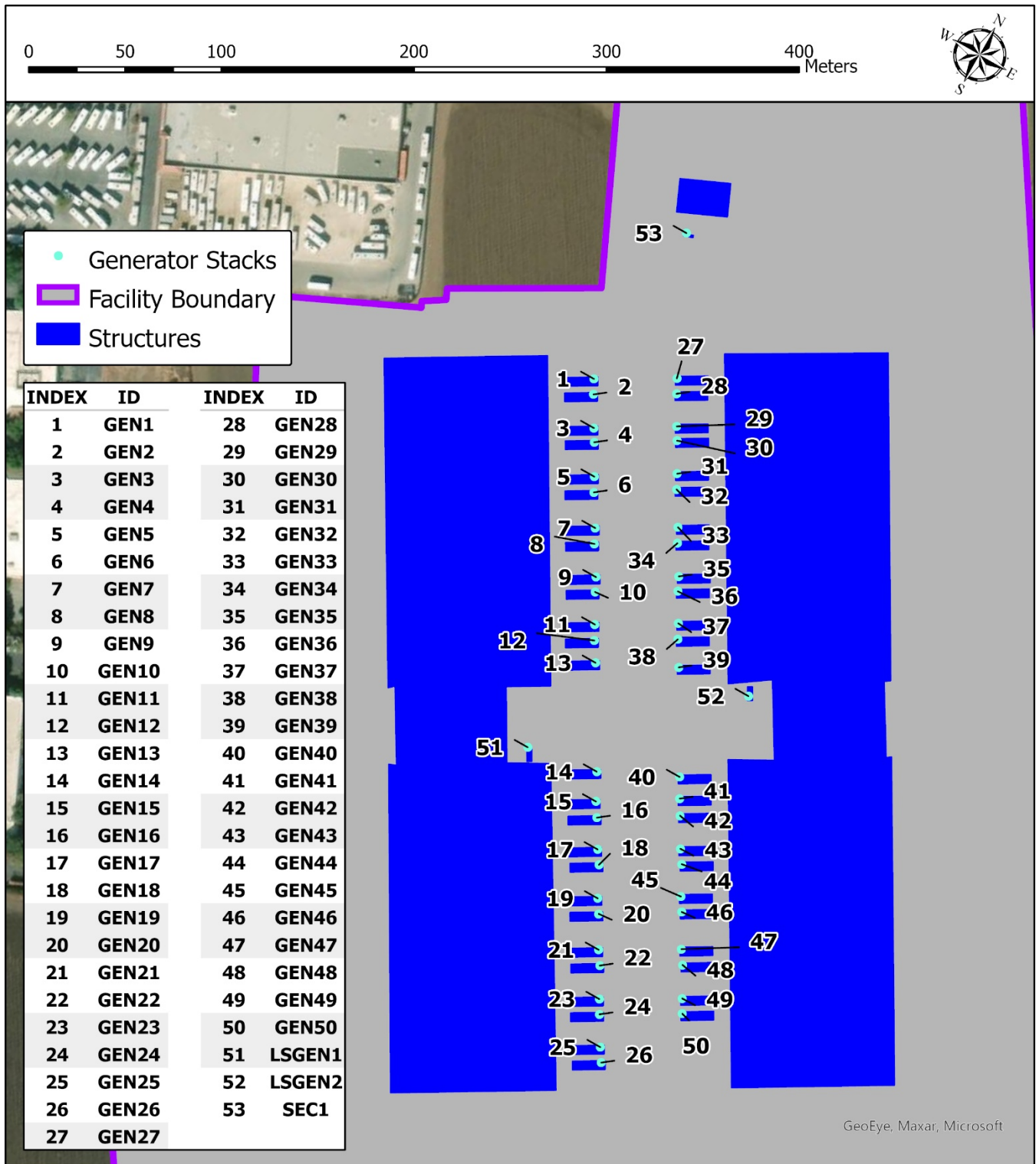


Figure 4-1: Layout of Modeled Emission Sources for the Proposed Project

The stack parameters for each critical backup generator load and the 100% load for the life safety generators and the security generator are summarized in Table 4-7.

Table 4-7: Load Screening Analysis Generator Parameters

Generator Category	Critical Backup Generators					Life Safety Generators	Security Generator
	A	B	C	D	E	F	G
Operating Scenario	A	B	C	D	E	F	G
Load (%)	100	75	50	25	10	100	100
Horsepower (bhp) ^a	3633	2760	1889	1029	497	900	280
Stack temperature (F) ^a	915.2	858.5	850.7	831.1	647.3	994.3	948
Stack flow rate (cfm) ^a	19,579	15,893	12,413	7,845	4,800	4,785.1	1,229.0
Stack velocity (m/s) ^b	45.59	37.01	28.90	18.27	11.18	30.95	24.40
PM Emission Factor (g/bhp-hr) ^c	0.006	0.0045	0.0075	0.015	0.030	0.012	0.089
NO _x Emission Factor (g/bhp-hr) ^c	5.32	4.3	3.12	2.92	5.39	4.21	2.74
ROG Emission Factor (g/bhp-hr) ^c	0.1	0.14	0.22	0.3	0.67	0.082	0.060
CO Emission Factor (g/bhp-hr) ^c	0.42	0.26	0.32	0.82	2.37	0.60	0.82
SO ₂ Emission Factor (g/bhp-hr) ^d	0.0055	0.0055	0.0055	0.0055	0.0055	0.0055	0.0055
PM Short-term Emission Rate (g/s/generator) ^e	6.06E-03	3.45E-03	3.94E-03	4.29E-03	4.14E-03	3.08E-03	6.96E-03
NO _x Short-term Emission Rate (g/s/generator) ^e	5.369	3.297	1.637	0.835	0.744	1.053	0.213
ROG Short-term Emission Rate (g/s/generator) ^e	0.101	0.107	0.115	0.0858	0.0925	0.0205	4.64E-03
CO Short-term Emission Rate (g/s/generator) ^e	0.424	0.199	0.168	0.234	0.327	0.149	0.0638
SO ₂ Short-term Emission Rate (g/s/generator) ^e	5.55E-03	4.22E-03	2.89E-03	1.57E-03	7.60E-04	1.38E-03	4.281E-04

- a. Operating Scenarios A through E represent varying load operation of the critical backup generators. Operating Scenario F represents the life safety generator operation at 100% load. Operating Scenario G represents the security generator operation at 100% load. Critical backup generator operating parameters come from manufacturer performance data sheet titled "Performance Data [EM1894]", dated May 14, 2020, General Performance Data. Life safety generator horsepower comes from the South Coast AQMD Certified ICE-Emergency Generators spreadsheet updated 7/31/2020 for a Caterpillar C-18 600kWe engine (SCAQMD, 2020). Life safety generator operating parameters come from the manufacturer's generator specification sheet. Listed parameters are assumed to correspond to 100% operating load. Security Generator horsepower and operating parameters provided by Caterpillar dealership contact Bob Shepherd (Quinn Group, Inc. Manager) on 9/2/2020 for Perkins/Caterpillar Model 1106D-E70TA (C7.1) for 175 kW generators. Listed parameters are assumed to correspond to 100% operating load.
- b. Stack velocity (m/s) = [Stack flow rate (cfm)] / [Stack area (ft²)] * [0.3048 m/ft] / [60 sec/min]. The stack diameter is 20 inches for all critical emergency generators. The stack diameter is 12 inches for the life safety generators. The stack diameter is 6.85 inches for the security generator.
- c. Critical backup generator emission factors come from manufacturer performance data sheet titled "Performance Data [EM1894]", dated May 14, 2020, Emissions Data section: Rated Speed Nominal Data: 1800 rpm. An 85% control factor is applied to PM emissions to account for the diesel particulate filter. Life safety generator emission factors come from the U.S. EPA engine family certification levels for engine family LCPXL18.1NYS (U.S. EPA, 2020c). Security generator emission factors come from the U.S. EPA engine family certification levels for engine family LPKXL07.0PW1 (U.S. EPA, 2020c).
- d. The proposed generators will use ultra-low sulfur diesel fuel which contains 0.0015% sulfur as defined under 40 CFR 80, Subpart I. The SO₂ emission factor is from AP-42 Section 3.4, Table 3.4-1 (10/96).
- e. Short-term Emission Rate (g/s/generator) = [Pollutant Emission Factor (g/bhp-hr)] * [Engine Horsepower (bhp)] / [3,600 s/hr]

4.4.2 Emission Rates

The General Screening Model is run with a point source unit emission rate of 1 gram per second (g/s) for “Other” pollutant as reflected in the load screening analysis model inputs included in Appendix A-5.⁹ The pollutant-specific emission rates are then applied to the unitized model results.

The Refined 1-Hour NO₂ Analysis as discussed in Section 4.4.3 uses the NO_x short-term emission rates directly for the corresponding engine and load in g/s instead of utilizing the unitized 1 g/s emission rate as the model involves a single pollutant and averaging period.

4.4.3 Refined Analysis for 1-Hour NO₂ Standards

For comparison to the 1-hour NO₂ NAAQS and CAAQS, each generator and operating load (if applicable) is modeled using the Plume Volume Molar Ratio Method (PVMRM) per U.S. EPA’s guidelines (U.S. EPA, 2017). The in-stack ratio (ISR) is set at 0.1 based on data presented in the U.S. EPA’s NO₂/NO_x ISR database for diesel/kerosine-fired reciprocating internal combustion engines (U.S. EPA, 2020d). Emissions modeled in the refined analysis reflect the emission rates listed in Table 4-7 for each load and generator and are not annualized as is generally the standard practice for modeling intermittent emission sources.¹⁰

As part of the PVMRM technique, 2013-2017 hourly ozone data from local monitoring stations is included in the modeling analysis to refine the NO_x to NO₂ conversion rate.¹¹ Ozone data from the monitoring station at the 9th St. & Princevalle St. intersection in Gilroy is utilized, then for hours in which ozone data at this station was not available, data from the 158 East Jackson St., San Jose monitoring station is utilized. Missing hourly ozone data is substituted as follows: for one to two consecutive hours of missing values, the missing value is replaced by the greatest preceding or succeeding value. For three or more consecutive hours of missing hourly values, the maximum value occurring from the same month and hour across the five years of ozone data is used.

Seasonal hourly (SEASHR) NO₂ background data matching the AAQS format are incorporated. Hourly 2015-2017 NO₂ data is from the 1007 Knox Ave., San Jose monitoring station. Missing hourly data is replaced in the same manner as for hourly ozone data previously described. For NAAQS models, hourly data is represented based on the 98th percentile for each season and hour. The 98th percentile is represented using the 3rd-highest value for each season and hour as consistent with EPA Guidance (U.S. EPA, 2011). For CAAQS models, the maximum SEASHR data is used as consistent with the format of the standard.

Because PVMRM is dependent on all sources represented in the model, individual models for each generator, load, and standard (CAAQS/NAAQS) are run to determine the worst-case scenario for comparison to the 1-hour NO₂ NAAQS and CAAQS. A total of 253 models are run to estimate the 1-hour NO₂ NAAQS impacts, and another 253 models are run to estimate the 1-hour NO₂ CAAQS impacts. Further description of the individual emission sources is provided in Sections 4.4.1 and 4.4.2. The results of the 506 models are summarized in Appendix A-6.

⁹ AERMOD allows the user to select specific pollutants to implement specific averaging methodologies and chemical reaction options. Thus, “Other” is utilized to make the analysis generic for all pollutants.

¹⁰ EPA guidance recommends annualizing emissions from intermittent sources, such as emergency generators, to demonstrate compliance with the 1-hour NO₂ and SO₂ NAAQS (U.S. EPA, 2011). However, as the Applicant understands that the CEC does not accept this guidance, the 1-hr SO₂ and NO₂ emission rates are modeled as maximum hourly emission rates.

¹¹ The time period of 2013-2017 was selected for the ozone data to be consistent with the meteorological data (a requirement to run PVMRM).

4.4.4 Load Screening Analysis Model Results

The General Screening Model results are scaled to the emission rates provided for each pollutant and generator load per the critical backup generators' manufacturer performance specifications and life safety/security generators' EPA engine family certification levels. The generator which contributes the maximum ambient concentration after the scaling process for each pollutant/averaging period combination is determined to be the worst-case engine and is then selected for the short-term Federal and/or State AAQS modeling demonstration. A detailed summary of the worst-case generator at the worst-case load for each criteria pollutant and AAQS averaging period based on these scaled results is included in Table 4-8. The location of the worst-case generators is depicted in Figure 4-1. AERMOD dispersion model outputs for both the General Screening Model and the refined 1-hour NO₂ analysis are included in Appendix A-6.

Table 4-8: Load Screening Analysis Model Worst-Case Scenario Results

Pollutant	Averaging Period	Worst-Case Generator	Worst-Case Load	Pollutant-Specific Emission Rate (g/s/generator)
NO ₂	1-hour CAAQS	SEC1	100%	2.134E-01
	1-hour NAAQS	GEN50 ^a	100%	5.369E+00
CO	1-hour	GEN11	10%	3.272E-01
	8-hour	GEN50	10%	3.272E-01
SO ₂	1-hour	GEN11	100%	5.555E-03
	3-hour	GEN30	100%	5.555E-03
	24-hour	GEN33	100%	5.555E-03
PM ₁₀	24-hour	SEC1	100%	6.960E-03
PM _{2.5}	24-hour	SEC1	100%	6.960E-03

a. For 1-hour NO₂ NAAQS, additional modeling implementing hourly restrictions on the worst-case hours and loads for GEN49, GEN50, and SEC1 were necessary to demonstrate compliance. After implementing the hourly and load restrictions described in Mitigation Measure AQ-3, GEN50 was determined to be the worst-case engine. The hourly restrictions are conservatively not implemented in the models for other pollutants and standards.

4.5 Construction Phase Air Dispersion Modeling Analysis

Ambient air quality standards define clean air and protect public health, including the health of sensitive populations such as children and the elderly. Therefore, modeling in comparison to the NAAQS and CAAQS provides insight into the impact of the proposed Project on public health and clean air in the area surrounding the proposed Project area. All construction AAQS modeling represents the worst-case emissions by using the maximum emission rates per pollutant across all years of construction operation as represented in one year, which is chosen as 2023 during which the Phase II exterior building is constructed and the Phase I building is operational.

4.5.1 Emission Sources

AERMOD allows for emission units to be represented as point, volume, area, or road sources. Emissions from the construction equipment tailpipes and fugitive dust from soil disturbance (material handling, roads, and surfaces) are represented as volume sources. The source parameters associated with the construction volume sources are provided in Table 4-9 below.

Table 4-9: Project Construction Air Dispersion Modeling Volume Source Input Parameters

Source Description	Model ID	Release Height (m)	Initial Lateral Dimension (m)	Initial Vertical Dimension (m)
Volume Source: Construction Equipment Tailpipe Emissions	EXHAUST	1.12	97.23	0.52
Volume Source: Fugitive Dust from Soil Disturbance (material handling and road dust entrainment)	FUGDUST	1.12	97.23	0.52

Both volume sources are located over the proposed facility buildings to represent the general area construction would occur. The volume source type is representative of the construction emission sources as they are fugitive in nature and may occur above ground level or with a vertical plume rise. The release heights of EXHAUST and FUGDUST are based on the midpoint height of the weighted average height of the construction equipment. The weighted average height is developed using dimensions of the equipment type and the anticipated quantity of the equipment type. Most emissions from FUGDUST are from material handling operations as opposed to road dust entrainment, thus the initial and lateral dimensions are conservatively represented similarly to EXHAUST as opposed to haul road volume source dimensions. Construction equipment types include, but are not limited to, concrete saws, crushers, excavators, dozers, tractors, graders, scrapers, and cranes. The initial lateral and vertical dimensions are estimated using the area encompassing the two proposed construction phases and dividing by a factor of 4.3 and 2.15, respectively, as consistent with AERMOD user guidance (U.S. EPA, 2019b).

Short-term averaging period models only represent the construction volume sources while long-term averaging period models represent both the construction volume sources and the generators associated with the Phase I building (GEN1 through GEN26, LSGEN1) and the security generator (SEC1) (collectively referred to as the Phase I generators). Generators are not included in short-term averaging period models because the Applicant will implement Mitigation Measure AQ-2 to comply with the 1-hour NO₂ CAAQS and NAAQS limits, as further described in Section 4.5.4.

4.5.2 Emission Rates

Emission rates for the construction emission sources reflect the maximum annual and daily mitigated emissions as calculated using CalEEMod. All construction AAQS modeling represents the worst-case emissions by using the maximum emission rates per pollutant across all years of construction operation as represented in one year, which is 2023 during which the Phase II building is constructed. The CalEEMod calculations assume 8 hours of construction equipment operation during weekdays, as will be the typical operating schedule. The dispersion modeling reflects that construction activities will occur during weekdays,

generally for 8-hours per day and in accordance with local construction restrictions. Construction equipment tailpipe emissions include NO_x, CO, SO₂, PM₁₀, and PM_{2.5}. For the 1-hour NO₂ NAAQS and CAAQS models, emissions are represented using NO₂ PVMRM with the same ozone and background data described in Section 4.4.3, while all other pollutants are represented using the respective pollutant's "Concentration Only" method. Construction equipment material handling fugitive particulate emissions (i.e. scooping/dumping of soil) are included with Fugitive PM₁₀ and Fugitive PM_{2.5}.

Emission rates for the Phase I generators represented in the long-term averaging period models are consistent with those used for the operational phase dispersion modeling further described in Section 4.6.2.

4.5.3 Background Concentration

Background concentration data at the ambient air monitoring station in closest proximity to the Project is determined as described in Section 3.2.3 of this AQIA.

As shown in Table 4-10, the background concentrations alone of PM₁₀ at certain averaging periods exceed the AAQS. Therefore, any additional Project emissions of PM₁₀ at the same averaging periods would also inherently exceed the AAQS, regardless of the magnitude of potential emissions from the proposed Project.

4.5.4 Ambient Air Dispersion Model Results

The Applicant has chosen to model the worst potential impacts from the construction phase using several conservative assumptions, such as the following:

1. The maximum potential emissions are represented for all dispersion modeling. The maximum potential emissions are from construction operations between 2023 and 2024. Construction of the Phase II building exterior is anticipated to only occur during 2023.
2. Because Phase I will be operational by 2023, annual generator emissions are included to represent operational and construction impacts combined.
3. Volume source location is centrally located between the Phase I and Phase II buildings during the construction of the Phase II building. The Phase II building is located on the east side of the property while the majority of receptors are located to the west of the property boundary. Therefore, emissions are conservatively represented as being located closer to the western receptors than actual construction operations during the worst-case construction emissions time frame.
4. Volume source initial vertical dimensions were conservatively chosen to be closer to the ground thus reducing potential dispersion and resulting in increased ground level concentrations.
5. BAAQMD guidance recommends removing the offsite emissions beyond 1,000 feet of the project boundary.¹² The modeled emission rates did not exclude the offsite emissions beyond 1,000 feet of the project boundary, and as such, are conservative representations of the emissions occurring at the Facility.

The total concentrations of PM₁₀ from the background concentrations and construction emissions exceed the 24-hour CAAQS and the annual CAAQS. However, for each of these exceedances, the concentrations of pollutant emissions resulting from the Project are below the applicable Class II Significant Impact Levels (SIL) thresholds of 5 µg/m³ for 24-hour impacts and 1 µg/m³ for annual impacts, which represent the concentrations of criteria pollutants in the ambient air that are considered inconsequential in comparison to the NAAQS (U.S. EPA, 2018). As stated previously, the background concentrations for each of these cases already exceed the CAAQS and thus despite the comparably minimal Project contributions, the CAAQS is

¹² Per e-mail correspondence with Areana Flores (BAAQMD) and Emily Wen (Trinity) on January 7, 2020.

exceeded. As demonstrated in Table 4-4, the construction PM₁₀ emissions from the proposed Project are well under the BAAQMD CEQA thresholds of significance. Due to these circumstances, the Applicant does not consider the Project emissions as significantly impacting the state or federal air quality plans.

The following should be noted with respect to Table 4-10:

- ▶ The background concentration data for PM₁₀ is above the 24-hour and annual CAAQS and the background concentration data for PM_{2.5} is above the 24-hour NAAQS and annual CAAQS without including concentrations from the proposed Project.
- ▶ Therefore, the concentration of PM₁₀ is above the 24-hour and annual CAAQS when cumulated with background concentration data available from BAAQMD ambient air monitors and it can be deduced that the background concentrations of PM₁₀ are responsible for the proposed Project's total concentration exceeding the CAAQS for PM₁₀.
- ▶ Further, the concentrations of PM₁₀ resulting from the proposed Project alone are significantly below the CAAQS and the 24-hour and annual concentrations of PM₁₀ resulting from the proposed Project are below the PM₁₀ 24-hour and annual SILs.
- ▶ Per the BAAQMD CEQA thresholds of significance, PM₁₀ emissions are much lower than the significance thresholds, as discussed in Section 4.2.1.

To comply with the 1-hour NO₂ CAAQS and NAAQS, the Applicant is implementing Mitigation Measure AQ-2 to reduce NO_x impacts below the threshold, as addressed in detail below.

Mitigation Measure AQ-2. Limit generator maintenance and testing such that generator maintenance and testing operation does not occur during the same hour as the Phase II building exterior construction equipment.

Table 4-10: Construction Phase Ambient Air Quality Dispersion Model Results and Comparison to AAQS

Pollutant	Averaging Period	Ambient Air Quality Standards		Construction Concentration ($\mu\text{g}/\text{m}^3$)	Background Concentration ($\mu\text{g}/\text{m}^3$)	Total Concentration ($\mu\text{g}/\text{m}^3$)	Comparison to Ambient Air Quality Standards		If AAQS Exceeded, Comparison to SIL ^d
		CAAQS ^b	NAAQS ^c				CAAQS	NAAQS	
		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)				Below Threshold?	Below Threshold?	
NO ₂	1-hour ^a	339	--	--	--	241.9	Yes	--	--
		--	188	--	--	173.1	--	Yes	--
	Annual	57	--	8	32	40.0	Yes	--	--
		--	100	8	30	38.2	--	Yes	--
CO	1-hour	23,000	--	259	3,208	3,466	Yes	--	--
		--	40,000	205	3,093	3,298	--	Yes	--
	8-hour	10,000	--	66	2,635	2,701	Yes	--	--
		--	10,000	58	2,635	2,692	--	Yes	--
SO ₂	1-hour	655	--	0.56	38.0	38.6	Yes	--	--
		--	196	0.35	7.4	7.8	--	Yes	--
	3-hour	--	1,300	0.27	7.3	7.6	--	Yes	--
	24-hour	105	--	0.09	3.9	4.0	Yes	--	--
	Annual	--	80	0.016	0.49	0.5	--	Yes	--
PM ₁₀	24-hour	50	--	4	121	124.9	No	--	Yes
		--	150	3	80	83.5	--	Yes	--
	Annual	20	--	0.48	23	23.6	No	--	Yes
PM _{2.5}	24-hour	--	35	1.19	27	28	--	Yes	--
	Annual	--	12	0.269	7.8	8.0	--	Yes	--
		12	--	0.275	6.4	6.6	Yes	--	--

- a. For 1-hr NO₂ impacts, the total concentration reflects the highest modeled 1-hour NO₂ concentration (Project concentration) combined with seasonal hour of day NO₂ background concentrations.
- b. The CAAQS are codified in the California Code of Regulations Title 17 § 70200 Table of Standards (CARB, 2008b).
- c. The NAAQS are codified in 40 CFR Part 50, National Primary and Secondary Ambient Air Quality Standards (U.S. EPA, 2020e).
- d. For PM₁₀, the SILs are 5 $\mu\text{g}/\text{m}^3$ for 24-hour impacts and 1 $\mu\text{g}/\text{m}^3$ for annual impacts. Class II SILs are codified in 40 CFR Section 51.165(b)(2) (U.S. EPA, 1986).

4.6 Operational Phase Air Dispersion Modeling Analysis

In addition to construction phase air dispersion modeling, operational phase air dispersion modeling was also conducted.

4.6.1 Emission Sources

Air dispersion models for averaging periods of less than one year (short-term) incorporate the representative worst-case generator as determined per the load screening analysis. Stack parameters correspond to the representative, worst-case load identified in the load screening analysis.

Air dispersion models for annual averaging periods include all 50 critical backup generators, the two life safety generators, and one security generator. Stack parameters for the critical backup generators, such as temperature and flow rate, are conservatively set at 10% load, representing the lowest temperature and flow rate. Low temperatures and low flow rates are considered to be most conservative because cooler, slow-moving plumes are less ideal for dispersion and tend to concentrate closer to the Project area, resulting in higher concentrations. In contrast, hot and fast-moving plumes will disperse more quickly and create lower concentrations around the facility.

4.6.2 Emission Rates

The AERMOD dispersion model is run with different emission rates dependent upon the averaging period of the model. For averaging periods of less than one year (short-term), the emissions factors from the manufacturer specification sheets for the worst-case representative generator load are converted to a g/s equivalent value. This equivalent value is input as the emission rate into the AERMOD dispersion model. The worst-case emission rates for each short-term AAQS are summarized in Table 4-7.

Operational schedules will be limited to one generator at a time for routine maintenance and testing activities conducted pursuant to manufacturer specifications. The short-term AAQS models represent the most conservative emissions scenario in which the worst-case load/generator operates continuously over the entire averaging period.

For annual averaging periods, the annual PTE calculated in the emission calculations in Section 4.2.3 per generator was converted to a g/s equivalent value for the critical backup generators and life safety generators.¹³ These equivalent values are input as the emission rate for the respective type of generator into the AERMOD dispersion model.

4.6.3 Background Concentration

Background concentration data at the ambient air monitoring station in closest proximity to the Project is determined as described in Section 3.2.3 of this AQIA.

As shown in Table 4-11, the background concentrations alone of PM₁₀ at certain averaging periods exceed the AAQS. Therefore, any additional Project emissions of PM₁₀ at the same averaging periods would also inherently exceed the AAQS, regardless of the magnitude of potential emissions from the proposed Project.

¹³ This emission rate conversion from annual PTE in tpy to g/s is based on 8,760 hours per year of operation as AERMOD will estimate annual impacts from 8,760 hours per year of operation.

4.6.4 Ambient Air Dispersion Model Results

The representative worst-case generators from the load screening analysis model were modeled and the resulting concentrations were compared to the NAAQS and CAAQS for each pollutant at each applicable averaging period. A detailed summary of the results and the comparison to NAAQS and CAAQS is included in Table 4-9. As discussed in Section 4.5.4, the total concentrations of PM₁₀ from the background concentrations and Project emissions exceed the 24-hour CAAQS and the annual CAAQS. However, for each of these exceedances, the concentrations of pollutant emissions resulting from the Project are below the applicable Class II Significant Impact Levels (SIL) thresholds of 5 µg/m³ for 24-hour impacts and 1 µg/m³ for annual impacts, which represent the concentrations of criteria pollutants in the ambient air that are considered inconsequential in comparison to the NAAQS (U.S. EPA, 2018). As stated previously, the background concentrations for each of these cases already exceed the CAAQS and thus despite the comparably minimal Project contributions, the CAAQS is exceeded. As demonstrated in Table 4-6, the operational PM₁₀ emissions from the proposed Project are well under the BAAQMD CEQA thresholds of significance. Due to these circumstances, the Applicant does not consider the Project emissions as significantly impacting the state or federal air quality plans.

The following should be noted with respect to Table 4-9:

- ▶ The background concentration data for PM₁₀ is above the 24-hour and annual CAAQS and the background concentration data for PM_{2.5} is above the 24-hour NAAQS and annual CAAQS without including concentrations from the proposed Project.
- ▶ Therefore, the concentration of PM₁₀ is above the 24-hour and annual CAAQS when cumulated with background concentration data available from BAAQMD ambient air monitors and it can be deduced that the background concentrations of PM₁₀ are responsible for the proposed Project's total concentration exceeding the CAAQS for PM₁₀.
- ▶ Further, the concentrations of PM₁₀ resulting from the proposed Project alone are significantly below the CAAQS and the 24-hour and annual concentrations of PM₁₀ resulting from the proposed Project are below the PM₁₀ 24-hour and annual SILs.
- ▶ Per the BAAQMD CEQA thresholds of significance, PM₁₀ emissions are much lower than the significance thresholds, as discussed in Section 4.2.3.

To comply with the 1-hour NO₂ NAAQS, the Applicant is implementing Mitigation Measure AQ-3 to reduce NO_x impacts below the threshold, as addressed in detail below.

Mitigation Measure AQ-3. Limit operational schedule for GEN49, GEN50, and SEC1.

The Applicant shall not conduct maintenance and testing for the listed engines during the following hours and loads to comply with the 1-hour NO₂ NAAQS:

Basic Measures

- a. GEN49 – No routine maintenance and testing at 100% load from 6:00 PM-7:00 PM
- b. GEN50 – No routine maintenance and testing at 100% load from 5:00 PM-6:00 PM
- c. SEC1 (Security Generator) – No routine maintenance and testing from 5:00 PM-7:00 AM

Table 4-11: Ambient Air Quality Dispersion Model Results and Comparison to AAQS

Pollutant	Averaging Period	Ambient Air Quality Standards		Project Concentration ($\mu\text{g}/\text{m}^3$)	Background Concentration ($\mu\text{g}/\text{m}^3$)	Total Concentration ($\mu\text{g}/\text{m}^3$)	Comparison to Ambient Air Quality Standards		If AAQS Exceeded, Comparison to SIL ^d
		CAAQS ^b	NAAQS ^c				CAAQS	NAAQS	
		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)				Below Threshold?	Below Threshold?	
NO ₂	1-hour ^a	339	--	--	--	338	Yes	--	--
		--	188	--	--	187	--	Yes	--
	Annual	57	--	8	32	40	Yes	--	--
		--	100	8	30	38	--	Yes	--
CO	1-hour	23,000	--	116	3,208	3,324	Yes	--	--
		--	40,000	104	3,093	3,197	--	Yes	--
	8-hour	10,000	--	45	2,635	2,680	Yes	--	--
		--	10,000	32	2,635	2,667	--	Yes	--
SO ₂	1-hour	655	--	1.05	38.0	39.0	Yes	--	--
		--	196	0.68	7.4	8.1	--	Yes	--
	3-hour	--	1,300	0.41	7.3	7.7	--	Yes	--
	24-hour	105	--	0.25	3.9	4.2	Yes	--	--
	Annual	--	80	0.014	0.49	0.5	--	Yes	--
PM ₁₀	24-hour	50	--	2.6	121	124	No	--	Yes
		--	150	2.4	80	83	--	Yes	--
	Annual	20	--	0.039	23	23	No	--	Yes
PM _{2.5}	24-hour	--	35	1.66	27	29	--	Yes	--
	Annual	--	12	0.034	7.8	7.8	--	Yes	--
		12	--	0.039	6.4	6.4	Yes	--	--

a. For CAAQS 1-hr NO₂ impacts, the total concentration reflects the highest modeled 1-hour NO₂ concentration (Project concentration) combined with seasonal hour of day NO₂ background concentrations. The NAAQS 1-hr NO₂ impact reflects Mitigation Measure AQ-3 which is conservatively not reflected in the other AAQS models.

b. The CAAQS are codified in the California Code of Regulations Title 17 § 70200 Table of Standards (CARB, 2008b).

c. The NAAQS are codified in 40 CFR Part 50, National Primary and Secondary Ambient Air Quality Standards (U.S. EPA, 2020e).

d. For PM₁₀, the SILs are 5 $\mu\text{g}/\text{m}^3$ for 24-hour impacts and 1 $\mu\text{g}/\text{m}^3$ for annual impacts. Class II SILs are codified in 40 CFR Section 51.165(b)(2) (U.S. EPA, 1986).

4.7 Health Risk Assessments

This section presents the evaluation of potential health risks from TACs associated with the proposed Project. Two HRAs are completed to determine the potential health risks, one for the construction phase and one for the operational phase of the Project. The air toxic sources associated with the proposed Project for the construction phase are the emissions of diesel particulate matter from diesel-fired construction equipment for the exterior of the Phase II building and the operation of the Phase I building emergency generators. The air toxic sources associated with the proposed Project for the operational phase are the emissions of diesel from emergency generators. AERMOD dispersion modeling and the Hotspots Analysis and Reporting Program Air Dispersion Modeling and Risk Tool (ADMRT) (version 19121) are used in this AQIA to estimate carcinogenic and chronic (long-term) health risks at residential and worker receptors as a result of the emissions associated with the Project.¹⁴ The analysis concludes that the health risks are below BAAQMD's HRA thresholds of significance. The increased risk is evaluated on a per-receptor basis using the results from HRA conducted for the proposed Project emissions scenario. The results support a less than significant air quality impact on air toxic pollutant emissions. The following sections detail the parameters relevant to the air dispersion model and HRA.

4.7.1 Receptors

The fenceline and refined variable density receptors used for the air dispersion modeling are also used to evaluate the project health risks associated with the proposed Project. Section 4.3.6 provides details on the receptors that are used to evaluate project risk. The receptors are set at a flagpole height of 1.5 meters to conservatively represent an average human's breathing height as recommended by the BAAQMD Recommended Methods for Screening and Modeling Local Risks and Hazards (BAAQMD, 2011).

There are four key receptor types as follows:

- ▶ The Point of Maximum Impact (PMI) is selected as the highest risk receptor regardless of location.
- ▶ The Maximally Exposed Individual Resident (MEIR) is selected as the highest impact receptor which best aligns with a residence as modeled with resident exposure pathways and duration.
- ▶ Maximally Exposed Individual Sensitive Receptor (MEISR) is selected as the highest impact receptor which best aligns with a sensitive receptor (e.g. school, hospital, nursing home) as modeled with resident exposure pathways and duration.
- ▶ Maximally Exposed Individual Worker (MEIW) is selected as the highest impact receptor which best aligns with a workplace as modeled with worker exposure pathways and duration.

Potential sensitive receptors near the project are identified and summarized in Section 3.2.4. For purposes of the health risk analysis, the sensitive receptors are further refined to account for the anticipated chronic (long-term) exposure at the receptor location. Further discussion of the sensitive receptors considered for the health risk analysis is provided in Section 4.7.7.

4.7.2 Emission Sources

For the construction phase HRA, emissions are conservatively represented by using the maximum exhaust particulate emission rates as representative for 2023 in which the Phase II building is constructed and during which the Phase I building is operational. The AERMOD dispersion model is run with one volume source representing construction equipment tailpipe emissions and point sources representing 26 critical backup generators, one life safety generator, and one security generator. The conservatively estimated

¹⁴ DPM is the only toxic pollutant emitted from the Project's operations, which does not have acute (short-term) health risk effects.

volume source parameters are provided in Section 4.5.1 and point source parameters are consistent with the operational phase HRA described in this section.

For the operational phase HRA, the AERMOD dispersion model is run with point sources representing each of the 50 critical backup generators, two life safety generators, and one security generator. Stack parameters such as temperature and flow rate for the critical backup generators are conservatively set at 10% load, representing the lowest temperature and flow rate. Stack parameters for the life safety generators and security generator are set at 100% load due to the availability of manufacturer-specified stack parameter data.

4.7.3 Emission Rates

The AERMOD dispersion model is run with a point source unitized emission rate of 1 g/s for "Other" pollutant. For the construction phase HRA, the AERMOD results are scaled by the worst-case annual construction exhaust PM PTE determined in CalEEMod for the volume source and the project operational annual PTE per generator per the emission calculations in Section 4.2.1. for the Phase I emergency generators. For the project operational HRA, the AERMOD results are scaled by the project operational annual PTE per generator in the emission calculations in Section 4.2.1 for all 53 emergency generators. The scaled PTE are then input into HARP.

4.7.4 Exposure Pathways

Results from the air dispersion modeling assessment are combined with applicable TAC emission rates in HARP to model risk and exposure. Exposure pathways are generally classified as primary pathways and secondary pathways. Inhalation is the primary exposure pathway for all modeled sources and substances. For multi-pathway substances, non-inhalation exposure pathways are also to be evaluated. As DPM does not contribute to acute health risk, only cancer risks and chronic hazard indices are considered for the analysis.

Residential cancer risks and chronic hazard indices are evaluated for the following default exposure pathways: dermal absorption, soil ingestion (reflecting a 0.02 m/s deposition rate for particulate-controlled sources), and mother's milk. HARP default parameters were used for numerical pathway inputs.

Worker cancer risks and chronic hazard indices are evaluated based on default worker multi-pathway exposure for the following exposure pathways: dermal absorption, soil ingestion (reflecting a 0.02 m/s deposition rate for particulate-controlled sources). An 8-hour breathing rate with moderate intensity and a 4.2 worker adjustment factor (WAF) was applied to the inhalation pathway to conservatively account for exposure to workers while testing occurred primarily during regular business hours.

4.7.5 Construction Phase Exposure Duration

As construction is not expected to occur for more than 7 years, the exposure duration is represented as 7 years with residential and sensitive receptor exposure assumed to begin prior to birth (during the third trimester of pregnancy). Worker exposure is assumed to begin at age 16 and for a total duration of 7 years. For the residential scenario, the default fraction of time at residence for age bins greater than or equal to 16 years is applied to account for adults spending a portion of the day away from their residence. The fraction of time at residence for age bins less than or equal to 16 years is not applied because at least one school is located within the Zone of Impact (ZOI) which is the 1 per million or greater cancer risk zone associated with the Project (OEHHA, 2015). The Zone of Impact is further discussed in the Section 4.7.7.

4.7.6 Operational Phase Exposure Duration

Consistent with health risk default parameters, residential and sensitive receptor exposure is assumed to begin prior to birth (during the third trimester of pregnancy) and continue for 30 years while worker exposure is assumed to begin at age 16 and continue for 25 years. For the residential scenario, the default fraction of time at residence for age bins greater than or equal to 16 years is applied to account for adults spending a portion of the day away from their residence. The fraction of time at residence for age bins less than or equal to 16 years is not applied because at least one school is located within the ZOI which is the 1 per million or greater cancer risk zone associated with the Project (OEHHA, 2015). The Zone of Impact is further discussed in the subsequent section.

4.7.7 Project Air Toxic Modeling Results

The risk from the proposed Project for each residential, sensitive, and worker receptor is evaluated against the BAAQMD significance thresholds. The cancer risk and chronic hazard index for both residents, sensitive individuals, and workers are all below the BAAQMD significance thresholds for health risk. These risks are listed in Tables 4-12 and 4-13. Thus, the HRA concludes that the Project would not have a significant health risk.

Figure 4-2 shows the location of the MEIR, MEISR, MEIW, and PMI of the operational phase. The MEIR, MEISR, MEIW, and PMI locations are the same for both cancer risk and chronic hazard index evaluations. The construction phase MEIR, MEISR, and MEIW are the same locations as that for the operational phase.

Table 4-12: Construction Phase Health Risk Assessment Results

Receptor	Sensitive Receptor ID ^a	HARP Receptor ID	Location (UTM Zone 10)	Cancer Risk (in 1 million)		Chronic Hazard Index		Significant Impact?
				Project Risk	Significance Threshold	Project Hazard Index	Significance Threshold	
MEIR	N/A	2134	628869 m E 4097265 m N	3.74	10	1.39E-03	1	No
MEISR	4	1500	627569 m E 4097865 m N	1.90	10	7.07E-04	1	No
MEIW	N/A	457	628049 m E 4097905 m N	2.57	10	6.76E-03	1	No
PMI	N/A	924	628469 m E 4097725 m N	35.16	N/A ^b	1.31E-02	N/A ^b	N/A

- a. Sensitive Receptor ID corresponds to the ID provided in Table 3-6.
- b. The BAAQMD CEQA Air Quality Guidelines note that the health risk evaluation should be considered for the maximally exposed individual (MEI). Per BAAQMD Rule 2-5-302 and BAAQMD Rule 11-18-213, the MEI is defined as “a person that may be located at the receptor location where the highest exposure to toxic air contaminants emitted from a given source or project is predicted, as shown by an APCO-approved HRA.” The definitions go on to specify that MEI locations consider exposure to residents, workers, and students. As such, the MEI location differs from the PMI in this evaluation. Since the PMI is not located at a receptor location where a person may reasonably be located on a long-term basis, the chronic and cancer risk thresholds are not applicable to the PMI location.

Table 4-13: Operational Phase Health Risk Assessment Results

Receptor	Sensitive Receptor ID ^a	HARP Receptor ID	Location (UTM Zone 10)	Cancer Risk (in 1 million)		Chronic Hazard Index		Significant Impact?
				Project Risk	Significance Threshold	Project Hazard Index	Significance Threshold	
MEIR	N/A	2134	628869 m E 4097265 m N	3.16	10	7.29E-04	1	No
MEISR	4	1500	627569 m E 4097865 m N	1.69	10	3.90E-04	1	No
MEIW	N/A	457	628049 m E 4097905 m N	4.23	10	3.25E-03	1	No
PMI	N/A	6059	628153 m E 4097785.20 m N	28.3	N/A ^b	6.54E-03	N/A ^b	N/A

- a. Sensitive Receptor ID corresponds to the ID provided in Table 3-6.
- b. The BAAQMD CEQA Air Quality Guidelines note that the health risk evaluation should be considered for the MEI. Per BAAQMD Rule 2-5-302 and BAAQMD Rule 11-18-213, the MEI is defined as “a person that may be located at the receptor location where the highest exposure to toxic air contaminants emitted from a given source or project is predicted, as shown by an APCO-approved HRA.” The definitions go on to specify that MEI locations consider exposure to residents, workers, and students. As such, the MEI location differs from the PMI in this evaluation. Since the PMI is not located at a receptor location where a person may reasonably be located on a long-term basis, the chronic and cancer risk thresholds are not applicable to the PMI location.

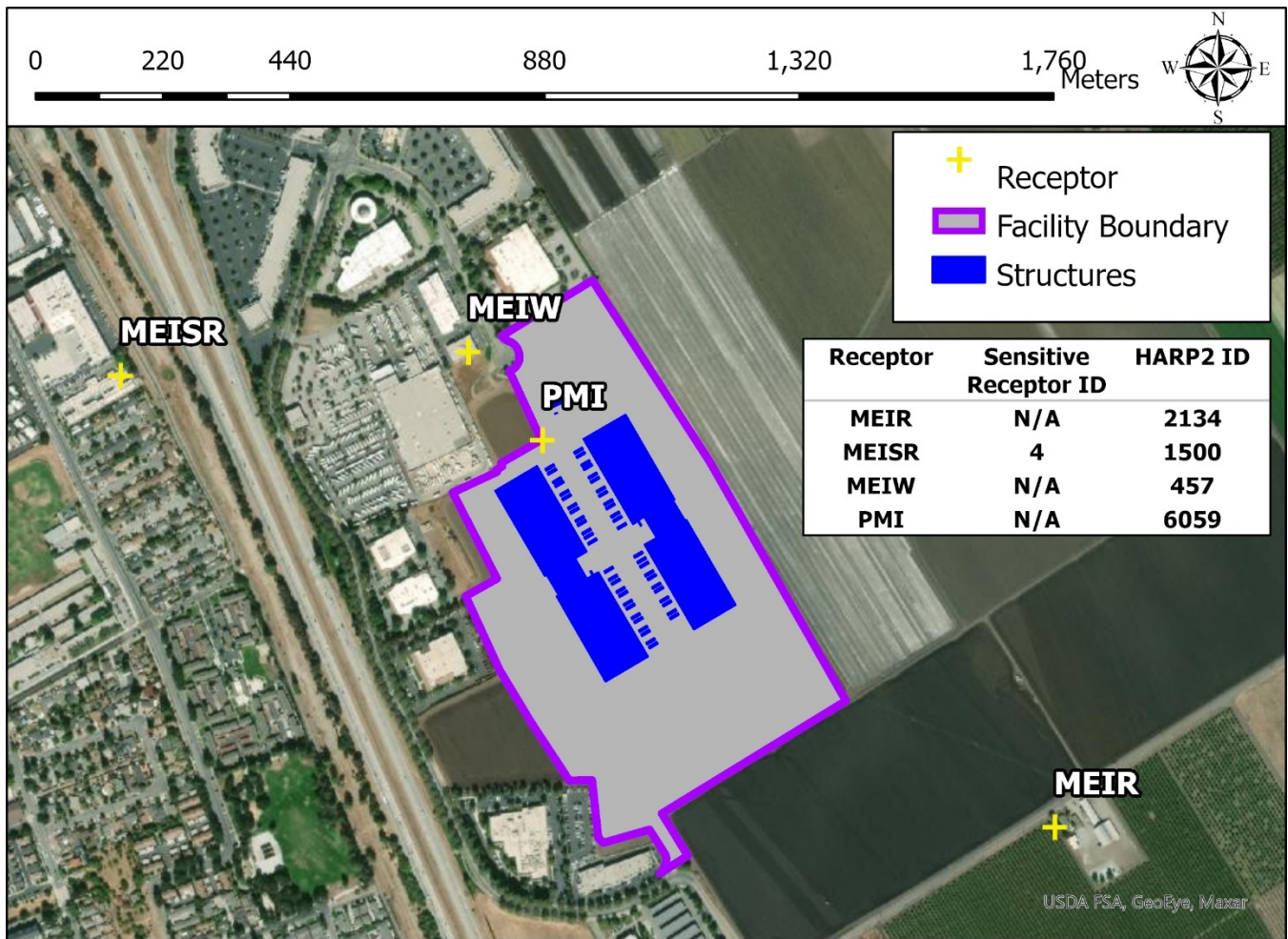


Figure 4-2: Location of MEIR, MEISR, MEIW, and Operational Phase PMI

As shown in Figure 4-2, the operational phase PMI is located along the north side of the Facility property boundary. The PMI location is outside of a building in a place where the Applicant does not anticipate individuals would be located for extended periods of time.

The MEISR is a healthcare and rehabilitation center located to the west of the Facility property boundary which is anticipated to have in-patient care. The MEISR is determined by refining the list of sensitive receptors identified in Section 3.2.4. to those which will have chronic exposure. DPM is the only toxic pollutant emitted from the Project's operations, which does not have acute health risk effects. As such, sensitive receptors with the potential of chronic exposure are evaluated for determining the MEISR.

Figure 4-3 demonstrates the ZOI (the 1 per million or greater cancer risk zone) as a bright yellow outline and the zone of influence (the 1,000 feet zone around the property boundary) as a light green shaded area. There are no chronically-exposed sensitive receptors within the zone of influence.

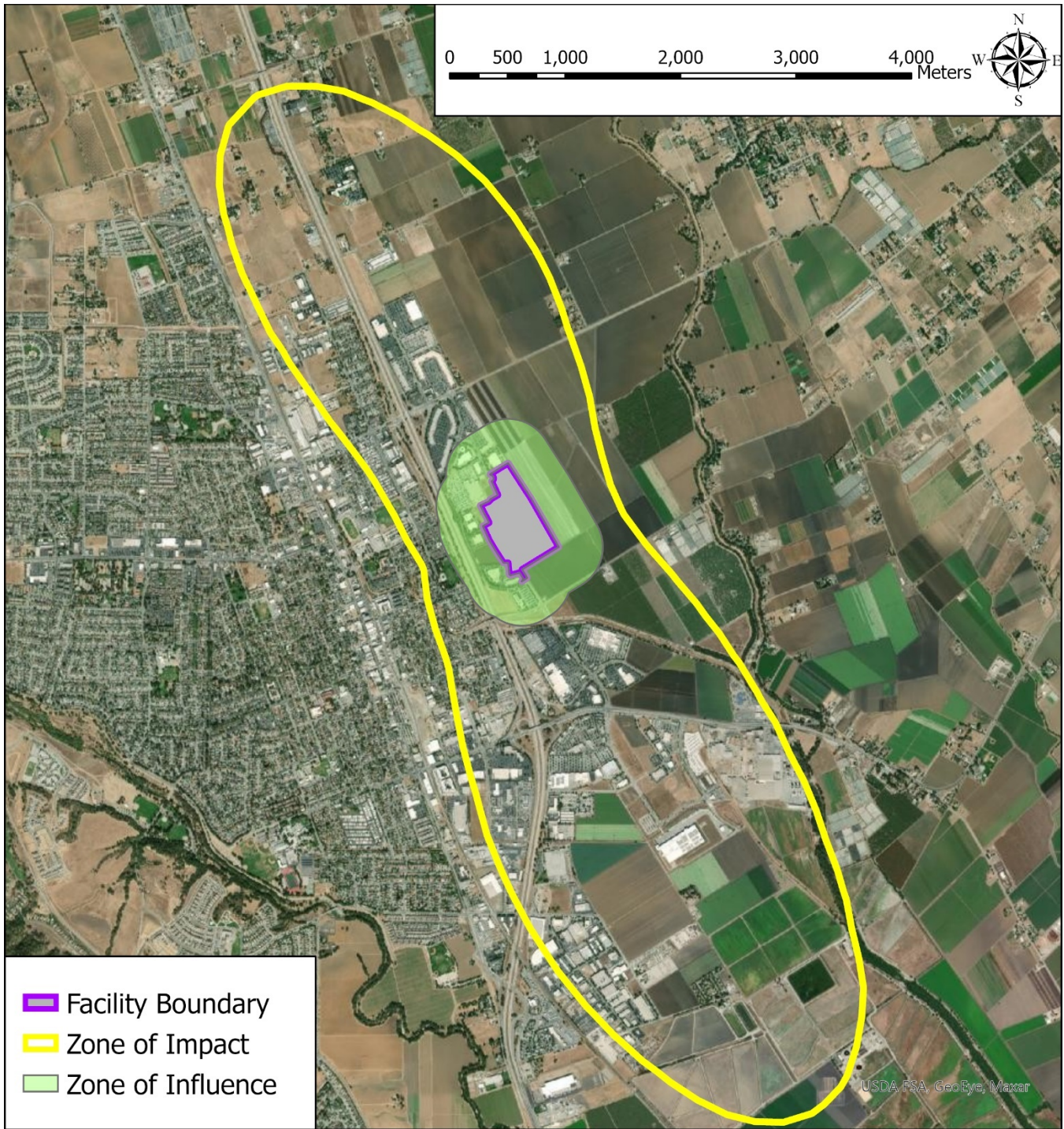


Figure 4-3: Operational Phase One in 10⁶ Cancer Risk Zone of Impact

An additional BAAQMD threshold of significance for the risk and hazards category evaluates the ambient PM_{2.5} increase associated with the Project operations. The threshold is 0.3 µg/m³ on an annual average basis and the maximum ambient PM_{2.5} increase associated with the Project at any receptor is 0.039 µg/m³; therefore, any value at an MEI location will inherently be lower (BAAQMD, 2017b). Thus, the ambient PM_{2.5} increase associated with the Project is not a significant impact.

4.7.8 Cumulative Health Risk Assessment Results

In addition to the HRA described above, an assessment of the proposed Project's impact summed with the impacts of sources within 1,000 feet of the Project was conducted and compared to the BAAQMD CEQA cumulative thresholds of significance (BAAQMD, 2017b).¹⁵ The cumulative cancer risk, hazard index, and ambient PM_{2.5} concentration are calculated using the maximum cancer risk and hazard indices from stationary sources within 1,000 feet of the proposed Project, as provided by BAAQMD. The cancer risk and PM_{2.5} concentration from highways, major streets, and rails within 1,000 feet of the Project are determined using BAAQMD raster files that incorporate annual average daily traffic (AADT) per EMFAC 2014 data for fleet mix and includes OEHHA's 2015 Guidance Methods. The raster files encompass highways, major streets, and rails with greater than 30,000 AADT. Table 4-14 summarizes the impacts from cumulative sources in comparison to the BAAQMD threshold of significance for cumulative risk and hazards.

¹⁵ Per the BAAQMD CEQA Guidelines, the zone of influence for the cumulative threshold is 1,000 feet from the source or receptor.

Table 4-14: Impacts from Cumulative Sources

Source ^a	Maximum Cancer Risk (in 1 million)			Maximum Hazard Index			Maximum Annual PM _{2.5} Contribution (µg/m ³) ^b		
	MEIW	MEIR	MEISR	MEIW	MEIR	MEISR	MEIW	MEIR	MEISR
Plant No. 14520, Kaiser Permanente	6.56			0.01			0.01		
Plant No. 15334, Target Store T1851	0.01			0			0		
Plant No. 15772, City of Gilroy	1.54			0			0		
Plant No. 18259, County of Santa Clara - VHC Gilroy	1.64			0			0		
Plant No. 19648, City of Gilroy	6.23			0			0.01		
Highway	12.07	5.90	34.43	-- ^c			0.197	0.095	0.576
Railways	0.97	0.81	1.38	-- ^c			0.001	0.001	0.002
Major Streets	0.08	0.04	0.07	-- ^c			0.002	0.001	0.002
Total Cumulative Sources	29.10	22.72	51.86	1.00E-02	1.00E-02	1.00E-02	0.22	0.12	0.60
Project Operation of Generators	4.23	3.16	1.69	3.25E-03	7.29E-04	3.90E-04	7.29E-04	3.90E-04	0.039
<i>Total Cumulative Sources + Project Operation</i>	<i>33.33</i>	<i>25.88</i>	<i>53.55</i>	<i>0.013</i>	<i>0.011</i>	<i>0.010</i>	<i>0.26</i>	<i>0.16</i>	<i>0.64</i>
<i>Significance Threshold</i>	<i>100</i>			<i>10</i>			<i>0.8</i>		
Significant Impact?	No			No			No		

- a. Sources within 1,000 feet of the Facility are determined using BAAQMD's Permitted Stationary Sources Risk and Hazards tool (BAAQMD, 2020b). As of 2020, BAAQMD has updated its procedures to only provide maximum values for each stationary source/facility. As such, only the maximum values are represented for each source/facility.
- b. Maximum Annual PM_{2.5} reflects the project impact determined for the annual PM_{2.5} CAAQS. Annual PM_{2.5} CAAQS is conservatively used to represent the MEIW, MEIR, MEISR.
- c. Hazard index is not provided for highways, major streets and railways per the BAAQMD raster files.

The cumulative cancer risk, hazard index, and PM_{2.5} concentration were estimated for the MEIR, MEIW, and MEISR. It is important to note that Table 4-14 specifies specific values for these MEI receptor locations where the data is available and otherwise substitutes the overall maximum receptor value as a conservative representation. As such, the annual PM_{2.5} project impact for the MEIR, MEIW, and MEISR all conservatively reflect the maximum annual PM_{2.5} impact from the Project. Based on the results of the comparison to cumulative thresholds for the proposed Project, the Project's health risk for maximally exposed individuals does not exceed the cumulative health risk thresholds when summed with the health risk of sources within 1,000 feet of the Project.

Data for future projects is not available from BAAQMD, thus the cumulative HRA was primarily performed based on existing operations quantified by BAAQMD. The Applicant also conservatively assumes that one new data center could be constructed within 1,000 feet of the Project site boundary and includes the same cancer risk, hazard index and PM_{2.5} concentration as the proposed Project for this theoretical source. As demonstrated in Table 4-14, the cumulative thresholds of significance are not exceeded even with this theoretical source.

4.8 Impact Summary and Mitigation Recommendations

Table 4-15 summarizes the checklist questions from Appendix G of the California State CEQA Guidelines for air quality and GHG impacts and determinations resulting from the proposed Project analysis.

Table 4-15: Environmental Impact Significance Determinations

Air Quality				
Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Conflict with or obstruct implementation of the applicable air quality plan?		X		
b. Result in a 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?		X		
c. Expose sensitive receptors to substantial pollutant concentrations?			X	
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			X	
Greenhouse Gas Emissions				
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			X	
b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			X	

4.8.1 Types of Impacts

Direct Impacts. Direct impacts are the result of a project itself (from its operation) in the form of emissions generated at a project location. For example, exhaust emissions from vehicles and fugitive dust are direct impacts.

Indirect Impacts. Indirect impacts are those that may occur at locations other than a project location, or on a regional basis. For example, an increase in electricity usage could affect regional air quality.

Cumulative Impacts. Cumulative impacts are the combination of a project's direct and/or indirect impacts along with other existing, proposed, and reasonably foreseeable projects that may be related to the project. For example, the cumulative impact of all operational activity in an air basin may affect regional air quality.

Consistency with Plans and Programs. A project may be considered to have a significant impact if it conflicts with or delays implementation of any applicable air quality attainment or maintenance plan. A project is conforming if it complies with the applicable rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan).

4.8.2 Impact: Air Quality Criteria A and B

The following discuss the Project's air quality impact based on air quality significance Criteria A and B.

- ▶ Potential to conflict with or obstruct implementation of the applicable air quality plan (Criterion A) (Less than Significant, With Mitigation Incorporated).

As shown in Table 4-6, the emissions associated with the proposed Project would not exceed applicable significance thresholds and would result in less than significant operational impacts, except for daily and annual NO_x emissions. As explained in Section 4.2.3 and 4.6.4, although the NO_x emissions exceed the BAAQMD CEQA thresholds of significance, the concentration of NO_x resulting from the proposed Project does not exceed the CAAQS or NAAQS with implementation of Mitigation Measure AQ-2 and Mitigation Measure AQ-3. As explained in Section 4.5.4, the ambient air quality dispersion model resulted in PM₁₀ exceeding the CAAQS, however this was due to background concentration data rather than pollutant concentrations resulting from the Project. Furthermore, although PM₁₀ exceeded the CAAQS due to high background pollutant concentrations, Project emissions of PM₁₀ were below applicable SILs. Therefore, the proposed Project would not conflict with or have any adverse impact on implementation of the 2017 Bay Area Clean Air Plan nor would the proposed Project disrupt or hinder implementation of any plan control measures with mitigation incorporated.

- ▶ Potential to result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (Criterion B) (Less than Significant, With Mitigation Incorporated).

As shown in Table 4-6, the proposed Project would result in a net emissions increase for PM₁₀, PM_{2.5}, CO, NO_x, SO_x and ROG on a daily and annual basis. The Project region is nonattainment for PM_{2.5} and 8-hour ozone. All net emissions increases of PM₁₀, PM_{2.5}, CO, SO_x and ROG are below the BAAQMD CEQA thresholds of significance. The net emissions increase of NO_x from operational emissions is above the BAAQMD significance threshold, but below the CAAQS and NAAQS with implementation of Mitigation Measure AQ-2 and Mitigation Measure AQ-3. NO_x emissions from routine operation of the 53 proposed generators will be mitigated through procurement of NO_x emission offsets. NO_x emissions from construction impacts will be mitigated through Mitigation Measure AQ-1.

Per the ambient air dispersion model results, the concentration of PM₁₀ is above the 24-hour and Annual CAAQS when cumulated with background concentration data available from BAAQMD ambient air monitors. However, the concentration of PM₁₀ resulting from the proposed Project alone is significantly below the CAAQS and below the applicable SIL.

Therefore, the proposed Project's operational emissions will be less than significant with mitigation incorporated. Because the proposed Project does not conflict with any applicable air quality plans with mitigation incorporated, the proposed Project would also not contribute to cumulatively considerable air quality impacts.

4.8.3 Impact: Air Quality Criteria C and D

The following discuss the Project's air quality impact based on air quality significance Criteria C and D.

- ▶ Potential to expose sensitive receptors to substantial pollutant concentrations (Criterion C) (Less than Significant, No Mitigation Required).

The primary air toxic source associated with the proposed Project is DPM from the operation of the 53 proposed generators. Health risk to local receptors is analyzed using dispersion modeling as presented above in Sections 4.3 through 4.6. The results of the health risk assessment shown in Table 4-12 and 4-14 demonstrate the highest cancer, chronic, and acute risks as a result of this Project are below BAAQMD's thresholds of significance for Risks and Hazards. Additionally, cumulative health risk impacts were assessed for all sources within 1,000 feet of the Project boundary (per BAAQMD CEQA Air Quality Guidelines) and are below the BAAQMD CEQA threshold of significance for cumulative health risk impacts. Further, the Project would result in an ambient PM_{2.5} increase of 0.039 µg/m³ which is well below the significance threshold of 0.3 µg/m³ and is therefore considered to be a less than significant impact. Additionally, as summarized in Table 4-14 above, cumulative impacts of PM_{2.5} are also below the cumulative threshold of significance of 0.8 µg/m³.

Therefore, no significant health risks are expected to occur from the operations of the proposed Project and no mitigation is required.

- ▶ Potential to result in other emissions (such as those leading to odors) adversely affecting a substantial number of people (Criterion D) (Less than Significant, No Mitigation Required).

The proposed Project would not involve the development of the types of land uses that would result in emissions that are typically associated with odor issues, such as wastewater (sewage) treatment plants, landfills, composting facilities, refineries, or chemical plants. Nor would the Project locate sensitive receptors within proximity of these types of odor-producing sources. Therefore, the proposed Project would not result in impacts associated with odor.

4.8.4 Impact: Greenhouse Gases Criteria A and B

The following discuss the Project's impact based on GHG significance Criteria A and B.

- ▶ Potential to generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment (Criterion A) (Less than Significant, No Mitigation Required).

The proposed Project's operational emissions are presented in Table 4-6 above and are compared to the BAAQMD threshold of significance applicable to the GHG emissions from stationary sources. GHG emissions associated with the proposed Project would be well below the 10,000 MT CO_{2e} per year significance

threshold. The proposed Project's operational emissions are therefore considered to have less than significant GHG impacts and no mitigation is required.

- ▶ Potential to conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. (Criterion B) (Less than Significant, No Mitigation Required).

None of the proposed Project elements, nor the Project as a whole, conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions. The proposed Project does not conflict with the goals of AB 32, will not hinder the implementation of any of the measures specified in the updated AB 32 Scoping Plan, and will comply with all applicable GHG measures already adopted under AB 32 and other authorities. Nor would the proposed Project conflict with the Santa Clara County Climate Action Plan. For these reasons, the proposed Project's GHG emissions are considered to have less than significant impact associated with potential conflicts with a plan, policy or regulation adopted for the purpose of reducing GHG emissions and no mitigation is required.

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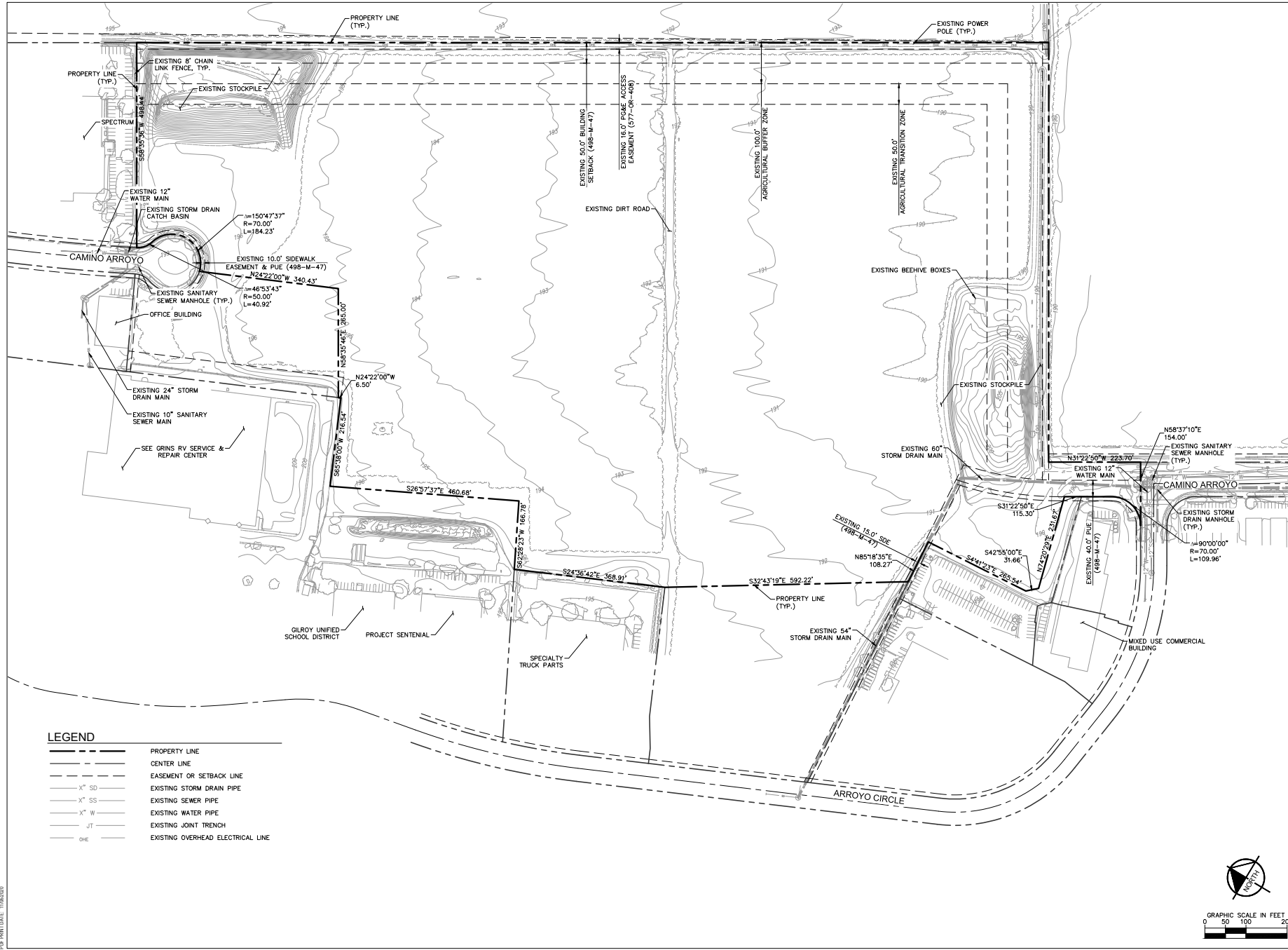
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APPENDIX A-1: SITE PLANS



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PROJECT DELIVERY PACKAGE
ISSUE FOR BID

PROJECT:
CAMINO ARROYO - BUILDING 1

SHEET TITLE:
EXISTING CONDITIONS

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LEGEND

(Dashed line)	PROPERTY LINE
(Solid line)	CENTER LINE
(Dotted line)	EASEMENT OR SETBACK LINE
(Line with 'SD' symbol)	EXISTING STORM DRAIN PIPE
(Line with 'SS' symbol)	EXISTING SEWER PIPE
(Line with 'W' symbol)	EXISTING WATER PIPE
(Line with 'JT' symbol)	EXISTING JOINT TRENCH
(Line with 'OE' symbol)	EXISTING OVERHEAD ELECTRICAL LINE

REVISIONS

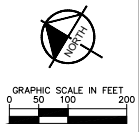
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B	18SEP2020	ISSUE FOR BOX REVIEW
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D	08NOV2020	ISSUE FOR BID

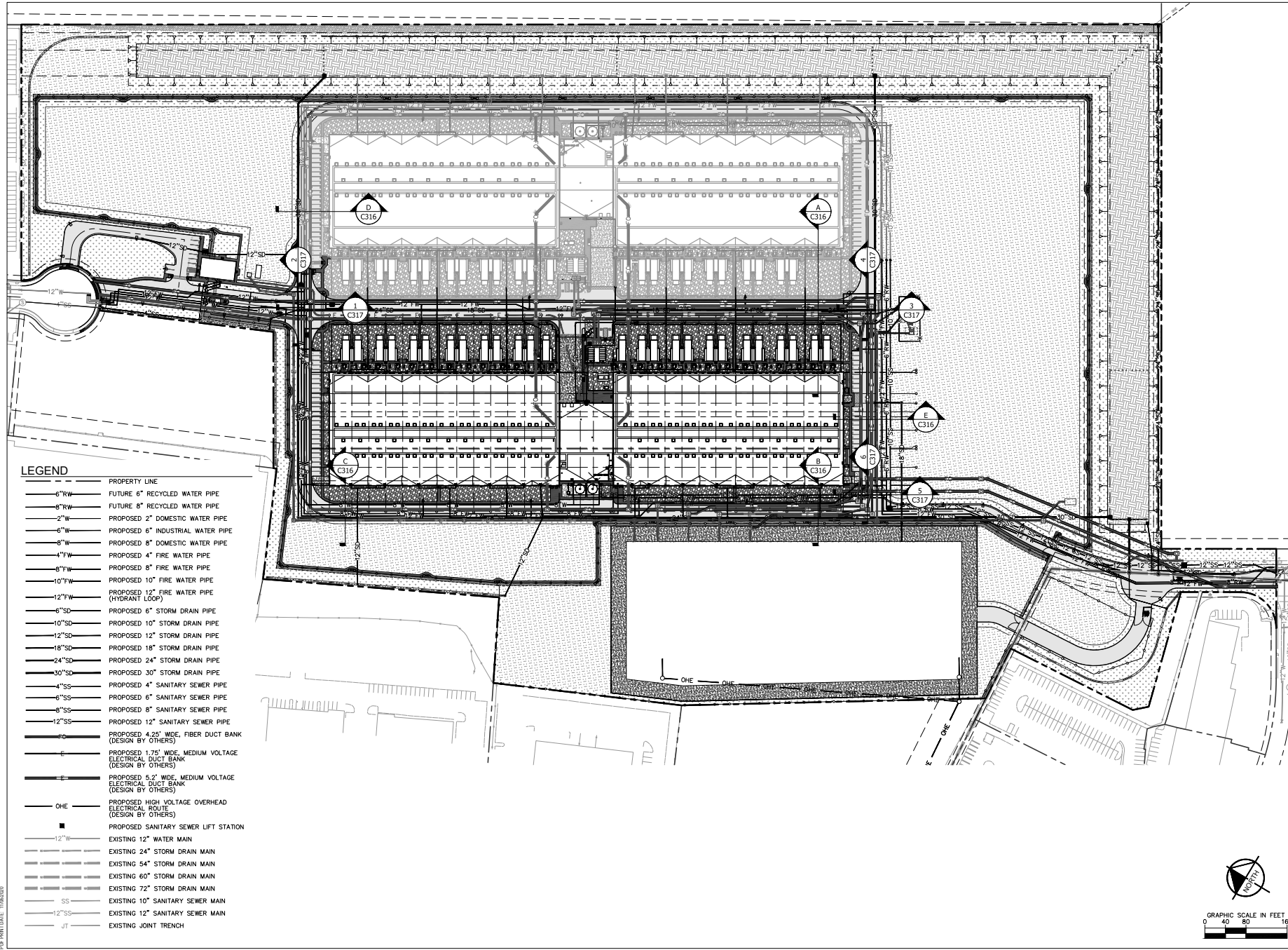
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ISSUE DATE: 08NOV2020 KH PROJECT: M0191315002
 DESIGNED: JAK ENGINEER: MRJ
 DRAWING NUMBER: **C100**

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LEGEND

---	PROPERTY LINE
---	6"RW FUTURE 6" RECYCLED WATER PIPE
---	8"RW FUTURE 8" RECYCLED WATER PIPE
---	2"W PROPOSED 2" DOMESTIC WATER PIPE
---	6"W PROPOSED 6" INDUSTRIAL WATER PIPE
---	8"W PROPOSED 8" DOMESTIC WATER PIPE
---	4"FW PROPOSED 4" FIRE WATER PIPE
---	8"FW PROPOSED 8" FIRE WATER PIPE
---	10"FW PROPOSED 10" FIRE WATER PIPE
---	12"FW PROPOSED 12" FIRE WATER PIPE (HYDRANT LOOP)
---	6"SD PROPOSED 6" STORM DRAIN PIPE
---	10"SD PROPOSED 10" STORM DRAIN PIPE
---	12"SD PROPOSED 12" STORM DRAIN PIPE
---	18"SD PROPOSED 18" STORM DRAIN PIPE
---	24"SD PROPOSED 24" STORM DRAIN PIPE
---	30"SD PROPOSED 30" STORM DRAIN PIPE
---	4"SS PROPOSED 4" SANITARY SEWER PIPE
---	6"SS PROPOSED 6" SANITARY SEWER PIPE
---	8"SS PROPOSED 8" SANITARY SEWER PIPE
---	12"SS PROPOSED 12" SANITARY SEWER PIPE
---	PROPOSED 4.25' WIDE FIBER DUCT BANK (DESIGN BY OTHERS)
---	PROPOSED 1.75' WIDE MEDIUM VOLTAGE ELECTRICAL DUCT BANK (DESIGN BY OTHERS)
---	PROPOSED 5.2' WIDE MEDIUM VOLTAGE ELECTRICAL DUCT BANK (DESIGN BY OTHERS)
---	PROPOSED HIGH VOLTAGE OVERHEAD ELECTRICAL ROUTE (DESIGN BY OTHERS)
■	PROPOSED SANITARY SEWER LIFT STATION
---	EXISTING 12" WATER MAIN
---	EXISTING 24" STORM DRAIN MAIN
---	EXISTING 54" STORM DRAIN MAIN
---	EXISTING 60" STORM DRAIN MAIN
---	EXISTING 72" STORM DRAIN MAIN
---	SS EXISTING 10" SANITARY SEWER MAIN
---	12"SS EXISTING 12" SANITARY SEWER MAIN
---	JT EXISTING JOINT TRENCH

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PROJECT: **CAMINO ARROYO - BUILDING 1**

SHEET TITLE: **OVERALL UTILITY PLAN**

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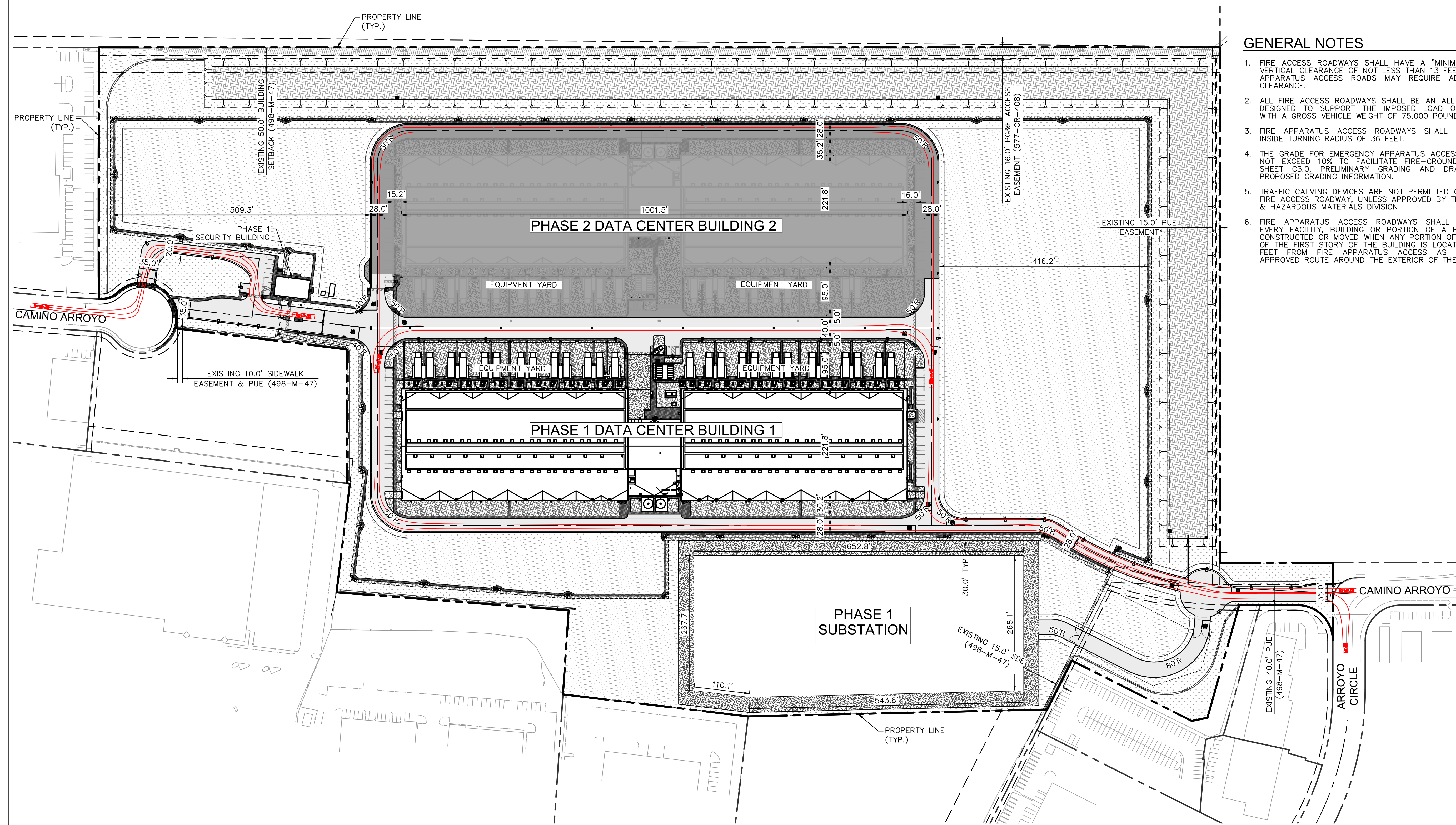
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 DESIGNED: JAK ENGINEER: MRJ
 DRAWING NUMBER: **C300**

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GENERAL NOTES

1. FIRE ACCESS ROADWAYS SHALL HAVE A "MINIMUM" UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES. AERIAL APPARATUS ACCESS ROADS MAY REQUIRE ADDITIONAL VERTICAL CLEARANCE.
2. ALL FIRE ACCESS ROADWAYS SHALL BE AN ALL-WEATHER SURFACE DESIGNED TO SUPPORT THE IMPOSED LOAD OF FIRE APPARATUS WITH A GROSS VEHICLE WEIGHT OF 75,000 POUNDS.
3. FIRE APPARATUS ACCESS ROADWAYS SHALL HAVE A "MINIMUM" INSIDE TURNING RADIUS OF 36 FEET.
4. THE GRADE FOR EMERGENCY APPARATUS ACCESS ROADWAYS SHALL NOT EXCEED 10% TO FACILITATE FIRE-GROUND OPERATIONS. SEE SHEET C3.0, PRELIMINARY GRADING AND DRAINAGE PLAN, FOR PROPOSED GRADING INFORMATION.
5. TRAFFIC CALMING DEVICES ARE NOT PERMITTED ON ANY DESIGNATED FIRE ACCESS ROADWAY, UNLESS APPROVED BY THE FIRE PREVENTION & HAZARDOUS MATERIALS DIVISION.
6. FIRE APPARATUS ACCESS ROADWAYS SHALL BE PROVIDED FOR EVERY FACILITY, BUILDING OR PORTION OF A BUILDING HEREAFTER CONSTRUCTED OR MOVED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY OF THE BUILDING IS LOCATED MORE THAN 150 FEET FROM FIRE APPARATUS ACCESS AS MEASURED BY AN APPROVED ROUTE AROUND THE EXTERIOR OF THE BUILDING.

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PROJECT DELIVERY PACKAGE
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PROJECT: **CAMINO ARROYO - BUILDING 1**
 SHEET TITLE: **FIRE TRUCK CIRCULATION PLAN**
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REVISIONS

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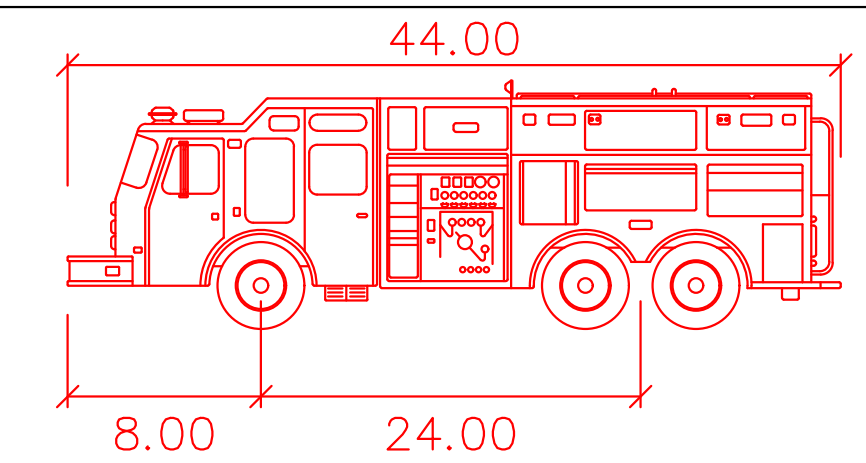
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LEGEND

	PROPERTY LINE		BIORETENTION AREA
	CENTERLINE		PHASE 2 CONSTRUCTION PER SEPARATE PERMIT & PACKAGE.
	PROPOSED FENCE		
	ASPHALT CONCRETE PAVEMENT		
	CONCRETE SIDEWALK		
	HEAVY DUTY PAVEMENT		
	5.0' PLANTING BARRIER. SEE LANDSCAPE PLANS FOR DETAILS.		
	GRAVEL		
	HYDROSEEDING AREA. SEE LANDSCAPE PLANS FOR DETAILS.		
	LANDSCAPE AREA. SEE LANDSCAPE PLANS FOR DETAILS.		

DESIGN TRUCK



Pumper Fire Truck

Width : 8.50 feet
 Track : 8.50 feet
 Lock to Lock Time : 6.0 seconds
 Steering Angle : 37.8 degrees

PHASE 1 DATA CENTER BUILDING 1 DATA

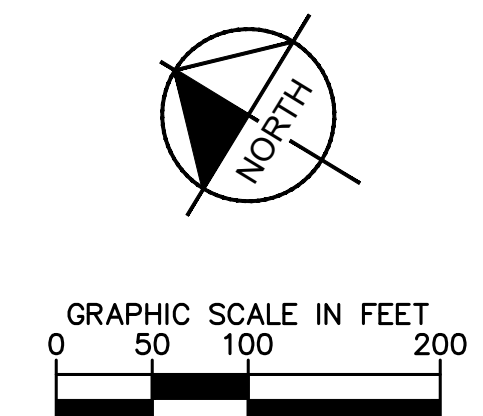
BUILDING CONSTRUCTION TYPE:	IIB
TOTAL BUILDING SQUARE FOOTAGE:	±218,000 SF
REQUIRED FIRE FLOW (PER CFC TABLE B105.1, BEFORE REDUCTION):	8,000 GPM
MINIMUM REQUIRED HYDRANTS (PER CFC TABLE C102.1):	8 HYDRANTS
HYDRANTS PROVIDED:	10 HYDRANTS
AVERAGE FIRE HYDRANT SPACING:	215 LF

PHASE 2 DATA CENTER BUILDING 2 DATA

BUILDING CONSTRUCTION TYPE:	IIB
TOTAL BUILDING SQUARE FOOTAGE:	±218,000 SF
REQUIRED FIRE FLOW (PER CFC TABLE B105.1, BEFORE REDUCTION):	8,000 GPM
MINIMUM REQUIRED HYDRANTS (PER CFC TABLE C102.1):	8 HYDRANTS
HYDRANTS PROVIDED:	10 HYDRANTS
AVERAGE FIRE HYDRANT SPACING:	215 LF

PHASE 1 SECURITY BUILDING DATA

BUILDING CONSTRUCTION TYPE:	IIB
TOTAL BUILDING SQUARE FOOTAGE:	±2,500 SF
REQUIRED FIRE FLOW (PER CFC TABLE B105.1, BEFORE REDUCTION):	1,500 GPM
MINIMUM REQUIRED HYDRANTS (PER CFC TABLE C102.1):	1 HYDRANT
HYDRANTS PROVIDED:	1 HYDRANT



APPENDIX A-2: EQUIPMENT SPECIFICATIONS

Cat® 3516C

Diesel Generator Sets



Image shown may not reflect actual configuration

Bore – mm (in)	170 (6.69)
Stroke – mm (in)	215 (8.46)
Displacement – L (in ³)	78 (4764.73)
Compression Ratio	14.7:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A3

Standby 60 Hz ekW (kVA)	Mission Critical 60 Hz ekW (kVA)	Prime 60 Hz ekW (kVA)	Continuous 60 Hz ekW (kVA)	Emissions Performance
2500 (3125)	2500 (3125)	2250 (2812)	2050 (2562)	U.S. EPA Stationary Emergency Use Only (Tier 2)

Standard Features

Cat® Diesel Engine

- Meets U.S. EPA Stationary Emergency Use Only (Tier 2) emission standards
- Reliable performance proven in thousands of applications worldwide

Generator Set Package

- Accepts 100% block load in one step and meets NFPA 110 loading requirements
- Conforms to ISO 8528-5 G3 load acceptance requirements
- Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Alternators

- Superior motor starting capability minimizes need for oversizing generator
- Designed to match performance and output characteristics of Cat diesel engines

Cooling System

- Cooling systems available to operate in ambient temperatures up to 50°C (122°F)
- Tested to ensure proper generator set cooling

EMCP 4 Control Panels

- User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirements
- Expansion modules and site specific programming for specific customer requirements

Warranty

- 24 months/1000-hour warranty for standby and mission critical ratings
- 12 months/unlimited hour warranty for prime and continuous ratings
- Extended service protection is available to provide extended coverage options

Worldwide Product Support

- Cat dealers have over 1,800 dealer branch stores operating in 200 countries
- Your local Cat dealer provides extensive post-sale support, including maintenance and repair agreements

Financing

- Caterpillar offers an array of financial products to help you succeed through financial service excellence
- Options include loans, finance lease, operating lease, working capital, and revolving line of credit
- Contact your local Cat dealer for availability in your region

Optional Equipment

Engine

Air Cleaner

- Single element
- Dual element

Muffler

- Industrial grade (15 dB)

Starting

- Standard batteries
- Oversized batteries
- Standard electric starter(s)
- Heavy duty electric starter(s)
- Air starter(s)
- Jacket water heater

Alternator

Output voltage

- 380V 6300V
- 440V 6600V
- 480V 6900V
- 600V 12470V
- 2400V 13200V
- 4160V 13800V

Temperature Rise (over 40°C ambient)

- 150°C
- 125°C/130°C
- 105°C
- 80°C

Winding type

- Random wound
- Form wound

Excitation

- Internal excitation (IE)
- Permanent magnet (PM)

Attachments

- Anti-condensation heater
- Stator and bearing temperature monitoring and protection

Power Termination

Type

- Bus bar
- Circuit breaker
- 1600A 2000A
- 2500A 3000A
- 3200A 4000A
- 5000A
- IEC UL
- 3-pole 4-pole
- Manually operated
- Electrically operated

Trip Unit

- LSI LSI-G
- LSI-G-P

Control System

Controller

- EMCP 4.2B
- EMCP 4.3
- EMCP 4.4

Attachments

- Local annunciator module
- Remote annunciator module
- Expansion I/O module
- Remote monitoring software

Charging

- Battery charger – 10A
- Battery charger – 20A
- Battery charger – 35A

Vibration Isolators

- Rubber
- Spring
- Seismic rated

Cat Connect

Connectivity

- Ethernet
- Cellular
- Satellite

Extended Service Options

Terms

- 2 year (prime)
- 3 year
- 5 year
- 10 year

Coverage

- Silver
- Gold
- Platinum
- Platinum Plus

Ancillary Equipment

- Automatic transfer switch (ATS)
- Uninterruptible power supply (UPS)
- Paralleling switchgear
- Paralleling controls

Certifications

- UL 2200 Listed
- CSA
- IBC seismic certification
- OSHPD pre-approval

Note: Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.

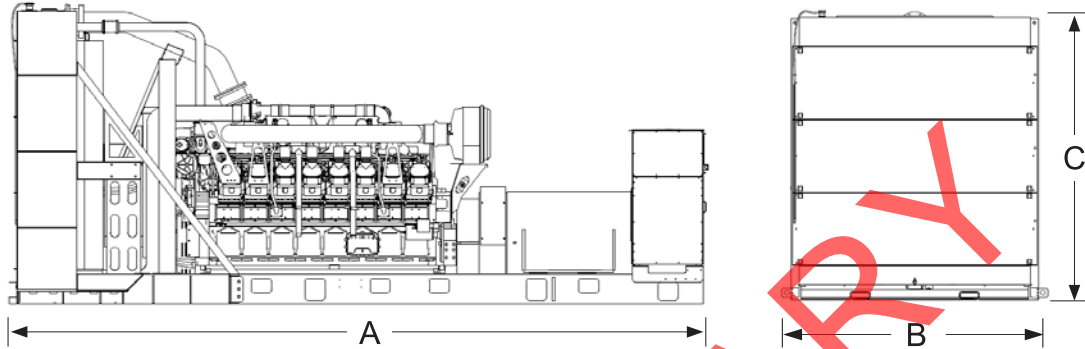


Package Performance

Performance	Standby	Mission Critical	Prime	Continuous
Frequency	60 Hz	60 Hz	60 Hz	60 Hz
Gen set power rating with fan	2500 ekW	2500 ekW	2250 ekW	2050 ekW
Gen set power rating with fan @ 0.8 power factor	3125 kVA	3125 kVA	2812 kVA	2562 kVA
Emissions	EPA ESE (TIER 2)	EPA ESE (TIER 2)	EPA ESE (TIER 2)	EPA ESE (TIER 2)
Performance number	EM1894-01	EM1895-02	DM8447-04	DM8268-03
Fuel Consumption				
100% load with fan – L/hr (gal/hr)	656.8 (175.3)	656.8 (175.3)	593.0 (156.6)	549.3 (145.1)
75% load with fan – L/hr (gal/hr)	510.8 (134.9)	510.8 (134.9)	467.8 (123.6)	435.6 (115.1)
50% load with fan – L/hr (gal/hr)	372.4 (98.4)	372.4 (98.4)	341.9 (90.3)	316.8 (83.7)
25% load with fan – L/hr (gal/hr)	219.3 (57.9)	219.3 (57.9)	203.0 (53.6)	188.9 (49.9)
Cooling System				
Radiator air flow restriction (system) – kPa (in. water)	0.12 (0.48)	0.12 (0.48)	0.12 (0.48)	0.12 (0.48)
Radiator air flow – m ³ /min (cfm)	2356 (83201)	2356 (83201)	2356 (83201)	2356 (83201)
Engine coolant capacity – L (gal)	233.0 (61.6)	233.0 (61.6)	233.0 (61.6)	233.0 (61.6)
Radiator coolant capacity – L (gal)	180.0 (47.6)	180.0 (47.6)	180.0 (47.6)	180.0 (47.6)
Total coolant capacity – L (gal)	413.0 (109.2)	413.0 (109.2)	413.0 (109.2)	413.0 (109.2)
Inlet Air				
Combustion air inlet flow rate – m ³ /min (cfm)	242.2 (721.2)	242.2 (721.2)	193.1 (6819.8)	183.8 (6491.7)
Exhaust System				
Exhaust stack gas temperature – °C (°F)	490.7 (915.2)	490.7 (915.2)	471.3 (880.4)	463.6 (866.5)
Exhaust gas flow rate – m ³ /min (cfm)	554.5 (19578.8)	554.5 (19578.8)	507.9 (17935.1)	476.5 (16826.7)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7 (27.0)	6.7 (27.0)	6.7 (27.0)	6.7 (27.0)
Heat Rejection				
Heat rejection to jacket water – kW (Btu/min)	826 (46992)	826 (46992)	777 (44160)	739 (42021)
Heat rejection to exhaust (total) – kW (Btu/min)	2502 (142265)	2502 (142265)	2243 (127532)	2092 (118949)
Heat rejection to aftercooler – kW (Btu/min)	786 (44723)	786 (44723)	690 (39224)	619 (35176)
Heat rejection to atmosphere from engine – kW (Btu/min)	161 (9146)	161 (9146)	150 (8542)	145 (8229)
Heat rejection from alternator – kW (Btu/min)	121 (6853)	121 (6853)	99 (5607)	94 (5368)
Emissions* (Nominal)				
NOx mg/Nm ³ (g/hp-h)	2349.1 (5.32)	2349.1 (5.32)	2206.7 (4.95)	2038.1 (4.62)
CO mg/Nm ³ (g/hp-h)	195.4 (0.42)	195.4 (0.42)	141.2 (0.30)	124.8 (0.27)
HC mg/Nm ³ (g/hp-h)	42.1 (0.10)	42.1 (0.10)	44.4 (0.11)	49.2 (0.12)
PM mg/Nm ³ (g/hp-h)	14.1 (0.04)	14.1 (0.04)	10.9 (0.03)	11.0 (0.03)
Emissions* (Potential Site Variation)				
NOx mg/Nm ³ (g/hp-h)	2818.9 (6.38)	2818.9 (6.38)	2648.0 (5.94)	2445.8 (5.55)
CO mg/Nm ³ (g/hp-h)	351.8 (0.76)	351.8 (0.76)	254.2 (0.55)	224.6 (0.49)
HC mg/Nm ³ (g/hp-h)	55.9 (0.14)	55.9 (0.14)	59.1 (0.15)	65.5 (0.16)
PM mg/Nm ³ (g/hp-h)	19.7 (0.05)	19.7 (0.05)	15.2 (0.04)	15.3 (0.04)

*mg/Nm³ levels are corrected to 5% O₂. Contact your local Cat dealer for further information.

Weights and Dimensions



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
6800 (267.7)	2339 (92.1)	2997 (118.0)	17 590 (38,780)

Note: For reference only. Do not use for installation design.
Contact your local Cat dealer for precise weights and dimensions.

Ratings Definitions

Standby

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Mission Critical

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 85% of the mission critical power rating. Typical peak demand up to 100% of rated power for up to 5% of the operating time. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Prime

Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

Continuous

Output available with non-varying load for an unlimited time. Average power output is 70-100% of the continuous power rating. Typical peak demand is 100% of continuous rated kW for 100% of the operating hours.

Applicable Codes and Standards

AS 1359, CSA C22.2 No. 100-04, UL 142, UL 489, UL 869, UL 2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC 60034-1, ISO 3046, ISO 8528, NEMA MG1-22, NEMA MG1-33, 2014/35/EU, 2006/42/EC, 2014/30/EU.

Note: Codes may not be available in all model configurations. Please consult your local Cat dealer for availability.

Data Center Applications

- ISO 8528-1 Data Center Power (DCP) compliant per DCP application of Cat diesel generator set prime power rating.
- All ratings Tier III/Tier IV compliant per Uptime Institute requirements.
- All ratings ANSI/TIA-942 compliant for Rated-1 through Rated-4 data centers.

Fuel Rates

Fuel rates are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.)

www.cat.com/electricpower

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Materials and specifications are subject to change without notice.
The International System of Units (SI) is used in this publication.

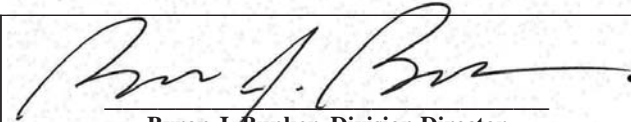


**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2020 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT**

**OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105**

Certificate Issued To: Caterpillar Inc.
(U.S. Manufacturer or Importer)
Certificate Number: LCPXL78.1NZS-022

Effective Date:
07/25/2019
Expiration Date:
12/31/2020


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
07/25/2019
Revision Date:
N/A

Model Year: 2020
Manufacturer Type: Original Engine Manufacturer
Engine Family: LCPXL78.1NZS

Mobile/Stationary Indicator: Stationary
Emissions Power Category: kW>560
Fuel Type: Diesel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: Electronic Control, Engine Design Modification

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

PRELIMINARY

Performance Number: EM1894

Change Level: 04

SALES MODEL:	3516C	COMBUSTION:	DIRECT INJECTION
BRAND:	CAT	ENGINE SPEED (RPM):	1,800
ENGINE POWER (BHP):	3,634	HERTZ:	60
GEN POWER WITH FAN (EKW):	2,500.0	FAN POWER (HP):	130.1
COMPRESSION RATIO:	14.7	ASPIRATION:	TA
RATING LEVEL:	STANDBY	AFTERCOOLER TYPE:	ATAAC
PUMP QUANTITY:	1	AFTERCOOLER CIRCUIT TYPE:	JW+OC, ATAAC
FUEL TYPE:	DIESEL	INLET MANIFOLD AIR TEMP (F):	122
MANIFOLD TYPE:	DRY	JACKET WATER TEMP (F):	219.2
GOVERNOR TYPE:	ADEM3	TURBO CONFIGURATION:	PARALLEL
ELECTRONICS TYPE:	ADEM3	TURBO QUANTITY:	4
CAMSHAFT TYPE:	STANDARD	TURBOCHARGER MODEL:	GT6041BN-48T-1.10
IGNITION TYPE:	CI	CERTIFICATION YEAR:	2006
INJECTOR TYPE:	EUI	CRANKCASE BLOWBY RATE (FT3/HR):	3,619.4
FUEL INJECTOR:	3920221	FUEL RATE (RATED RPM) NO LOAD (GAL/HR):	16.0
UNIT INJECTOR TIMING (IN):	64.34	PISTON SPD @ RATED ENG SPD (FT/MIN):	2,539.4
REF EXH STACK DIAMETER (IN):	12		
MAX OPERATING ALTITUDE (FT):	2,953		

INDUSTRY	SUBINDUSTRY	APPLICATION
ELECTRIC POWER	STANDARD	PACKAGED GENSET
OIL AND GAS	LAND PRODUCTION	PACKAGED GENSET

General Performance Data

THIS STANDBY RATING IS FOR A STANDBY ONLY ENGINE ARRANGEMENT. RERATING THE ENGINE TO A PRIME OR CONTINUOUS RATING IS NOT PERMITTED.

THE INLET MANIFOLD AIR TEMP LISTED IN THE HEADER, AND IN THE GENERAL PERFORMANCE DATA, IS THE AVERAGE INLET MANIFOLD TEMP FRONT TO REAR ON THE ENGINE.

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	BRAKE MEAN EFF PRES (BMEP)	BRAKE SPEC FUEL CONSUMPTN (BSFC)	VOL FUEL CONSUMPTN (VFC)	INLET MFLD PRES	INLET MFLD TEMP	EXH MFLD TEMP	EXH MFLD PRES	ENGINE OUTLET TEMP
EKW	%	BHP	PSI	LB/BHP-HR	GAL/HR	IN-HG	DEG F	DEG F	IN-HG	DEG F
2,500.0	100	3,633	336	0.334	171.3	78.1	121.9	1,235.6	67.6	915.2
2,250.0	90	3,283	303	0.335	155.1	71.3	119.4	1,190.0	61.3	881.2
2,000.0	80	2,935	271	0.339	140.4	64.3	116.9	1,158.9	55.3	864.0
1,875.0	75	2,760	255	0.342	133.2	60.7	115.8	1,145.6	52.3	858.5
1,750.0	70	2,586	239	0.346	125.9	57.0	114.7	1,133.3	49.3	854.6
1,500.0	60	2,237	207	0.354	111.5	49.5	112.7	1,112.4	43.2	851.2
1,250.0	50	1,889	174	0.365	97.1	41.3	111.0	1,091.8	36.8	850.7
1,000.0	40	1,547	143	0.373	81.4	31.4	109.4	1,061.5	29.3	856.6
750.0	30	1,203	111	0.385	65.3	21.7	107.9	1,010.3	22.1	848.2
625.0	25	1,029	95	0.394	57.2	17.2	107.2	968.3	18.7	831.1
500.0	20	854	79	0.403	48.6	12.7	106.4	902.0	15.5	796.1
250.0	10	497	46	0.441	30.9	4.8	104.1	700.7	9.8	647.3

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	COMPRESSOR OUTLET PRES	COMPRESSOR OUTLET TEMP	WET INLET AIR VOL FLOW RATE	ENGINE OUTLET WET EXH GAS VOL FLOW RATE	WET INLET AIR MASS FLOW RATE	WET EXH GAS MASS FLOW RATE	WET EXH VOL FLOW RATE (32 DEG F AND 29.98 IN HG)	DRY EXH VOL FLOW RATE (32 DEG F AND 29.98 IN HG)
EKW	%	BHP	IN-HG	DEG F	CFM	CFM	LB/HR	LB/HR	FT3/MIN	FT3/MIN
2,500.0	100	3,633	85	466.7	7,212.2	19,578.8	32,046.3	33,260.4	7,001.7	6,362.4
2,250.0	90	3,283	78	443.0	6,831.8	17,980.7	30,219.3	31,318.8	6,593.0	6,013.7
2,000.0	80	2,935	70	417.8	6,404.5	16,560.6	28,284.6	29,277.2	6,151.5	5,625.4
1,875.0	75	2,760	66	404.7	6,173.3	15,893.2	27,261.3	28,202.4	5,928.1	5,427.1
1,750.0	70	2,586	63	391.2	5,929.9	15,232.6	26,196.0	27,086.8	5,698.4	5,222.0
1,500.0	60	2,237	55	363.5	5,411.9	13,879.0	23,947.5	24,739.5	5,205.5	4,779.1
1,250.0	50	1,889	46	334.6	4,843.3	12,413.0	21,444.3	22,133.2	4,657.5	4,283.2
1,000.0	40	1,547	36	297.5	4,121.4	10,609.5	18,262.0	18,840.0	3,963.0	3,647.2
750.0	30	1,203	25	249.8	3,423.0	8,763.8	15,175.3	15,640.3	3,294.6	3,037.8
625.0	25	1,029	21	223.4	3,104.6	7,844.6	13,765.1	14,171.8	2,988.1	2,760.8
500.0	20	854	16	197.2	2,791.2	6,823.5	12,376.2	12,722.2	2,671.7	2,476.1
250.0	10	497	7	152.3	2,237.9	4,800.2	9,917.6	10,136.8	2,132.0	1,999.8

Heat Rejection Data

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	REJECTION TO JACKET WATER	REJECTION TO ATMOSPHERE	REJECTION TO EXH	EXHAUST RECOVERY TO 350F	FROM OIL COOLER	FROM AFTERCOOLER	WORK ENERGY	LOW HEAT VALUE ENERGY	HIGH HEAT VALUE ENERGY
EKW	%	BHP	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN
2,500.0	100	3,633	46,992	9,146	142,265	79,907	19,835	44,723	154,077	372,403	396,702
2,250.0	90	3,283	44,242	8,557	127,929	70,449	17,960	39,380	139,243	337,204	359,207
2,000.0	80	2,935	41,477	8,162	116,879	63,561	16,262	34,167	124,444	305,311	325,233
1,875.0	75	2,760	40,076	8,007	111,588	60,518	15,425	31,612	117,053	289,608	308,505
1,750.0	70	2,586	38,657	7,874	106,293	57,637	14,588	29,085	109,651	273,881	291,752
1,500.0	60	2,237	35,755	7,684	95,729	52,220	12,915	24,201	94,874	242,485	258,307
1,250.0	50	1,889	32,626	7,527	85,184	46,626	11,245	19,401	80,109	211,118	224,893
1,000.0	40	1,547	29,235	7,262	72,693	40,153	9,427	13,873	65,583	176,995	188,544
750.0	30	1,203	25,476	6,784	59,425	32,726	7,565	8,706	51,005	142,037	151,305
625.0	25	1,029	23,394	6,435	52,542	28,568	6,621	6,496	43,653	124,317	132,429
500.0	20	854	21,006	5,995	44,739	23,683	5,624	4,534	36,223	105,594	112,484
250.0	10	497	15,737	5,026	27,795	12,371	3,578	1,916	21,074	67,181	71,564

Sound Data

SOUND PRESSURE DATA FOR THIS RATING CAN BE FOUND IN PERFORMANCE NUMBER - DM8779.

Emissions Data

RATED SPEED POTENTIAL SITE VARIATION: 1800 RPM

GENSET POWER WITH FAN	EKW	2,500.0	1,875.0	1,250.0	625.0	250.0
PERCENT LOAD	%	100	75	50	25	10
ENGINE POWER	BHP	3,633	2,760	1,889	1,029	497
TOTAL NOX (AS NO2)	G/HR	22,948	14,101	7,004	3,568	3,185
TOTAL CO	G/HR	2,726	1,304	1,092	1,496	2,098
TOTAL HC	G/HR	500	499	543	408	437
PART MATTER	G/HR	185.5	123.7	132.1	139.5	141.0
TOTAL NOX (AS NO2)	(CORR 5% O2) MG/NM3	2,818.9	2,229.5	1,544.3	1,352.7	2,230.2
TOTAL CO	(CORR 5% O2) MG/NM3	351.8	213.9	252.3	594.6	1,552.7
TOTAL HC	(CORR 5% O2) MG/NM3	55.9	72.8	108.8	140.7	282.4
PART MATTER	(CORR 5% O2) MG/NM3	19.7	16.5	25.8	48.5	88.2
TOTAL NOX (AS NO2)	(CORR 5% O2) PPM	1,373	1,086	752	659	1,086
TOTAL CO	(CORR 5% O2) PPM	281	171	202	476	1,242
TOTAL HC	(CORR 5% O2) PPM	104	136	203	263	527
TOTAL NOX (AS NO2)	G/HP-HR	6.38	5.15	3.74	3.50	6.47
TOTAL CO	G/HP-HR	0.76	0.48	0.58	1.47	4.26
TOTAL HC	G/HP-HR	0.14	0.18	0.29	0.40	0.89
PART MATTER	G/HP-HR	0.05	0.05	0.07	0.14	0.29
TOTAL NOX (AS NO2)	LB/HR	50.59	31.09	15.44	7.87	7.02
TOTAL CO	LB/HR	6.01	2.88	2.41	3.30	4.62
TOTAL HC	LB/HR	1.10	1.10	1.20	0.90	0.96
PART MATTER	LB/HR	0.41	0.27	0.29	0.31	0.31

RATED SPEED NOMINAL DATA: 1800 RPM

GENSET POWER WITH FAN	EKW	2,500.0	1,875.0	1,250.0	625.0	250.0
PERCENT LOAD	%	100	75	50	25	10
ENGINE POWER	BHP	3,633	2,760	1,889	1,029	497
TOTAL NOX (AS NO2)	G/HR	19,123	11,751	5,837	2,974	2,654
TOTAL CO	G/HR	1,515	725	607	831	1,165
TOTAL HC	G/HR	376	375	408	307	329
TOTAL CO2	KG/HR	1,740	1,340	966	559	296
PART MATTER	G/HR	132.5	88.4	94.3	99.6	100.7
TOTAL NOX (AS NO2)	(CORR 5% O2) MG/NM3	2,349.1	1,857.9	1,286.9	1,127.3	1,858.5
TOTAL CO	(CORR 5% O2) MG/NM3	195.4	118.8	140.1	330.3	862.6
TOTAL HC	(CORR 5% O2) MG/NM3	42.1	54.8	81.8	105.8	212.3
PART MATTER	(CORR 5% O2) MG/NM3	14.1	11.8	18.4	34.7	63.0
TOTAL NOX (AS NO2)	(CORR 5% O2) PPM	1,144	905	627	549	905

PERFORMANCE DATA[EM1894]

May 14, 2020

TOTAL CO	(CORR 5% O2)	PPM	156	95	112	264	690
TOTAL HC	(CORR 5% O2)	PPM	79	102	153	197	396
TOTAL NOX (AS NO2)		G/HP-HR	5.32	4.30	3.12	2.92	5.39
TOTAL CO		G/HP-HR	0.42	0.26	0.32	0.82	2.37
TOTAL HC		G/HP-HR	0.10	0.14	0.22	0.30	0.67
PART MATTER		G/HP-HR	0.04	0.03	0.05	0.10	0.20
TOTAL NOX (AS NO2)		LB/HR	42.16	25.91	12.87	6.56	5.85
TOTAL CO		LB/HR	3.34	1.60	1.34	1.83	2.57
TOTAL HC		LB/HR	0.83	0.83	0.90	0.68	0.72
TOTAL CO2		LB/HR	3,836	2,955	2,130	1,233	654
PART MATTER		LB/HR	0.29	0.19	0.21	0.22	0.22
OXYGEN IN EXH		%	9.4	10.4	11.3	12.2	14.4
DRY SMOKE OPACITY		%	1.7	1.4	1.9	2.6	4.0
BOSCH SMOKE NUMBER			0.58	0.49	0.62	0.92	1.27

Regulatory Information

EPA EMERGENCY STATIONARY		2011 - ----	
GASEOUS EMISSIONS DATA MEASUREMENTS PROVIDED TO THE EPA ARE CONSISTENT WITH THOSE DESCRIBED IN EPA 40 CFR PART 60 SUBPART IIII AND ISO 8178 FOR MEASURING HC, CO, PM, AND NOX. THE "MAX LIMITS" SHOWN BELOW ARE WEIGHTED CYCLE AVERAGES AND ARE IN COMPLIANCE WITH THE EMERGENCY STATIONARY REGULATIONS.			
Locality	Agency	Regulation	Tier/Stage
U.S. (INCL CALIF)	EPA	STATIONARY	EMERGENCY STATIONARY
			Max Limits - G/BKW - HR
			CO: 3.5 NOx + HC: 6.4 PM: 0.20

Altitude Derate Data

ALTITUDE CORRECTED POWER CAPABILITY (BHP)

AMBIENT OPERATING TEMP (F)	30	40	50	60	70	80	90	100	110	120	NORMAL
ALTITUDE (FT)											
0	3,634	3,634	3,634	3,634	3,634	3,634	3,634	3,634	3,634	3,634	3,634
1,000	3,634	3,634	3,634	3,634	3,634	3,634	3,634	3,634	3,634	3,561	3,634
2,000	3,634	3,634	3,634	3,634	3,634	3,634	3,634	3,604	3,541	3,480	3,634
3,000	3,628	3,628	3,628	3,628	3,628	3,603	3,537	3,474	3,413	3,354	3,628
4,000	3,504	3,504	3,504	3,504	3,504	3,471	3,408	3,347	3,289	3,232	3,504
5,000	3,384	3,384	3,384	3,384	3,384	3,344	3,283	3,225	3,168	3,113	3,384
6,000	3,269	3,269	3,269	3,269	3,269	3,221	3,162	3,105	3,051	2,998	3,269
7,000	3,159	3,159	3,159	3,159	3,159	3,101	3,044	2,990	2,937	2,887	3,159
8,000	3,052	3,052	3,052	3,052	3,041	2,985	2,930	2,878	2,827	2,779	3,052
9,000	2,950	2,950	2,950	2,950	2,926	2,872	2,820	2,769	2,721	2,674	2,950
10,000	2,851	2,851	2,851	2,851	2,815	2,763	2,713	2,664	2,617	2,544	2,851

Cross Reference

Test Spec	Setting	Engine Arrangement	Engineering Model	Engineering Model Version	Start Effective Serial Number	End Effective Serial Number
4577175	LL1857	5084280	GS336	-	SBK02483	
4581566	LL6759	5157721	PG243	-	LYM00001	

Supplementary Data

Type	Classification	Performance Number
SOUND	SOUND PRESSURE	DM8779

Performance Parameter Reference

Parameters Reference:DM9600-11
PERFORMANCE DEFINITIONS

PERFORMANCE DEFINITIONS DM9600

APPLICATION:

Engine performance tolerance values below are representative of a typical production engine tested in a calibrated dynamometer test cell at SAE J1995 standard reference conditions. Caterpillar maintains ISO9001:2000 certified quality management systems for engine test Facilities to assure accurate calibration of test equipment. Engine test data is corrected in accordance with SAE J1995. Additional reference material SAE J1228, J1349, ISO 8665, 3046-1:2002E, 3046-3:1989, 1585, 2534, 2288, and 9249 may apply in part or are similar to SAE J1995. Special engine rating request (SERR) test data shall be noted.

PERFORMANCE PARAMETER TOLERANCE FACTORS:

Power +/- 3%

Torque +/- 3%

Exhaust stack temperature +/- 8%

Inlet airflow +/- 5%

Intake manifold pressure-gage +/- 10%

Exhaust flow +/- 6%

Specific fuel consumption +/- 3%

Fuel rate +/- 5%

Specific DEF consumption +/- 3%

DEF rate +/- 5%

Heat rejection +/- 5%

Heat rejection exhaust only +/- 10%

Heat rejection CEM only +/- 10%

Heat Rejection values based on using treated water.

Torque is included for truck and industrial applications, do not use for Gen Set or steady state applications.

On C7 - C18 engines, at speeds of 1100 RPM and under these values are provided for reference only, and may not meet the tolerance listed.

These values do not apply to C280/3600. For these models, see the tolerances listed below.

C280/3600 HEAT REJECTION TOLERANCE FACTORS:

Heat rejection +/- 10%

Heat rejection to Atmosphere +/- 50%

Heat rejection to Lube Oil +/- 20%

Heat rejection to Aftercooler +/- 5%

TEST CELL TRANSDUCER TOLERANCE FACTORS:

Torque +/- 0.5%

Speed +/- 0.2%

Fuel flow +/- 1.0%

Temperature +/- 2.0 C degrees

Intake manifold pressure +/- 0.1 kPa

OBSERVED ENGINE PERFORMANCE IS CORRECTED TO SAE J1995 REFERENCE AIR AND FUEL CONDITIONS.

REFERENCE ATMOSPHERIC INLET AIR

FOR 3500 ENGINES AND SMALLER

SAE J1228 AUG2002 for marine engines, and J1995 JAN2014 for other engines, reference atmospheric pressure is 100 KPA (29.61 in hg), and standard temperature is 25deg C (77 deg F) at 30% relative humidity at the stated aftercooler water temp, or inlet manifold temp.

FOR 3600 ENGINES

Engine rating obtained and presented in accordance with ISO 3046/1 and SAE J1995 JAN2014 reference atmospheric pressure is 100 KPA (29.61 in hg), and standard temperature is 25deg C (77 deg F) at 30% relative humidity and 150M altitude at the stated aftercooler water temperature.

MEASUREMENT LOCATION FOR INLET AIR TEMPERATURE

Location for air temperature measurement air cleaner inlet at stabilized operating conditions.

REFERENCE EXHAUST STACK DIAMETER

The Reference Exhaust Stack Diameter published with this dataset is only used for the calculation of Smoke Opacity values displayed in this dataset. This value does not necessarily represent the actual stack diameter of the engine due to the variety of exhaust stack adapter options available. Consult the price list, engine order or general dimension drawings for the actual stack diameter size ordered or options available.

REFERENCE FUEL

DIESEL

Reference fuel is #2 distillate diesel with a 35API gravity;

A lower heating value is 42,780 KJ/KG (18,390 BTU/LB) when used at 29 deg C (84.2 deg F), where the density is 838.9 G/Liter (7.001 Lbs/Gal).

GAS

Reference natural gas fuel has a lower heating value of 33.74 KJ/L (905 BTU/CU Ft). Low BTU ratings are based on 18.64 KJ/L (500 BTU/CU FT) lower heating value gas. Propane ratings are based on 87.56 KJ/L (2350 BTU/CU Ft) lower heating value gas.

PERFORMANCE DATA[EM1894]

ENGINE POWER (NET) IS THE CORRECTED FLYWHEEL POWER (GROSS) LESS EXTERNAL AUXILIARY LOAD

Engine corrected gross output includes the power required to drive standard equipment; lube oil, scavenge lube oil, fuel transfer, common rail fuel, separate circuit aftercooler and jacket water pumps. Engine net power available for the external (flywheel) load is calculated by subtracting the sum of auxiliary load from the corrected gross flywheel out put power. Typical auxiliary loads are radiator cooling fans, hydraulic pumps, air compressors and battery charging alternators. For Tier 4 ratings additional Parasitic losses would also include Intake, and Exhaust Restrictions.

ALTITUDE CAPABILITY

Altitude capability is the maximum altitude above sea level at standard temperature and standard pressure at which the engine could develop full rated output power on the current performance data set.

Standard temperature values versus altitude could be seen on TM2001.

When viewing the altitude capability chart the ambient temperature is the inlet air temp at the compressor inlet.

Engines with ADEM MEUI and HEUI fuel systems operating at conditions above the defined altitude capability derate for atmospheric pressure and temperature conditions outside the values defined, see TM2001.

Mechanical governor controlled unit injector engines require a setting change for operation at conditions above the altitude defined on the engine performance sheet. See your Caterpillar technical representative for non standard ratings.

REGULATIONS AND PRODUCT COMPLIANCE

TMI Emissions information is presented at 'nominal' and 'Potential Site Variation' values for standard ratings. No tolerances are applied to the emissions data. These values are subject to change at any time. The controlling federal and local emission requirements need to be verified by your Caterpillar technical representative.

Customer's may have special emission site requirements that need to be verified by the Caterpillar Product Group engineer.

EMISSION CYCLE LIMITS:

Cycle emissions Max Limits apply to cycle-weighted averages only. Emissions at individual load points may exceed the cycle-weighted limit.

EMISSIONS DEFINITIONS:

Emissions : DM1176

EMISSION CYCLE DEFINITIONS

1. For constant-speed marine engines for ship main propulsion, including,diesel-electric drive, test cycle E2 shall be applied, for controllable-pitch propeller sets test cycle E2 shall be applied.
2. For propeller-law-operated main and propeller-law-operated auxiliary engines the test cycle E3 shall be applied.
3. For constant-speed auxiliary engines test cycle D2 shall be applied.
4. For variable-speed, variable-load auxiliary engines, not included above, test cycle C1 shall be applied.

HEAT REJECTION DEFINITIONS:

Diesel Circuit Type and HHV Balance : DM9500

HIGH DISPLACEMENT (HD) DEFINITIONS:

3500: EM1500

RATING DEFINITIONS:

Agriculture : TM6008

Fire Pump : TM6009

Generator Set : TM6035

Generator (Gas) : TM6041

Industrial Diesel : TM6010

Industrial (Gas) : TM6040

Irrigation : TM5749

Locomotive : TM6037

Marine Auxiliary : TM6036

Marine Prop (Except 3600) : TM5747

Marine Prop (3600 only) : TM5748

MSHA : TM6042

Oil Field (Petroleum) : TM6011

Off-Highway Truck : TM6039

On-Highway Truck : TM6038

SOUND DEFINITIONS:

Sound Power : DM8702

Sound Pressure : TM7080

Date Released : 07/10/19

PRELIMINARY

REV:	DATE:	DESCRIPTION:	BY:
A	05-01-20	KS INITIAL SUBMITTAL	KS
APP BY:	DATE:		

ISSUED FOR APPROVAL

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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
DO NOT SCALE

DRAWN BY:	DATE:
JO	03-10-20
CHECKED BY:	DATE:
SC	03-10-20
APPROVED BY:	DATE:
SC	03-10-20

PROJECT NAME:
AMAZON MASTER OPTDC LEFT HAND

PROJECT LOCATION:

CLIENT NAME:
PETERSON POWER

QUOTE NUMBER:
--

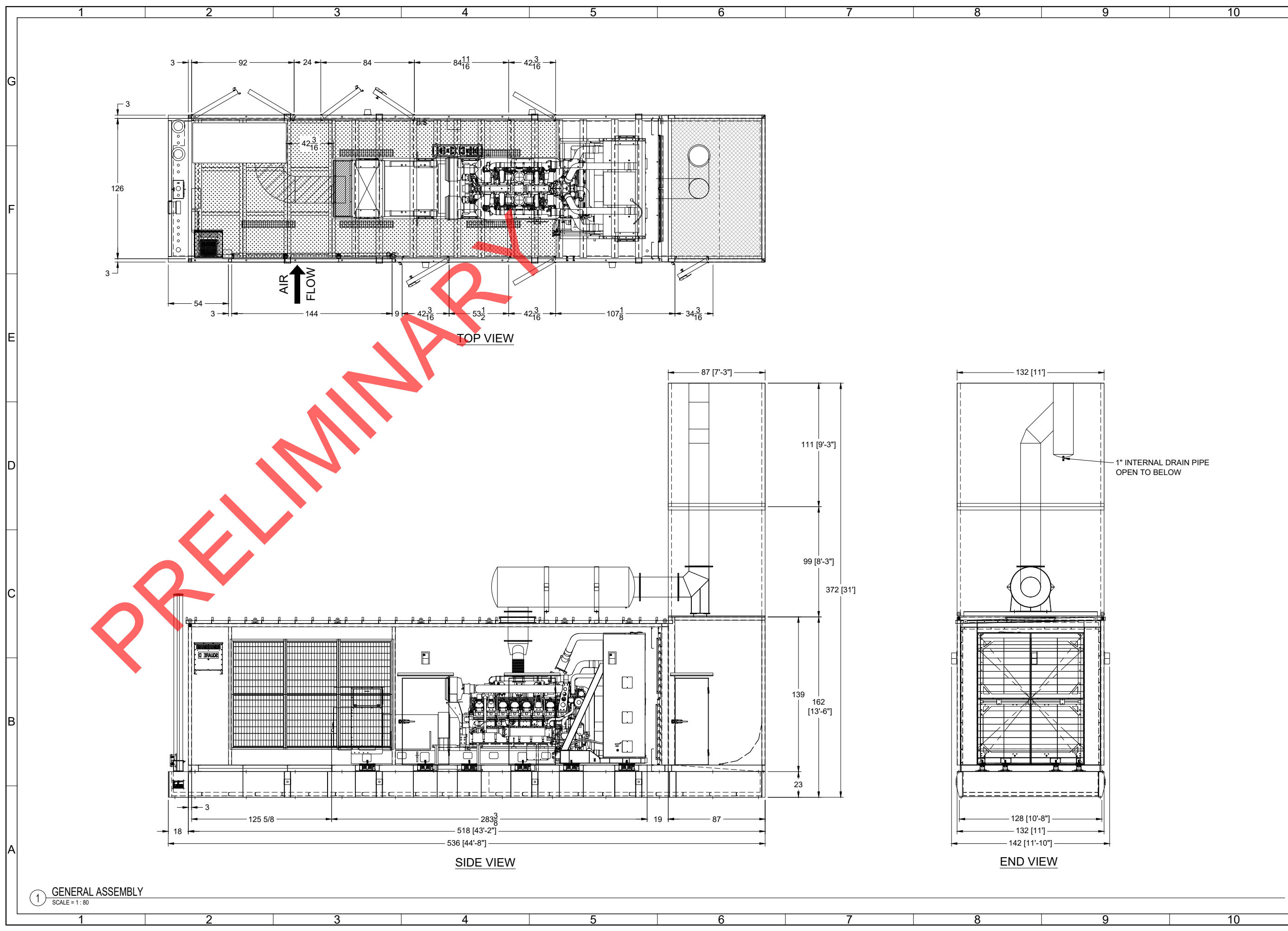
CUSTOMER PO NUMBER:
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JOB NUMBER:
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DRAWING DESCRIPTION:
GENERAL ASSEMBLY

DRAWING NO:
G-101

SHEET 3 OF 19



1 GENERAL ASSEMBLY
SCALE = 1:80

Standby & Prime: 60Hz



Image shown might not reflect actual configuration

Engine Model	Cat® C18 ACERT™ In-line 6, 4-cycle diesel
Bore x Stroke	145mm x 183mm (5.7in x 7.2in)
Displacement	18.1 L (1106 in³)
Compression Ratio	14.5:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4

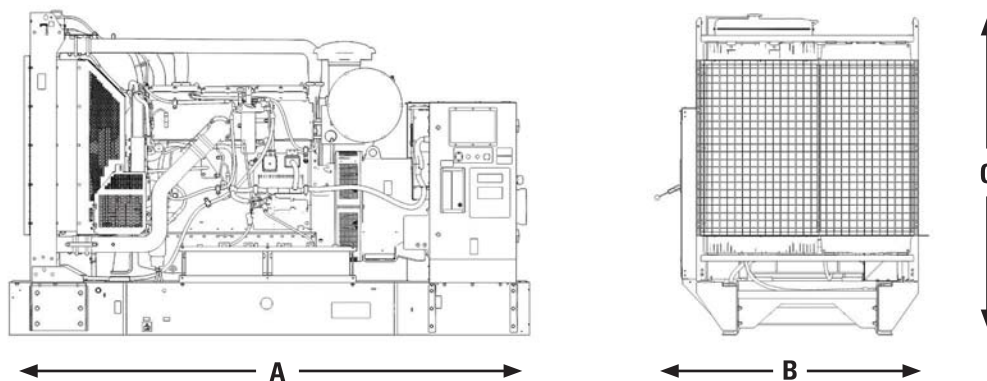
Model	Standby	Prime	Emission Strategy
C18	600 ekW, 750 kVA	545 ekW, 681 kVA	TIER II Non-Road

PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	60 Hz	
Genset Power Rating	750 kVA	681 kVA
Genset power rating with fan @ 0.8 power factor	600 ekW	545 ekW
Emissions	TIER II Non-Road	
Performance Number	DM8518-04	DM8522-05
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	161.6 (42.7)	151.1 (39.9)
75% load with fan, L/hr (gal/hr)	129.6 (34.2)	123.6 (32.6)
50% load with fan, L/hr (gal/hr)	91.7 (24.2)	89.2 (23.6)
25% load with fan, L/hr (gal/hr)	46.8 (12.4)	48.7 (12.9)
Cooling System¹		
Radiator air flow restriction (system), kPa (in. Water)	0.12 (0.48)	0.12 (0.48)
Radiator air flow, m³/min (cfm)	803 (28357)	803 (28357)
Engine coolant capacity, L (gal)	20.8 (5.5)	20.8 (5.5)
Radiator coolant capacity, L (gal)	61 (16)	61 (16)
Total coolant capacity, L (gal)	82 (22)	82 (22)
Inlet Air		
Combustion air inlet flow rate, m³/min (cfm)	47.8 (1687.8)	46.7 (1649.0)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	49 (120)	49 (120)
Exhaust System		
Exhaust stack gas temperature, °C (°F)	534.6 (994.3)	518.2 (964.8)
Exhaust gas flow rate, m³/min (cfm)	135.5 (4784.4)	129.6 (4576.4)
Exhaust system backpressure (maximum allowable) kPa (in. water)	10.0 (40.0)	10.0 (40.0)
Heat Rejection		
Heat rejection to jacket water, kW (Btu/min)	189 (10747)	175 (9953)
Heat rejection to exhaust (total) kW (Btu/min)	634 (36053)	596 (33895)
Heat rejection to aftercooler, kW (Btu/min)	153 (8700)	142 (8076)
Heat rejection to atmosphere from engine, kW (Btu/min)	86 (4902)	83 (4726)

Emissions (Nominal) ²	Standby		Prime	
NOx, mg/Nm ³ (g/hp-hr)	2798.7 (5.8)		2462.2 (5.1)	
CO, mg/Nm ³ (g/hp-hr)	225.2 (0.5)		195.1 (0.4)	
HC, mg/Nm ³ (g/hp-hr)	3.8 (0.01)		5.0 (0.01)	
PM, mg/Nm ³ (g/hp-hr)	13.3 (0.03)		13.1 (0.03)	
Alternator ³				
Voltages	480V	600V	480V	600V
Motor starting capability @ 30% Voltage Dip	1633 skVA	2023 skVA	1633 skVA	2023 skVA
Current	902 amps	722 amps	819 amps	656 amps
Frame Size	LC7024F	LC7024H	LC7024F	LC7024H
Excitation	AR	AR	AR	AR
Temperature Rise	150 ° C	130 ° C	125 ° C	105 ° C

WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
3477 (137)	1628 (64)	2102 (83)	4431 (9769)

APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.

Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer representative for availability.

STANDBY: Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

PRIME: Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year

RATINGS: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

DEFINITIONS AND CONDITIONS

¹ For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

² Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. Data shown is based on steady state operating conditions of 77° F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 BTU/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.

³ UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40° C ambient per NEMA MG1-32.

LET'S DO THE WORK.™



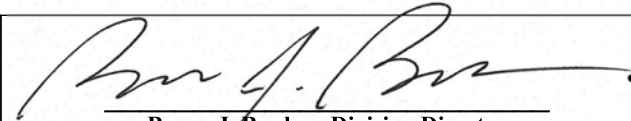
**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2020 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT**

**OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105**

Certificate Issued To: Caterpillar Inc.
(U.S. Manufacturer or Importer)
Certificate Number: LCPXL18.1NYS-019

Effective Date:
07/25/2019

Expiration Date:
12/31/2020


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
07/25/2019

Revision Date:
N/A

Model Year: 2020
Manufacturer Type: Original Engine Manufacturer
Engine Family: LCPXL18.1NYS

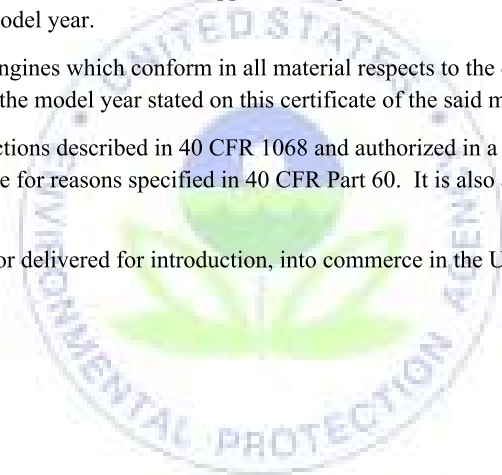
Mobile/Stationary Indicator: Stationary
Emissions Power Category: 560<kW<=2237
Fuel Type: Diesel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: Electronic Control, Engine Design Modification

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

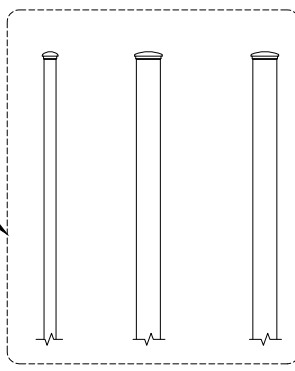
It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

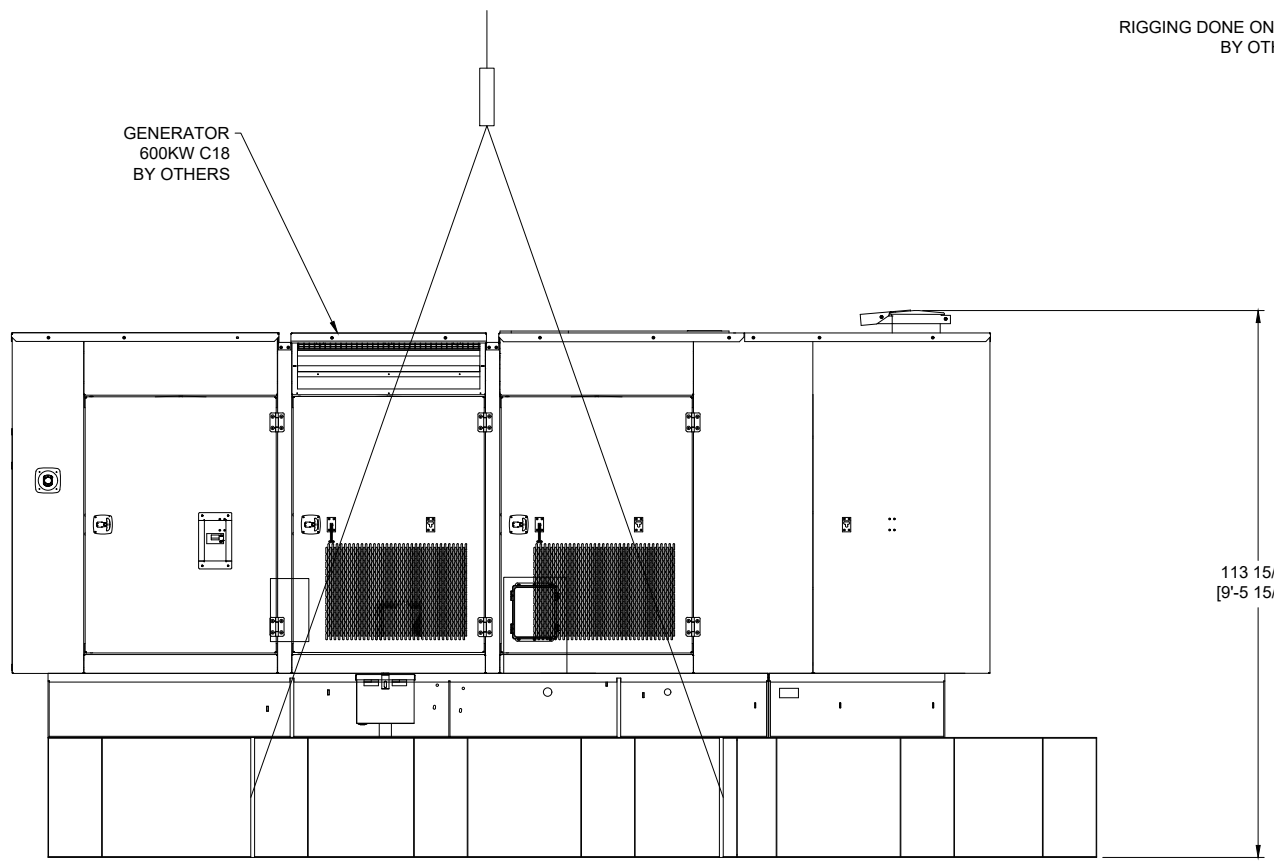


REV:	A	DATE:	05-29-20	BY:	JS	DESCRIPTION:	INITIAL SUBMITTAL
APP BY:	VC	DATE:	05-29-20				

EXTENDED TANK VENTS BY JTS
PRE-FIT AND SHIPPED LOOSE

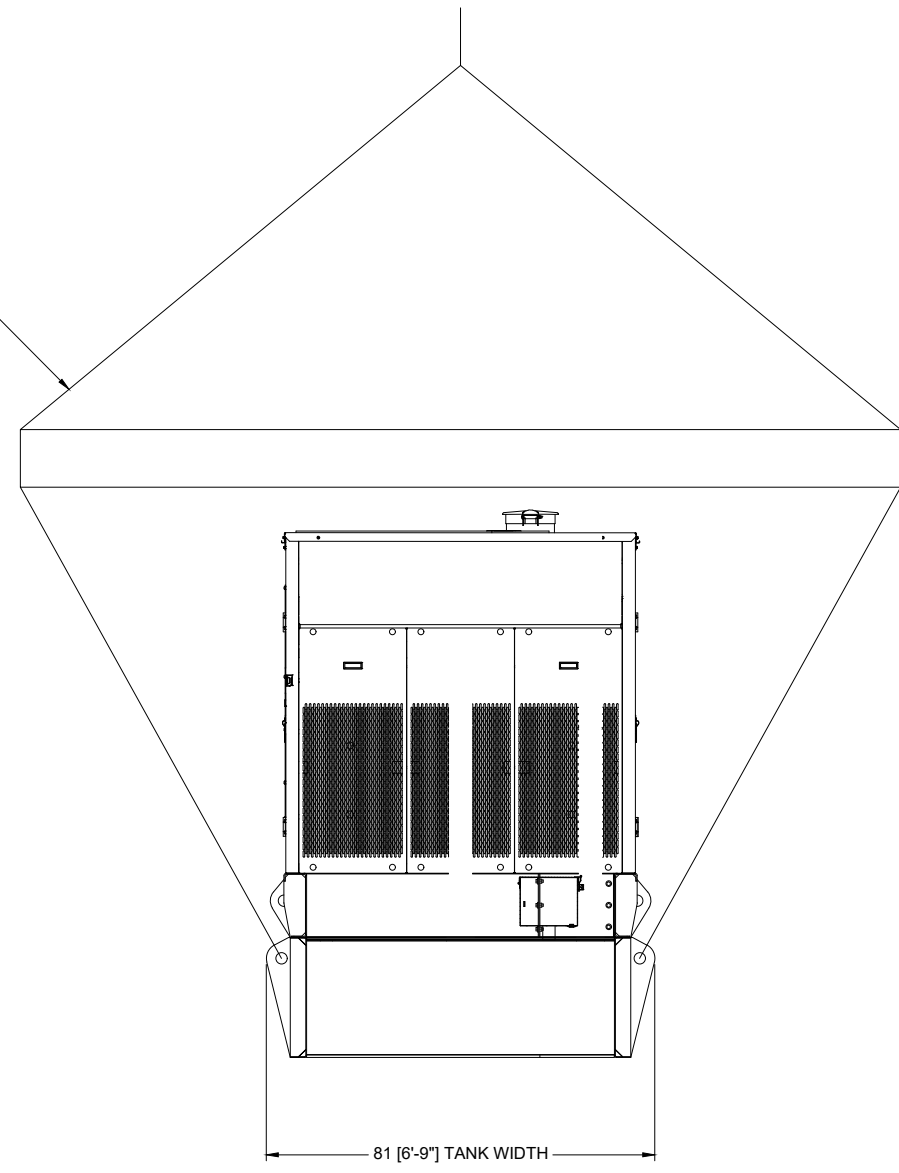


GENERATOR
600KW C18
BY OTHERS



SIDE VIEW

RIGGING DONE ON-SITE
BY OTHERS



DISCHARGE END VIEW

ISSUED FOR APPROVAL

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DO NOT SCALE

DRAWN BY:	JS	DATE:	05-29-20
CHECKED BY:	JO	DATE:	05-29-20
APPROVED BY:	VC	DATE:	05-29-20

PROJECT NAME:
**AMAZON OPTDC C18
HOUSE GEN PACKAGE
MASTER**

PROJECT LOCATION:

CLIENT NAME:
**PETERSON POWER
SYSTEMS**

QUOTE NUMBER:

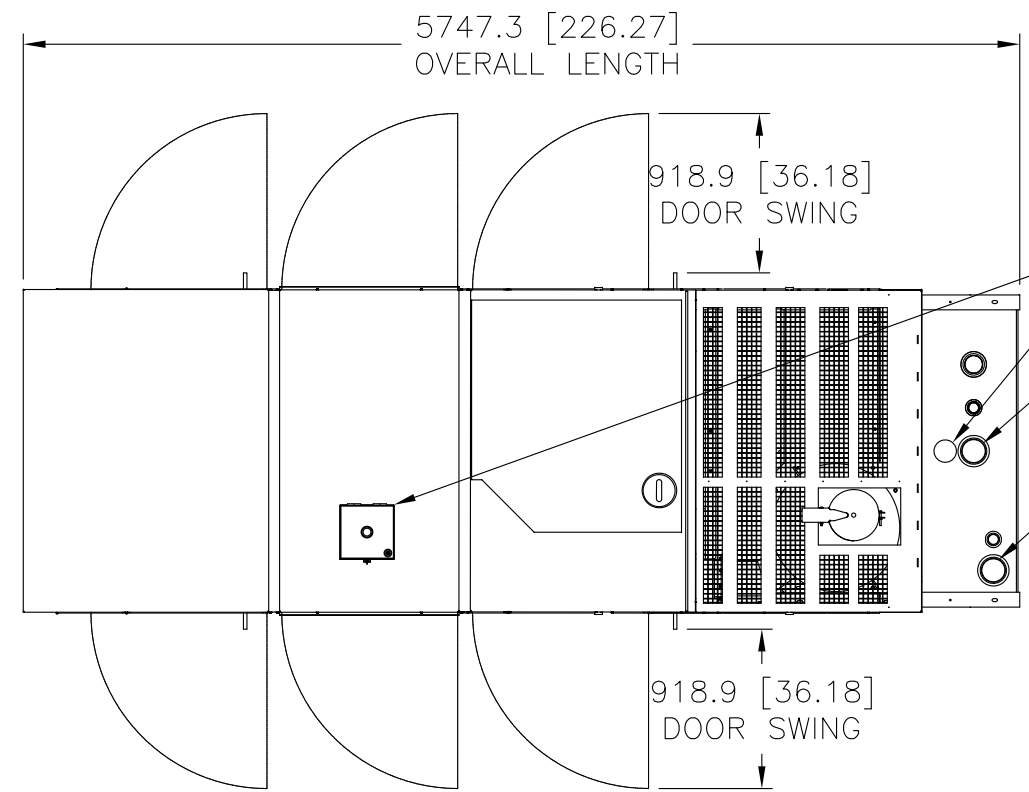
CUSTOMER PO NUMBER:

JOB NUMBER:

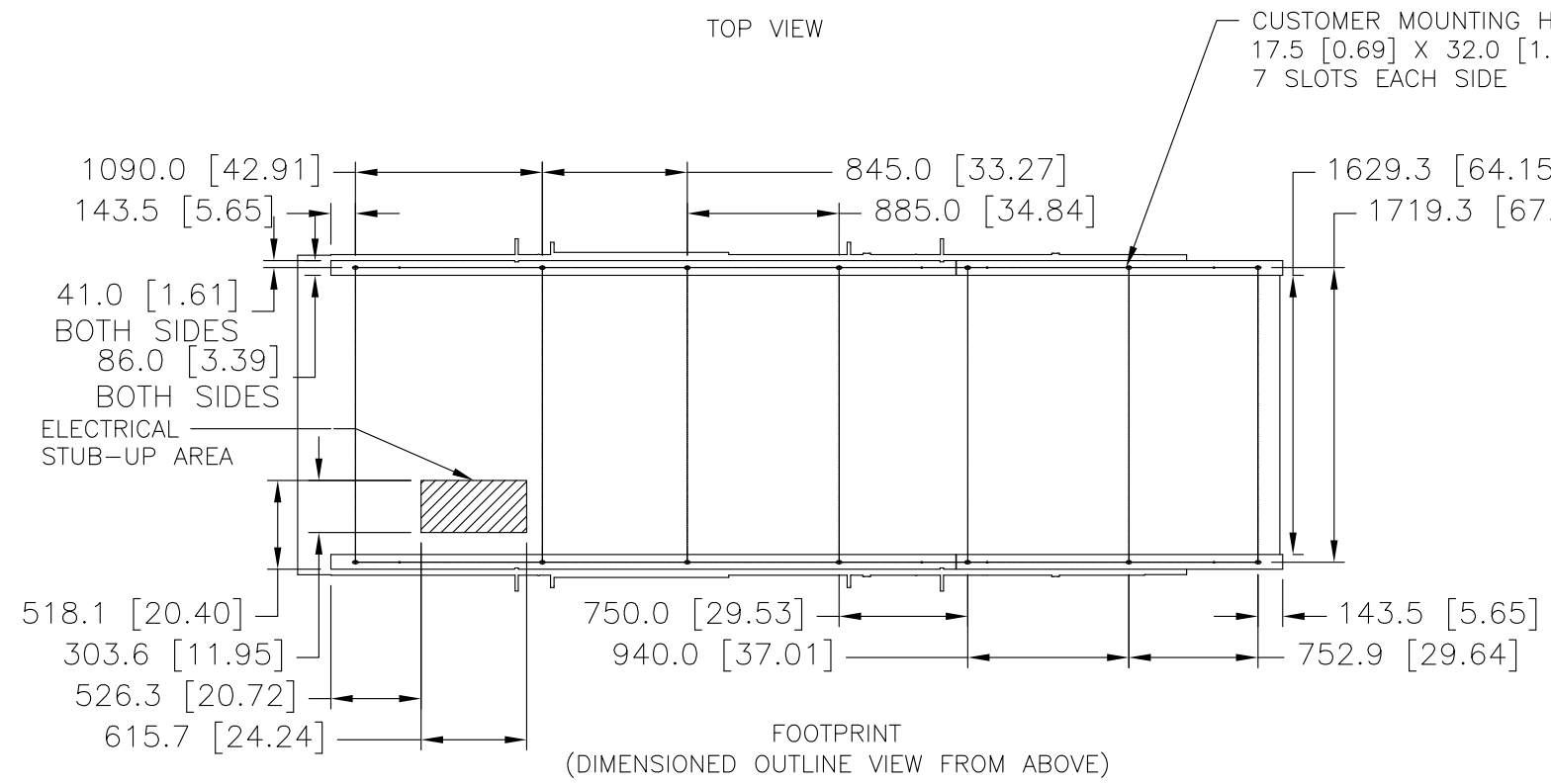
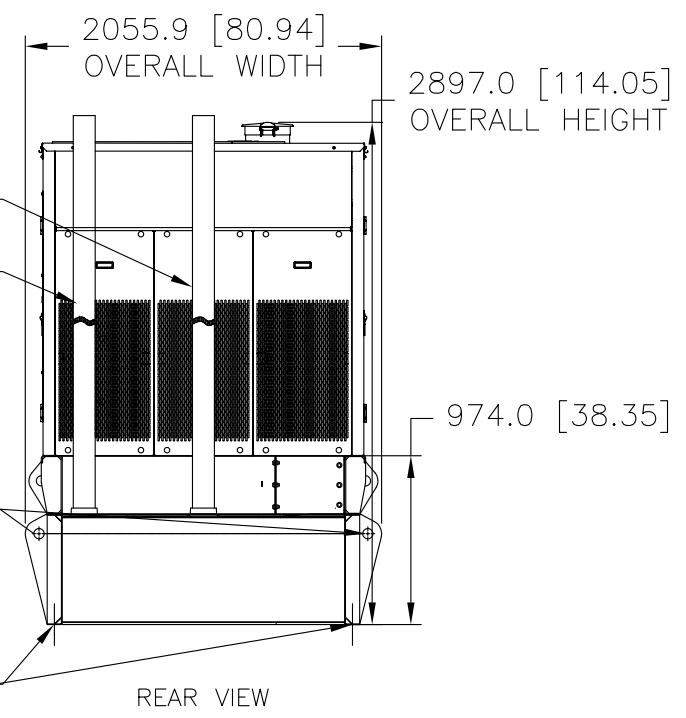
DRAWING DESCRIPTION:
SHIPPING DIAGRAM

DRAWING NO:
G-102

REV:
A



- 5-GALLON SPILL BUCKET W/OPV
- 2.5" NORMAL VENT
NPTF THD EXTENDED 12-FT ABOVE GRADE
- 5" MAIN TANK EMERGENCY VENT
NPTF THD EXTENDED 12-FT ABOVE GRADE
- 5" BASIN TANK EMERGENCY VENT
NPTF THD EXTENDED 12-FT ABOVE GRADE
- 5" MAIN TANK EMERGENCY VENT
NPTF THD EXTENDED 12-FT ABOVE GRADE
- 5" BASIN TANK EMERGENCY VENT
NPTF THD EXTENDED 12-FT ABOVE GRADE



TOP VIEW

REAR VIEW

PROJECT NAME:
PDX OPTDC MASTER HOUSE GEN.

DESCRIPTION:
C18-600KW 480VAC 60HZ
S.A. L1 ENCLOSURE, S.B. FUEL TANK
REFERENCE DRAWINGS:
C18DE6E: C18-600KW 480VAC GENSET
FTDW005: SUB-BASE FUEL TANK (1,041 GAL)
OGNAR66: LC7024J AREP ALT. END
ENCSAH3: S.A. ENCLOSURE L1

DRAWING STATUS:
PRELIMINARY NOT FOR CONSTRUCTION

DRAWN BY: **EJD** PROJECT NUMBER: **N/A**

CHECKED BY: DATE: **06-19-20**

APPROVED BY: REV #: **-**

OVERALL LENGTH: **227"** WET WEIGHT: **26,300 LBS**

OVERALL WIDTH: **81"** DRY WEIGHT: **18,000 LBS**

OVERALL HEIGHT: **115"** SCALE: **NONE**

NOTES:
-ALL OVERALL DIMENSIONS ARE NOMINAL WITH $\pm 1"$
-TOLERANCE SEE DRAWING FOR ALL DETAILED COMPONENT DIMENSIONS CONSULT FACTORY FOR QUESTIONS AND/OR DISCREPANCIES FOUND
-ALL MEASUREMENTS ARE DISPLAYED IN INCHES
-CENTER OF GRAVITY IS FOR WET WEIGHT

DRAWING NUMBER:
C18-0600-S-102CW-01

SHEET NUMBER: **Page 62 of 206**

REV	BY	DESCRIPTION	DATE



125 ekW- 200 ekW

60 Hz

	Standby	Prime
	125 ekW	114 ekW
	150 ekW	135 ekW
	175 ekW	158 ekW
	200 ekW	-

BENEFITS & FEATURES

CAT[®] GENERATOR SET PACKAGE

Cat generator set packages have been fully prototype tested and certified torsional vibration analysis reports are available. The packages are designed to meet the NFPA 110 requirement for loading, conform to the ISO 8528-5 steady state and fill transient response requirements.

CAT DIESEL ENGINES

The four-cycle Cat diesel engine combines consistent performance with excellent fuel economy and transient response that meets or exceeds ISO 8528-5. The engines feature a reliable, rugged, and durable design that has been field proven in thousands of applications worldwide in emergency standby installations.

COOLING SYSTEM

The cooling system has been designed and tested to ensure proper generator set cooling, and includes the radiator, fan, belts, and all guarding installed as standard. Contact your Cat dealer for specific ambient and altitude capabilities.

GENERATORS

The generators used on Cat packages have been designed and tested to work with the Cat engine. The generators are built with robust Class H insulation and provide industry-leading motor starting capability and altitude capabilities.

EMCP CONTROL PANELS

The EMCP controller features the reliability and durability you have to come to expect from your Cat equipment. The EMCP 4 is a scalable control platform designed to ensure reliable generator set operation, providing extensive information about power output and engine operation. EMCP 4 systems can be further customized to meet your needs through programming and expansion modules.

SPECIFICATIONS

ENGINE SPECIFICATIONS

Engine Model	Cat [®] C7.1 ACERT In-line 6, 4-cycle diesel
Bore x Stroke	105mm x 127mm (4.1in x 5.0 in)
Displacement	7.01 L (428 in ³)
Compression Ratio	16.7:1
Aspiration	Turbocharged Air-to-Air-Aftercooled
Fuel Injection System	Electronic, Common Rail
Governor	Electronic ADEM™ A4
Emission Certifications	US EPA TIER III Non-Road

GENERATOR SET SPECIFICATIONS

Alternator Design	Brushless Single Bearing, 4 Pole
Stator	2/3 Pitch
No. of Leads	12
Available Voltage Options	600/480/440/240/220V 208/120vAC
Frequency	60Hz
Alternator Voltage	12V
Alternator Insulation & IP	Class H; IP23
Standard Temperature Rise	125/130 Deg C
Available Excitation Options	Self-Excited, ASEP PMG
Voltage Regulation, Steady State +/-	≤1%

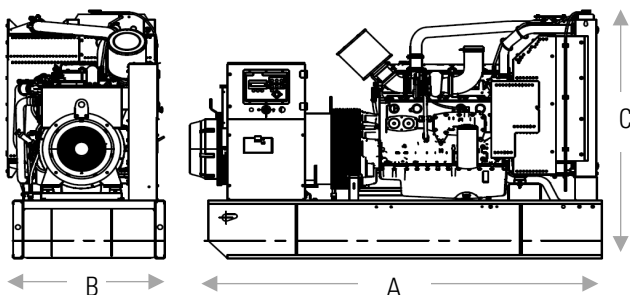
STANDARD EQUIPMENT

Air inlet system	Aftercooler core. Turbocharger
Control panels	EMCP4.2 control panel.
Cooling system	Radiator and cooling fan complete with protective guards. Standard ambient temperatures up to 50degC (122degF). 50% coolant antifreeze/corrosion inhibitor. Coolant Reservoir
Fuel system	Primary & secondary fuel filters. Fuel priming pump. Flexible fuel lines.
Generators and generator attachments	Brushless, self-excited 2/3 pitch, random wound. IP23 Protection. Insulation Class H and temperature rise Integrated Voltage Regulator
Governing system	Cat Electronic Governor (ADEM A4).
Protection System	Safety Shutoff – Low Oil Pressure Safety Shutoff – Overspeed Coolant Level Sensor
Starting/charging system	12-Volt Electric Starting Motor Batteries with rack & cables
General	Paint – Caterpillar Yellow except rails and radiators gloss black

OPTIONAL EQUIPMENT

Air inlet system	Single Element air filter Cartridge type air filter
Exhaust	Industrial, residential, critical mufflers.
Control panels	Remote Annunciators Discrete I/O Module Earth (Ground) Fault Relay
Circuit Breakers	3-Pole 100% Rated – Single & Dual breaker combination. 400a & 250a
Enclosures	Sound Attenuated (SA)- Level 1 & Level 2 Weather Protective Aluminum Enclosure
Cooling system	Radiator Stone guards.
Mufflers	Industrial grade (10 dBA) Residential and Critical grade (25 dBA) & 35 dBA mufflers.
Fuel System	Sub Tank Bases:408 777 Gal
Generators and generator attachments	Excitation – Self Excitation –PMG Oversize
Starting/charging system	Standard Battery Set
Certifications	UL2200 Listed Certification of Compliance – IBC Seismic
General	Docking station for load bank

WEIGHTS & DIMENSIONS




See enclosure spec sheet

Standby Ratings	Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Generator Set Weight kg (lb)
125 ekW	3039 (120)	1110 (44)	1476 (58)	1500 (3307)
150 ekW	3039 (120)	1110 (44)	1476 (58)	1500 (3307)
175 ekW	3039 (120)	1110 (44)	1476 (58)	1500 (3307)
200 ekW	3039 (120)	1110 (44)	1476 (58)	1500 (3307)

RE: Requesting manufacturer specifications for C7.1 Generator Engine



Bob Shepherd <bshepherd@QuinnCompany.com>
To: Emily Wen

 You forwarded this message on 9/22/2020 12:41 PM.

This is the information on this Caterpillar/Perkins C7.1 engine:

Generator kW	HP	Family Name	
175	280	LPKXL07.0PW1	

Fuel rate at 100% load – 13.7 gph

Exhaust flow and temp at 100% load: 1,229 CFM at 948 deg F.

Bob Shepherd
Manager - Sustainability and Compliance
Quinn Group, Inc.
Office - 562-463-6013
cell: - 562-572-0963

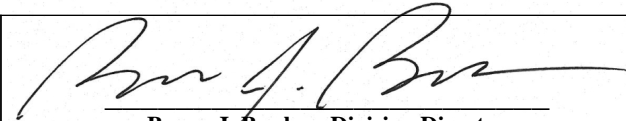


**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2020 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT**

**OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105**

Certificate Issued To: Perkins Engines Co Ltd
(U.S. Manufacturer or Importer)
Certificate Number: LPKXL07.0PW1-013

Effective Date:
09/26/2019
Expiration Date:
12/31/2020


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
09/26/2019
Revision Date:
N/A

Model Year: 2020
Manufacturer Type: Original Engine Manufacturer
Engine Family: LPKXL07.0PW1

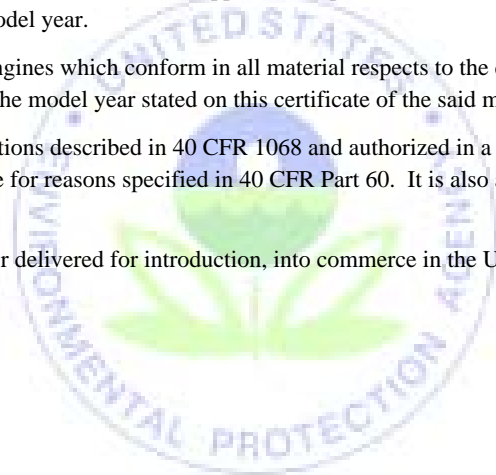
Mobile/Stationary Indicator: Stationary
Emissions Power Category: 225<=kW<450
Fuel Type: Diesel, Non-Standard Fuel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: Electronic Control, Engine Design Modification

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



From: [Lee, John@ARB](mailto:Lee,John@ARB)
To: [McKay Quinn](mailto:McKay.Quinn)
Cc: [Elizabeth Geller](mailto:Elizabeth.Geller); [Emily Wen](mailto:Emily.Wen); [Quiros, David@ARB](mailto:Quiros.David@ARB); [Olson, Thomas@ARB](mailto:Olson.Thomas@ARB); [Wang, Zhenlei@ARB](mailto:Wang.Zhenlei@ARB)
Subject: RE: CARB Verification of 2020 Model Engine Carry-Over for EO DE-07-001-07
Date: Wednesday, September 16, 2020 4:12:54 PM
Attachments: [image001.png](#)

Hello McKay,

It is up to Rypos to submit a request to CARB staff for the new engine families to be included in their verification. Given that these engine models have been already included in previous years, I will give it a high probability that if Rypos includes those specific engine families in their request that these engines would be included in their verification. Please contact Rypos and let them know what you need.

From: McKay Quinn <MQQuinn@trinityconsultants.com>
Sent: Wednesday, September 16, 2020 3:51 PM
To: Lee, John@ARB <John.Lee@arb.ca.gov>
Cc: Elizabeth Geller <EGeller@trinityconsultants.com>; Emily Wen <EWen@trinityconsultants.com>; Quiros, David@ARB <David.Quiros@arb.ca.gov>
Subject: CARB Verification of 2020 Model Engine Carry-Over for EO DE-07-001-07

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

John,

My colleague Emily Wen referred me to you for a question regarding Executive Order DE-07-001-07 for the verification of the Rypos, Inc. Hybrid Diesel Particulate Filter (HDPF/C) for stationary sources. Could you please confirm with CARB leadership that the engines manufactured by **Caterpillar** with a model year of **2020** in the EPA engine families **LCPXL78.1NZS** and **LCPXL18.1NYS** will be included in the next update to the Attachment 1 of the Executive Order DE-07-001-07?

Please let me know if any additional information is required to complete this request. Thank you for your prompt review of this request.

Thank you,
McKay

McKay Quinn
Associate Consultant

P 510.285.6351 x108
1901 Harrison Street Suite 1590 Oakland, CA 94612
Email: mquinn@trinityconsultants.com



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**State of California
AIR RESOURCES BOARD**

EXECUTIVE ORDER DE-07-001-07

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code, Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code sections 39515 and 39616 and Executive Order G-14-012;

Relating to Verification under sections 2700 through 2711 of Title 13 of the California Code of Regulations

Rypos, Inc.
Hybrid Diesel Particulate Filter (HDPF/C)

The California Air Resources Board (CARB) staff has reviewed Rypos' request for verification of their hybrid active diesel particulate filter and diesel oxidation catalyst system (Rypos HDPF/C). Based on an evaluation of the data provided, and pursuant to the terms and conditions specified below, the Executive Officer of CARB hereby finds that the Rypos HDPF/C reduces emissions of diesel particulate matter (PM) consistent with a Level 3 device (greater than or equal to 85 percent reduction) (Title 13 California Code of Regulations [CCR] sections 2702 [f] and [g] and section 2708) and complies with the CARB January 1, 2009, nitrogen dioxide (NO₂) limit (Title 13 California Code of Regulations [CCR] Appendix A section 2702 [f] and section 2706 [a]). Accordingly, the Executive Officer determines that the Rypos HDPF/C merits verification as a Level 3 Plus system for diesel engines on stationary emergency standby generators and emergency standby pumps, subject to the terms and conditions specified below.

This verification is subject to the following terms and conditions:

- The engine must be used in a stationary application associated with emergency standby generators or emergency standby pumps.
- The engine is greater than 50 hp and model year 1996 or newer, certified to nonroad diesel engine emission standards Tier 1, Tier 2, Tier 3, Tier 4i with a rated horse power between 50 and 75 or over 750, or Tier 4 Alt 20% NO_x and PM, and having the engine family names listed in Attachment.
- The engine must be a certified off-road engine with particulate matter (PM) emission levels less than or equal to 0.2 g/bhp-hr (as tested on an appropriate steady-state certification cycle outlined in the CARB off-road regulations – similar to ISO 8178 D2).
- The engine must be in its original certified configuration.
- The engine must not employ exhaust gas recirculation.
- The engine must not have a pre-existing oxidation catalyst.
- The engine must not have a pre-existing diesel particulate filter.
- The engine can be a two or four-stroke.
- The engine can be turbocharged or naturally-aspirated.
- The engine must be certified for use in California.

- Rypos must review actual operating conditions (duty cycle, baseline emissions, exhaust temperature profiles, and engine backpressure) prior to retrofitting an engine with the HDPF/C to ensure compatibility.
- The engine should be well maintained and not consume lubricating oil at a rate greater than that specified by the engine manufacturer.
- The other terms and conditions specified in Table 1 below.

Table 1: Summary of Conditions for the Rypos HDPF/C System	
Parameter	Value
PM Verification Level	Level 3 Plus: <ul style="list-style-type: none"> • PM - at least 85% reduction. • NO₂ - meets January 2009 limit.
Regeneration System	Active
Applications	Stationary Emergency Standby Generators or Pumps.
Engine Type	Diesel-fueled, with or without turbocharger, certified off-road engine with particulate matter (PM) emission levels less than or equal to 0.2 g/bhp-hr.
Engine Models	1996 or newer and listed in Attachment 1 to the Executive Order.
Engine Horsepower	Greater than 50 hp.
Fuel	California diesel fuel with less than or equal to 15 ppm sulfur or a biodiesel blend provided that the biodiesel portion of the blend complies with ASTM D6751, the diesel portion of the blend complies with Title 13 (CCR), sections 2281 and 2282, and the blend contains no more than 20 percent biodiesel by volume.
Minimum Exhaust Temperature for Filter Regeneration	Not Applicable (NA). Active DPF.
Maximum consecutive minutes at idle	NA. Active DPF.
Number of Cold Start and 30 Minute Idle Sessions before Regeneration Required	NA. Active DPF.
Number of Hours of Operation Before Cleaning of Filter Required	Inspect every 1000 hours and clean if needed. Active DPF.

The Rypos HDPF/C consists of a filter housing, electrical control circuit, and filter cartridges made of sintered metal fibers, referred to as an active sintered metal diesel particulate filter, and a downstream diesel oxidation catalyst.

This Executive Order is valid provided that installation instructions for Rypos HDPF/C do not recommend tuning the engine to specifications different from those specified by the engine manufacturer.

No changes are permitted to the device unless approved by CARB. CARB must be notified in writing of any changes to any part of the Rypos HDPF/C and these changes must be evaluated and approved by CARB. Failure to report any changes shall invalidate this Executive Order.

Changes made to the design or operating conditions of Rypos HDPF/C which adversely affect the performance of the engine's pollution control system shall invalidate this Executive Order.

No person shall alter, physically disable, disconnect, bypass, or tamper with an installed CARB verified diesel emission control strategy, as outlined in Title 13 CCR section 2711(e). Should CARB become aware that a design feature of a verified device is altered, physically disabled, disconnected, bypassed, or tampered on multiple units by independent persons, Rypos will be responsible to propose a design modification and recall plan to the Executive Officer to minimize existing and potential for future tampering of the verified device.

Marketing of the Rypos HDPF/C using identification other than that shown in this Executive Order or for an application other than that listed in this Executive Order shall be prohibited unless prior approval is obtained from CARB.

As specified in the Diesel Emission Control Strategy Verification Procedure (Title 13 CCR section 2706 [g]), CARB assigns each Diesel Emission Control Strategy a family name. The designated family name for the verification as outlined above is:

CA/RYP/2007/PM3+/N00/ST/DPF01

Additionally, as stated in the Diesel Emission Control Strategy Verification Procedure, Rypos, Inc., is responsible for honoring their warranty (section 2707) and conducting in-use compliance testing (section 2709).

In addition, Rypos, Inc. must conduct in-use compliance testing (section 2709), which involves the following: in-use compliance field testing after 100 units have been sold or leased in California and in-use compliance emissions testing after 300 units have been sold or leased in California (section 2709 (a)). Both the in-use compliance field and emissions testing proposals have to be submitted within 90 days after selling or leasing in California the 100th unit and 300th unit, respectively (section 2709 (d)). The in-use compliance field and emission testing reports must be submitted no later than 18 months after selling or leasing the 100th and 300th units in the California market, respectively, as outlined in section 2709 (k).

In addition to the foregoing, CARB reserves the right in the future to review this Executive Order and the verification provided herein to assure that the verified system continues to meet the standards and procedures of California Code of Regulations, Title 13, section 2222, et seq and California Code of Regulations, Title 13, sections 2700 through 2711.

Systems verified under this Executive Order shall conform to all applicable California emissions regulations.

Violation of any of the above conditions shall be grounds for revocation of this Executive Order.

Executive Order DE-07-001-06 is hereby superseded and is of no further force and effect.

Executed at Sacramento, California, this 9th day of August 2019.

Richard W. Corey
Executive Officer
by



Cynthia Marvin, Chief
Transportation and Toxics Division

Attachment: CARB Approved Model Year 1996 to 2019 Engine Families for the Rypos HDPF/C.

**Attachment: Rypos HPDF/C
Off-Road Certified Engine Family List (0<=0.2 g/bhp-hr PM)**

Model Year 1996 Engines

Manufacturer	Engine Families
Caterpillar	TCP14.RZDBRK
	TCP10.RZDBRD
Deutz AG	TDZ16.RGDARA
	TDZ16.RGDARB
	TDZ7.1R6DARA
	TDZ7.1R6DARB
Generac	TGN13.R6DARA
Komatsu	TKL11.RZDARB
Navistar	TNV466R6DARA
	TNV466R6DARB
	TNV466R6DASC
	TNV466R6DASD
	TNV530R6DARA
	TNV530R6DARB
	TNV530R6DASD
	TNV530R8DASC

Model Year 1997 Engines

Manufacturer	Engine Families
Caterpillar	VCP10.RZDARD
	VCP14.RZDARK
Deere	VJD10.RJDBRB
	VJD6.8R6DBRA
	VJD8.1R6DBRA
	VJD8.1RBDRB
Deutz AG	VDZ16.RGDARA
	VDZ16.RGDARB
	VDZ7.1R6DARA
	VDZ7.1R6DARB
Generac	VGN13.R6DARA
Navistar	VNV466R6DASC
	VNV466R6DASD
	VNV530R6DARB
	VNV530R6DASD

Model Year 1998 Engines

Manufacturer	Engine Families
AB Volvo Penta	WVPXL09.6ACB
	WVPXL12.0ACB
Case	WX9XL0239ACA
	WX9XL0359ABA
	WX9XL0505ABA
	WX9XL0505ABB
	WX9XL0505ACA
Caterpillar	WCPXL07.0MRB
	WCPXL10.5MRD
	WCPXL10.5MRG
	WCPXL14.6ERK
	WCPXL14.6MRJ
Cummins	WCEXL019.AAA
	WCEXL0359ABA
	WCEXL0359ABB
	WCEXL0505ABA
	WCEXL0505ABB
	WCEXL0505ACA
	WCEXL0661AAA
	WCEXL0855AAA
	WCEXL0855AAB
	WCEXL0855AAB
Daewoo	WDWXL11.1BHT
	WDWXL11.1BIA
Detroit Diesel Corporation	VDDXL08.5TJD
	WDDXL09.0TFE
	WDDXL11.1THD
	WDDXL12.1TFE
	WDDXL12.1TFM
	WDDXL12.7TGD
	WDDXL15.9TRE
	WDDXL23.9TRE
	WDDXL23.9TRE
	WDDXL23.9TRE
Deere	WJDXL06.8012
	WJDXL08.1007
	WJDXL08.1008
	WJDXL08.1009
	WJDXL10.5003

Model Year 1998 Engines Continued

Manufacturer	Engine Families
Deutz AG	WDZXL07.1003
	WDZXL07.1004
	WDZXL15.9001
	WDZXL15.9002
GMC	WGNXL13.3HTA
ISUZU	WSZXL06.4DTA
Komatsu	WKDXL0239AAA
	WKDXL0359ABA
	WKLXL11.0DB1
	WKLXL11.0DC1
	WKLXL15.2EB1
	WKLXL23.2FC1
	WKLXL7.15CB1
	WKLXL7.15CC1
MTU	WMUXL12.0G2V
Navistar	WNVXL0530BNB
	WNVXL0530BND

Model Year 1999 Engines

Manufacturer	Engine Families
AB Volvo Penta	XVPXL07.3ABB
	XVPXL07.3ACB
	XVPXL09.6ACB
	XVPXL12.0ACB
Case	XX9XL0239ACA
	XX9XL0359ABA
	XX9XL0505ABA
	XX9XL0505ABB
	XX9XL0505ACA
Caterpillar	XCPXL07.0MRB
	XCPXL10.5MRD
	XCPXL10.5MRG
	XCPXL14.6ERK
Cummins	XCEXL019.AAA
	XCEXL0359ABA
	XCEXL0505ABA
	XCEXL0505ABB
	XCEXL0505ACA
	XCEXL0661AAA
	XCEXL0855AAA
XCEXL0855AAB	

Model Year 1999 Engines Continued

Manufacturer	Engine Families
Daewoo	XDWXL03.3AMN
	XDWXL03.3BMN
	XDWXL03.3LMN
	XDWXL05.8AOA
	XDWXL05.8ARN
	XDWXL05.8ATT
	XDWXL08.1ACN
	XDWXL08.1ADT
	XDWXL11.1BIA
	XDWXL11.1BHT
	XDWXL11.1DJA
	XDWXL14.6AZA
	XDWXL14.6CVT
XDWXL18.3ASA	
Detroit Diesel Corporation	XDDXL08.5TJD
	XDDXL09.1TFE
	XDDXL11.1THD
	XDDXL12.1TFE
	XDDXL12.1TFM
	XDDXL12.7TGD
	XDDXL14.0TLD
	XDDXL15.9TRE
	XDDXL23.9TRE
	XDDXL23.9TRE
Deere	XJDXL06.8012
	XJDXL08.1007
	XJDXL08.1008
	XJDXL10.5022
Deutz AG	XDZXL02.7014
	XDZXL07.1005
	XDZXL07.1004
	XDZXL15.9002
	XDZXL15.9003
Generac	XGNXL13.3HTA

Model Year 1999 Engines Continued

Manufacturer	Engine Families	
Komatsu	XKLXL03.3JA1	
	XKLXL11.0DB1	
	XKLXL11.0DC1	
	XKLXL15.2EC1	
	XKLXL23.2FC1	
	XKLXL7.15CB1	
	XKLXL7.15CC1	
	XKDXL0239ACA	
	XKDXL0359ABA	
	XKDXL0505ABB	
	XKDXL0505ACA	
	KUBOTA	XKDXL03.3BAC
		XKDXL03.3BCC
Mitsubishi	XMTXL07.5D6C	
	XMTXL11.9D6A	
Navistar	XNVXL0466BNA	
	XNVXL0530ANA	
	XNVXL0530ANB	
	XNVXL0530ANC	
	XNVXL0530AND	
	XNVXL0530BNA	
	XNVXL0530BNB	
	XNVXL0530BNC	
	XNVXL0530BND	
Yanmar	XYDXL2.00D4T	
	XYDXL2.78D4N	
	XYDXL4.41D4N	
	XYDXL4.41D4T	

Model Year 2000 Engines

Manufacturer	Engine Families
AB Volvo Penta	YVPXL07.3ABB
	YVPXL07.3ACB
	YVPXL09.6ACB
	YVPXL12.0ACB
	YVPXL12.0ACB
Case	YX9XL0239ACA
	YX9XL0239ADA
	YX9XL0359ABA
	YX9XL0359ABB
	YX9XL0505ABA
	YX9XL0505ABB
Caterpillar	YX9XL0505ACA
	YCPXL07.0MRB
	YCPXL10.5MRD
	YCPXL10.5MRG
	YCPXL14.6ERK
	YCPXL27.0MRH
	YCPXL27.0MRS
Cummins	YCPXL34.5ERK
	YCPXL69.0ERK
	YCEXL03.3AAA
	YCEXL03.3AAB
	YCEXL015.ABA
	YCEXL019.AAA
	YCEXL019.AAB
	YCEXL030.ABA
	YCEXL050.ABA
	YCEXL0239ACA
	YCEXL0239ADA
	YCEXL0359AAA
	YCEXL0359ABA
	YCEXL0359ABC
	YCEXL050.AAA
	YCEXL0505ABA
	YCEXL0505ABB
YCEXL0505ACA	
YCEXL060.ABA	
YCEXL0661AAA	
YCEXL0855AAA	
YCEXL0855AAB	
Deere	YJDXL06.8012
	YJDXL08.1007
	YJDXL08.1008
	YJDXL10.5022

Model Year 2000 Engines Continued

Manufacturer	Engine Families
Detroit Diesel Corporation	YDDXL08.5TJD
	YDDXL11.1THD
	YDDXL12.1TFE
	YDDXL12.1TFM
	YDDXL12.7TGD
	YDDXL14.0TLD
	YDDXL15.9TRE
	YDDXL23.9TRE
	YDDXL31.8VRE
	YDDXL65.0VTE
Deutz AG	YDZXL02.7014
	YDZXL07.1004
	YDZXL07.1005
	YDZXL15.9002
	YDZXL15.9003
	YDZXL17.5001
Genrac	YGNXL13.3HAA
	YGNXL13.3HTA
	YGNXL16.0MAA
Komatsu	YKLXL0505ACA
	YKLXL11.0DB1
	YKLXL11.0DC1
	YKLXL15.2EC1
	YKLXL23.2FC1
	YKLXL23.2FC2
	YKLXL30.5GC1
	YKLXL7.15CB1
	YKLXL7.15CC1
	Navistar
YNVXL0530ANA	
YNVXL0530ANB	
YNVXL0530ANC	
YNVXL0530AND	
VM Motori	YV5XI02.1R3V
	YV5XL02.8R2T

Model Year 2001 Engines

Manufacturer	Engine Families	
AB Volvo Penta	1VPXL07.3ABB	
	1VPXL07.3ACB	
	1VPXL09.6ACB	
	1VPXL12.1ACB	
Case	1X9XL0239ACA	
	1X9XL0239ADA	
	1X9XL0359ABA	
	1X9XL0359ABB	
	1X9XL0505ABA	
	1X9XL0505ABB	
Caterpillar	1X9XL0505ACA	
	1CPXL07.0MRB	
	1CPXL10.5MRD	
	1CPXL10.5MRG	
	1CPXL12.0ESK	
	1CPXL14.6ESK	
	1CPXL15.8ESK	
	1CPXL18.0HRN	
	1CPXL27.0HRK	
	1CPXL27.0MRS	
	1CPXL27.0MRT	
	1CPXL34.5ERK	
	1CPXL78.1ERK	
	Cummins	1CEXL03.3AAA
		1CEXL03.3AAB
		1CEXL015.AAA
1CEXL015.ABA		
1CEXL019.AAB		
1CEXL0239ACA		
1CEXL0239ADA		
1CEXL030.ABA		
1CEXL0359ABA		
1CEXL0359ABB		
1CEXL0359ABC		
1CEXL0359ABD		
1CEXL050.AAA		
1CEXL050.ABA		
1CEXL0505ABA		
1CEXL0505ABB		
1CEXL0505ACA		
1CEXL0505ACE		
1CEXL0661AAA		
1CEXL0661AAD		

Model Year 2001 Engines Continued

Manufacturer	Engine Families
Cummins continued	1CEXL060.ABA
Daewoo	1DWXL2.37ANT
	1DWXL03.3AMN
	1DWXL03.3BMA
	1DWXL03.3LMN
	1DWXL05.8AOA
	1DWXL05.8ARN
	1DWXL08.1ACN
	1DWXL11.1BIA
	1DWXL14.6AZA
	1DWXL14.6CVT
	1DWXL18.3ASA
	1DWXL21.9AYA
Detroit Diesel Corporation	1DDXL08.5TJD
	1DDXL08.5YJD
	1DDXL12.7VGD
	1DDXL14.0VLD
	1DDXL14.0WLD
	1DDXL15.9WRE
	1DDXL23.9WRE
	1DDXL31.8XRE
	1DDXL65.0XTE
Deere	1JDXL06.8012
	1JDXL06.8038
	1JDXL06.8039
	1JDXL08.1007
	1JDXL08.1008
	1JDXL08.1036
	1JDXL08.1037
Deutz	1DZXL02.7014
	1DZXL02.7015
	1DDXL08.5TJD
	1DDXL08.5YJD
	1DZXL07.1005
	1DZXL15.9002
	1DZXL15.9003
Generac	1GNXL04.0HAA
	1GNXL04.0HNA
	1GNXL05.0FAA
Isuzu	1SZXL06.5BTA
	1SZXL09.8EXA
	1SZXL15.7ETA
	1SZXL15.7EXA

Model Year 2001 Engines Continued

Manufacturer	Engine Families
International	1NVXL0530ANC
	1NVXL0530AND
	1NVXL0530ANF
Komatsu	1KLXL0239ACA
	1KLXL0239ADA
	1KLXL0359ABA
	1KLXL0359ABC
	1KLXL0505ABB
	1KLXL0505ACA
	1KLXL03.3JA1
	1KLXL03.3JB1
	1KLXL7.15CB1
	1KLXL7.15CC1
	1KLXL11.0DD3
	1KLXL15.2EC3
	1KLXL30.5GC1
	1KLXL30.5GD1
Mitsubishi	1MTXL07.5D6A
	1MTXL07.5D6C
	1MTXL11.9D6A

Model Year 2002 Engines

Manufacturer	Engine Families
Case	2X9XL0239ACA
	2X9XL0239ADA
	2X9XL0359ABA
	2X9XL0359ABB
	2X9XL0359ABE
	2X9XL0505ABA
	2X9XL0505ABB
	2X9XL0505ABD
	2X9XL0505ACA
	2X9XL0505ACB
Caterpillar	2CPXL07.0MRB
	2CPXL10.5MRD
	2CPXL10.5MRG
	2CPXL27.0MRS
	2CPXL27.0MRT
	2CPXL34.5ERK
	2CPXL78.1ERK
Cummins	2CEXL03.3AAA
	2CEXL03.3AAB
	2CEXL015.AAA
	2CEXL015.AAB
	2CEXL015.ABA
	2CEXL019.AAB
	2CEXL0239ACA
	2CEXL0239ADA
	2CEXL0359ABA
	2CEXL0359ABB
	2CEXL0359ABC
	2CEXL0359ABE
	2CEXL0505ABA
	2CEXL0505ABB
	2CEXL0505ABD
	2CEXL0505ACA
	2CEXL0505ACB
	2CEXL0505ACE
	2CEXL060.ABA
	2CEXL0661AAA
2CEXL0661AAD	

Model Year 2002 Engines Continued

Manufacturer	Engine Families	
Detroit Diesel	2DDXL08.5TJD	
	2DDXL08.5YJD	
	2DDXL12.7VGD	
	2DDXL14.0VLD	
	2DDXL31.8XRE	
	2DDXL65.0XTE	
	Deere	2JDXL06.8012
		2JDXL06.8038
		2JDXL06.8039
		2JDXL06.8041
2JDXL06.8044		
2JDXL06.8049		
2JDXL08.1007		
2JDXL08.1008		
2JDXL08.1036		
2JDXL08.1037		
Deutz AG	2DZXL02.7014	
	2DZXL02.7015	
	2DZXL05.7033	
	2DZXL07.1004	
	2DZXL07.1005	
	2DZXL07.1032	
	2DZXL15.9002	
	2DZXL15.9003	
	Daewoo	2DWXL2.37ANT
		2DWXL03.3AMN
2DWXL03.3BMA		
2DWXL03.3LMN		
2DWXL05.8AOA		
2DWXL05.8ARN		
2DWXL08.1ACN		
2DWXL11.1BIA		
2DWXL14.6CVT		
2DWXL21.9AYA		
Generac	2GNXL04.0HAA	
	2GNXL04.0HNA	
	2GNXL05.0FAA	
Isuzu	2SZXL06.5BTA	
	2SZXL09.8EXA	
	2SZXL15.7ETA	
	2SZXL15.7EXA	

Model Year 2002 Engines Continued

Manufacturer	Engine Families
International Truck	2NVXL0444ANA
	2NVXL0530ANC
	2NVXL0530AND
	2NVXL0530ANF
Komatsu	2KLXL0239ACA
	2KLXL0239ADA
	2KLXL0359ABA
	2KLXL0359ABC
	2KLXL0505ABB
	2KLXL0505ABD
	2KLXL0505ACA
	2KLXL03.3JA1
	2KLXL03.3JB1
	2KLXL11.0DB1
	2KLXL11.0DD3
	2KLXL15.2EC3
	2KLXL30.5GC1
	2KLXL30.5GD1
	2KLXL46.3HC1
2KLXL7.15CB1	
2KLXL7.15CC1	
Mitsubishi	2MTXL07.5D6A
	2MTXL07.5D6C
	2MTXL11.9D6A
	2MVXL24.5AAB
	2MVXL65.4ABA
	2MVXL65.4ABB
	2MVXL65.4ABC
AB Volvo Penta	2VPXL07.3ABB
	2VPXL07.3ACB
	2VPXL09.6ACB
	2VPXL12.1ABA
	2VPXL12.1ACA
	2VPXL12.1ACB
VM Motori	2V5XL02.8R2T

Model Year 2003 Engines

Manufacturer	Engine Families
Caterpillar	3CPXL18.0HRX
	3CPXL27.0MRS
	3CPXL27.0MRT
	3CPXL34.5ERK
	3CPXL58.6ERK
	3CPXL78.1ERK
CNH Engine Corp	3X9XL0239AAA
	3X9XL0239ABA
	3X9XL0359AAC
	3X9XL0359ABE
	3X9XL0505AAB
	3X9XL0505ABD
Cummins	3CEXL015.AAB
	3CEXL015.ABA
	3CEXL023.AAA
	3CEXL0239AAD
	3CEXL0239AAF
	3CEXL0275AAA
	3CEXL0275AAB
	3CEXL030.ABA
	3CEXL0359AAB
	3CEXL0359AAC
	3CEXL0359ABC
	3CEXL0359ABE
	3CEXL050.ABA
3CEXL0505ABD	
3CEXL0505ACB	
3CEXL060.ABA	
3CEXL0661AAD	
	3CEXL078.AAB
Daewoo Motors	3DWXL05.8COA
	3DWXL11.1DJA
	3DWXL21.9AYA

Model Year 2003 Engines Continued

Manufacturer	Engine Families	
Detroit Diesel	3DDXL08.5YJD	
	3DDXL12.7VGD	
	3DDXL14.0VLD	
	3DDXL15.9WRE	
	3DDXL31.8XRE	
	3DDXL35.8GRP	
	3DDXL65.0GTP	
	3DDXL65.0XTE	
	Deere	3JDXL06.8038
		3JDXL06.8039
3JDXL06.8041		
3JDXL06.8044		
3JDXL06.8048		
3JDXL06.8049		
3JDXL08.1037		
Deutz AG		3DZXL05.7033
	3DZXL06.1028	
	3DZXL07.1032	
	3DZXL15.9002	
Daewoo Heavy Ind.	3DWXL08.1CPA	
	3DWXL18.3ASC	
	3DWXL2.37ANT	
Isuzu	3SZXL09.8EXA	
	3SZXL15.7ETA	
	3SZXL15.7EXA	
International Truck	3NVXL0530ANF	
Komatsu	3KLXL0239AAD	
	3KLXL0239AAF	
	3KLXL0359AAB	
	3KLXL0359ABC	
	3KLXL0505ABD	
	3KLXL11.0DD3	
	3KLXL15.2EC3	
	3KLXL23.2FD4	
	3KLXL30.5GC1	
	3KLXL30.5GD1	

Model Year 2003 Engines Continued

Manufacturer	Engine Families
Lombardini Motori	3LBDL2.07CHT
Mack Trucks	3MKXL11.9P69
Mitsubishi Heavy Ind	3MVXL24.5AAB
	3MVXL24.5ABA
	3MVXL24.5ABB
	3MVXL24.5ABD
	3MVXL24.5ABE
	3MVXL33.9ABA
	3MVXL33.9ABB
	3MVXL33.9ABD
	3MVXL33.9ABE
	3MVXL37.1ABA
	3MVXL37.1ABB
	3MVXL37.1ABC
	3MVXL37.1ABD
	3MVXL49.0ABA
	3MVXL49.0ABB
	3MVXL49.0ABC
	3MVXL65.4ABA
3MVXL65.4ABB	
3MVXL65.4ABC	
3MVXL65.4ABD	
3MVXL65.4ABE	
3MVXL65.4ABF	
3MVXL65.4ABG	
AB Volvo Penta	3VPXL07.3ACB
	3VPXL09.6ACB
	3VPXL12.1ABA
	3VPXL12.1ACA
	3VPXL12.1ACB
	3VPXL16.0ACB

Model Year 2004 Engines

Manufacturer	Engine Families
Caterpillar	4CPXL15.8ERK
	4CPXL18.0ESK
	4CPXL18.0HRX
	4CPXL27.0MRS
	4CPXL27.0MRT
	4CPXL34.5ERK
	4CPXL58.6ERK
	4CPXL78.1ERK
CNH Engine Corp.	4X9XL0239AAC
	4X9XL0359AAK
	4X9XL0359ABE
	4X9XL0505AAB
	4X9XL0505ABD
Cummins	4CEXL015.AAB
	4CEXL015.ABA
	4CEXL023.AAA
	4CEXL0239AAD
	4CEXL0239AAF
	4CEXL0239AAG
	4CEXL0275AAB
	4CEXL0275AAC
	4CEXL0275AAF
	4CEXL03.3ABA
	4CEXL03.3ABB
	4CEXL030.ABA
	4CEXL0359AAB
	4CEXL0359AAC
	4CEXL0359AAD
	4CEXL0359AAE
	4CEXL0359AAF
	4CEXL0359AAH
	4CEXL0359ABC
	4CEXL0359ABE
	4CEXL050.ABA
	4CEXL0505ABD
	4CEXL0505ACB
	4CEXL060.ABA
	4CEXL0661AAD
	4CEXL078.AAB
	4CEXL2.28A41
	4CEXL2.28A42

Model Year 2004 Engines Continued

Manufacturer	Engine Families
Detroit Diesel	4DDXL08.5YJD
	4DDXL12.7VGD
	4DDXL14.0VLD
	4DDXL23.9WRE
	4DDXL31.8XRE
	4DDXL35.8GRP
	4DDXL65.0GTP
	4DDXL65.0XTE
	4DDXL90.0XTP
Deere	4JDXL03.0064
	4JDXL06.8038
	4JDXL06.8041
	4JDXL06.8048
	4JDXL06.8049
	4JDXL08.1037
Deutz AG	4DZXL03.1039
	4DZXL03.1040
	4DZXL03.1041
	4DZXL05.7033
	4DZXL06.1038
	4DZXL06.5036
	4DZXL06.5037
	4DZXL06.5042
	4DZXL06.5043
	4DZXL07.1032
	4DZXL15.9002
	4DZXL71.0021
Daewoo	4DWXL05.8COA
	4DWXL05.8CRN
	4DWXL08.1CPA
	4DWXL11.1BIA
	4DWXL11.1DJA
	4DWXL18.3ASC
	4DWXL2.37ANT
	4DWXL21.9AYA
Isuzu	4SZXL03.1GTB
	4SZXL06.5FXG
	4SZXL15.7ETA
	4SZXL15.7EXA

Model Year 2004 Engines Continued

Manufacturer	Engine Families
International Truck	4NVXL0530ANF
Iveco	4VEXL05.9DGS
	4VEXL12.9GEN
Kubota	4KBXL03.3ACD
	4KBXL03.3BAC
	4KBXL03.3BCC
	4KBXL03.8ACD
Komatsu	4KLXL0239AAD
	4KLXL0239AAF
	4KLXL0239ADA
	4KLXL0275AAC
	4KLXL03.3JA3
	4KLXL03.3JB3
	4KLXL03.3JD3
	4KLXL0359AAB
	4KLXL0359AAE
	4KLXL0359ABC
	4KLXL0505ABD
	4KLXL11.0DD3
	4KLXL15.2EC3
	4KLXL23.2FD4
	4KLXL30.5GC1
	4KLXL30.5GD1
MACK Trucks	4MKXL11.9P69
	4MKXL11.9P72
MOTORENFABRIK HATZ	4HZXL3.43C42
	4HZXL3.43V42
Mitsubishi Heavy Ind.	4MVXL05.0AAA
	4MVXL05.0AAD
	4MVXL24.5AAB
	4MVXL24.5ABA
	4MVXL24.5ABB
	4MVXL24.5ABD
	4MVXL24.5ABE
	4MVXL33.9ABB
	4MVXL33.9ABE
	4MVXL37.1ABB
	4MVXL37.1ABC
	4MVXL37.1ABD
	4MVXL49.0ABA
	4MVXL49.0ABB

Model Year 2004 Engines Continued

Manufacturer	Engine Families
Mitsubishi Heavy Ind (continued)	4MVXL49.0ABC
	4MVXL49.0ABD
	4MVXL49.0ABE
	4MVXL65.4ABA
	4MVXL65.4ABB
	4MVXL65.4ABC
	4MVXL65.4ABD
	4MVXL65.4ABE
	4MVXL65.4ABF
	4MVXL65.4ABG
	4MVXL65.4ABH
MTU	4MTUL21.9R2A
Nissan Diesel	4NDXL03.0FTA
AB Volvo Penta	4VPXL07.3ACB
	4VPXL09.4ACA
	4VPXL09.4ACB
	4VPXL09.4ACC
	4VPXL09.6ACB
	4VPXL09.6ACC
	4VPXL12.1ABA
	4VPXL12.1ACA
	4VPXL12.1ACB
Yanmar	4YDXL3.05M4N
	4YDXL3.32J4N
	4YDXL3.32J4T
	4YDXL3.32K4N
	4YDXL3.32K4T
	4YDXL4.41K4T
Perkins	4PKXL15.8H16
Scania AB	4Y9XL11.7BBG
	4Y9XL15.6BDA

Model Year 2005 Engines

Manufacturer	Engine Families
Caterpillar	5CPXL15.2ESK
	5CPXL15.8ERK
	5CPXL18.0ESK
	5CPXL27.0MRS
	5CPXL27.0MRT
	5CPXL34.5ERK
	5CPXL58.6ERK
	5CPXL78.1ERK
CNH Engine Corp.	5X9XL0239AAC
	5X9XL0359AAK
	5X9XL0359ABE
	5X9XL0505AAB
	5X9XL0505ABD
	5X9XL0540AAB
Cummins	5CEXL015.AAB
	5CEXL015.ABA
	5CEXL019.AAB
	5CEXL023.AAA
	5CEXL0239AAD
	5CEXL0239AAF
	5CEXL0239AAG
	5CEXL0275AAB
	5CEXL0275AAC
	5CEXL0275AAF
	5CEXL03.3ABA
	5CEXL03.3ABB
	5CEXL030.ABA
	5CEXL0359AAB
	5CEXL0359AAC
	5CEXL0359AAD
	5CEXL0359AAE
	5CEXL0359AAF
	5CEXL0359AAH
	5CEXL0359ABC
	5CEXL0359ABE
	5CEXL0409AAB
	5CEXL0409AAC
	5CEXL050.ABA
	5CEXL0505AAE
	5CEXL0505ABD
	5CEXL0505ACB

Model Year 2005 Engines (Continued)

Manufacturer	Engine Families
Cummins	5CEXL0540AAB
	5CEXL060.ABA
	5CEXL078.AAB
	5CEXL2.28A41
	5CEXL2.28A42
Detroit Diesel Corporation	5DDXL08.5YJD
	5DDXL15.9WRE
	5DDXL31.8XRR
	5DDXL35.8GRP
	5DDXL65.0GTE
	5DDXL65.0GTP
	5DDXL65.0XTE
	5DDXL90.0XTP
Deere	5JDXL04.5083
	5JDXL06.8038
	5JDXL06.8041
	5JDXL06.8048
	5JDXL06.8049
	5JDXL06.8078
	5JDXL06.8101
	5JDXL08.1037
	5JDXL08.1059
	5JDXL09.0102
Deutz	5DZXL03.1039
	5DZXL03.1040
	5DZXL05.7033
	5DZXL06.1038
	5DZXL06.5036
	5DZXL06.5037
	5DZXL06.5042
	5DZXL06.5043
	5DZXL07.1032
	5DZXL15.9002
	5DZXL71.0021
Daewoo Heavy Ind.	5DWXL08.1CPA
	5DWXL18.3ASC
	5DWXL21.9AYA
MotorenFabrik HATZ GMBH	5HZXL3.43C42

Model Year 2005 Engines (Continued)

Manufacturer	Engine Families	
Isuzu	5SZXL03.1GTB	
	5SZXL04.3GTG	
	5SZXL06.5FXG	
	5SZXL09.8EXA	
	5SZXL15.7ETA	
	5SZXL15.7EXA	
Iveco	5VEXL05.9DGS	
	5VEXL06.7DGA	
	5VEXL12.9GEN	
Komatsu	5KLXL0239AAD	
	5KLXL0239AAF	
	5KLXL0239ADA	
	5KLXL0275AAC	
	5KLXL03.3JA3	
	5KLXL03.3JB3	
	5KLXL03.3JD3	
	5KLXL0359AAB	
	5KLXL0359AAE	
	5KLXL0359AAL	
	5KLXL0359ABC	
	5KLXL0409AAB	
	5KLXL0409AAC	
	5KLXL0505ABD	
	Komatsu	5KLXL23.2FD4
		5KLXL30.5GC1
5KLXL30.5GD1		
Kubota	5KBXL03.3BAC	
	5KBXL03.3BCC	
KUKJ	5KMCL2.28A41	
	5KMCL2.28A42	
Lombardini Motori	5LBDL2.19CHT	
Mitsubishi Heavy Industries	5MVXL05.0AAA	
	5MVXL05.0AAC	
	5MVXL05.0AAD	
	5MVXL24.5ABB	
	5MVXL33.9ABB	
	5MVXL37.1ABC	
	5MVXL49.0ABD	
	5MVXL65.4ABB	
5MVXL65.4ABH		

Model Year 2005 Engines (Continued)

Manufacturer	Engine Families
MITF	5MFTL07.5D6A
MTU-Friedrichshafen	5MTUL21.9R2A
Nissan Diesel	5NDXL02.7TNA
	5NDXL03.0FTA
AB Volvo Penta	5VPXL07.3ACB
	5VPXL09.4ACA
	5VPXL09.4ACB
	5VPXL09.4ACC
	5VPXL09.6ACB
	5VPXL12.1ABA
	5VPXL12.1ACA
	5VPXL12.1ACB
	5VPXL16.1ACB
	5VPXL16.1ACC
	5VPXL16.1ACD
	5VPXL16.1ACE
	5VPXL16.1ACF
Yanmar	5YDXL3.05M4N
	5YDXL3.32J4N
	5YDXL3.32J4T
	5YDXL3.32K4N
	5YDXL3.32K4T
	5YDXL4.41K4T

Model Year 2006 Engines

Manufacturer	Engine Families
AB Volvo Penta	6VPXL12.1BAA
	6VPXL16.1ACB
	6VPXL9.4BAA
Caterpillar	6CPXL15.2ESK
	6CPXL18.0ESK
	6CPXL18.1ESK
	6CPXL18.1ESL
	6CPXL32.0ESK
	6CPXL34.5E2T
	6CPXL34.5T2E
	6CPXL58.6E2T
	6CPXL58.6T2E
	6CPXL78.1E2T
6CPXL78.1T2E	
CNH Engine Corp.	6X9XL0239AAC
	6X9XL0359AAM
	6X9XL0359ABE
	6X9XL0505ABD
	6X9XL0540AAB
Cummins	6CEXK0505AAE
	6CEXL015.AAB
	6CEXL019.AAB
	6CEXL019.AAC
	6CEXL023.AAA
	6CEXL0239AAD
	6CEXL0239AAF
	6CEXL0239AAG
	6CEXL0275AAB
	6CEXL0275AAC
	6CEXL0275AAG
	6CEXL0275AAH
	6CEXL030.AAB
	6CEXL030.AAD
	6CEXL030.ABA
	6CEXL03.3ABC
	6CEXL0359AAB
	6CEXL0359AAC
	6CEXL0359AAD
	6CEXL0359AAF
6KLXL0359AAL	
6CEXL0359AAN	
6CEXL0359ABC	
6CEXL0359ABE	

Model Year 2006 Engines (Continued)

Manufacturer	Engine Families	
Cummins (cont.)	6CEXL0409AAB	
	6CEXL0409AAC	
	6CEXL050.AAD	
	6CEXL050.ABA	
	6CEXL0505ABD	
	6CEXL0540AAB	
	6CEXL060.AAD	
	6CEXL078.AAB	
	DAIMLERCHRYSLER	6MBXL7.20RJA
		6MBXL12.8RJB
Deere	6JDXL03.0064	
	6JDXL04.5057	
	6JDXL04.5083	
	6JDXL06.8001	
	6JDXL06.8004	
	6JDXL06.8006	
	6JDXL06.8038	
	6JDXL06.8041	
	6JDXL06.8048	
	6JDXL06.8049	
	6JDXL06.8078	
	6JDXL08.1037	
	6JDXL09.0102	
6JDXL12.5035		
6JDXL12.5073		
6JDXL13.5103		
Detroit Diesel Corporation	6DDXL14.0VLD	
	6DDXL31.8XRR	
Deutz	6DZXL06.1038	
	6DZXL06.1028	
	6DZXL05.7033	
	6DZXL06.5036	
	6DZXL06.5037	
	6DZXL06.5042	
	6DZXL03.1066	
	6DZXL03.1039	
	6DZXL03.1040	
	Isuzu	6SZXL04.3GTG
6SZXL06.5FXG		
6SZXL05.2HXA		
6SZXL05.2IXA		
6SZXL07.8HXA		
6SZXL15.7HXA		

Model Year 2006 Engines (Continued)

Manufacturer	Engine Families
IVECO	6VEXL04.5DGT
	6VEXL04.5DGN
	6VEXL06.7DGA
	6VEXL06.7DGB
	6VEXL06.7DGS
Komatsu	6KLXL0239AAD
	6KLXL0239AAF
	6KLXL0239ADA
	6KLXL0275AAC
	6KLXL0275AAG
	6KLXL0275AAH
	6KLXL03.3JD3
	6KLXL0359AAB
	6KLXL0359AAE
	6KLXL0359AAL
	6KLXL0359ABC
	6KLXL0409AAB
	6KLXL0409AAC
	6KLXL0505ABD
	Kubota
Mitsubishi Fuso Truck & Bus Corp	6MFTL05.8D3A
Mitsubishi Heavy Industries	6MVXL05.0AAA
	6MVXL05.0AAD
	6MVXL05.0DDD
	6MVXL06.4DDD
	6MVXL06.4EEE
MotorenFabrik HATZ GMBH	6HZXL3.43C42
	6HZXL3.43V42
Nissan	6NDXL03.0FTA
VMMI	6V5XL04.2G5V
Yanmar	6YDXL3.32J4T
	6YDXL3.32K4T
	6YDXL4.41K4T

Model Year 2007 Engines

Manufacturer	Engine Families
AB Volvo Penta	7VPXL09.4BAA
	7VPXL12.1BAA
	7VPXL16.1ACB
Caterpillar	7CPXL07.2ESL
	7CPXL08.8ESK
	7CPXL11.1ESK
	7CPXL12.5ESK
	7CPXL15.2ESK
	7CPXL15.2ESL
	7CPXL18.1ESK
	7CPXL18.1ESL
	7CPXL27.0ESK
	7CPXL32.0ESK
	7CPXL51.8E2W
	7CPXL78.1ERK
	7CPXL34.5T2E
	7CPXL58.6T2E
	7CPXL78.1T2E
CNH Engine Corp.	7X9XL0505AAE
	7X9XL0540AAB
	7X9XL0239AAB
	7NHXL04.5DAA
	7NHXL04.5DCA
	7NHXL06.7DAA
	7NHXL06.7DCA
	7NHXL06.7DCB
	7NHXL06.7DTA
	7NHXL06.7DTC
Cummins	7CEXL015.AAA
	7CEXL015.AAB
	7CEXL015.AAE
	7CEXL019.AAD
	7CEXL023.AAA
	7CEXL0239AAG
	7CEXL0275AAC
	7CEXL0275AAG
	7CEXL0275AAH
	7CEXL03.3ABA
	7CEXL03.3ABB
	7CEXL03.3ACA
	7CEXL03.3ACB
	7CEXL030.AAB
	7CEXL030.AAD

Model Year 2007 Engines (Continued)

Manufacturer	Engine Families	
Cummins (cont.)	7CEXL030.ABA	
	7CEXL038.AAA	
	7CEXL0409AAB	
	7CEXL0409AAC	
	7CEXL045.AAA	
	7CEXL050.AAC	
	7CEXL050.AAD	
	7CEXL050.ABA	
	7CEXL0505AAE	
	7CEXL0540AAB	
	7CEXL060.AAB	
	7CEXL060.AAD	
	7CEXL0661AAF	
	7CEXL0661AAG	
	7CEXL0661AAH	
	7CEXL0661AAJ	
	7CEXL078.AAA	
	7CEXL078.AAB	
	DAIMLERCHRYSLER	7MBXL12.8RJB
		7MBXL15.9RJA
Deere	7JDXL03.0064	
	7JDXL04.5075	
	7JDXL04.5076	
	7JDXL04.5081	
	7JDXL04.5083	
	7JDXL06.8038	
	7JDXL06.8039	
	7JDXL06.8041	
	7JDXL06.8044	
	7JDXL06.8048	
	7JDXL06.8049	
	7JDXL06.8078	
	7JDXL06.8080	
	7JDXL06.8084	
	7JDXL06.8101	
	7JDXL06.8104	
	7JDXL06.8105	
	7JDXL06.8106	
7JDXL08.1037		
7JDXL09.0102		
7JDXL12.5035		
7JDXL12.5073		
7JDXL13.5103		

Model Year 2007 Engines (Continued)

Manufacturer	Engine Families	
Detroit Diesel Corporation	7DDXL14.0VLD	
	7DDXL14.0WLD	
Deutz	7DZXL03.1039	
	7DZXL03.1040	
	7DZXL03.1066	
	7DZXL06.1038	
	7DZXL06.1059	
	7DZXL06.1060	
	7DZXL06.1061	
	7DZXL06.1063	
	7DZXL06.5042	
	7DZXL06.5043	
	7DZXL07.1051	
	7DZXL07.1053	
	7DZXL07.1055	
	7DZXL15.9065	
	Doosan Infracore	7DWXL05.8CRN
		7DWXL05.8UTA
7DWXL07.6UPA		
7DWXL11.0UJA		
	7DWXL21.9UYA	
GNH UK LTD	7NHXL06.7DCC	
Hino Motors	7HMXL05.1JTA	
	7HMXL07.7JTM	
	7HMXL10.5PUN	
Ishikawajima-Shibaura Machinery	7H3XL2.22N4L	
Isuzu	7SZXL03.0IXA	
	7SZXL03.1GNA	
	7SZXL03.1GNB	
	7SZXL03.1GTB	
	7SZXL04.3GTG	
	7SZXL04.3GXA	
	7SZXL05.2HXA	
	7SZXL05.2IXA	
	7SZXL07.8HXA	
	7SZXL07.8HXB	
	7SZXL09.8HXA	
	7SZXL15.7HXA	
	7SZXL15.7HXB	

Model Year 2007 Engines (Continued)

Manufacturer	Engine Families
IVECO	7VEXL03.9B1Z
	7VEXL04.5DAA
	7VEXL04.5DGN
	7VEXL04.5DGT
	7VEXL06.7DAA
	7VEXL06.7DCA
	7VEXL06.7DCB
	7VEXL06.7DCC
	7VEXL06.7DGB
	7VEXL06.7DGS
	7VEXL06.7DTA
	7VEXL06.7DTC
	7VEXL08.7TR3
	7VEXL10.3MLR
	7VEXL12.9IGR
	7VEXL12.9MLR
	7VEXL12.9TR3
	7VEXL20.1DSL
	Komatsu
7KLXL0275AAC	
7KLXL0275AAG	
7KLXL0275AAH	
7KLXL03.3JA3	
7KLXL03.3JB3	
7KLXL03.3JD3	
7KLXL03.3JD6	
7KLXL03.3JD7	
7KLXL0359AAE	
7KLXL038.AAA	
7KLXL0409AAB	
7KLXL0409AAC	
7KLXL045.AAA	
7KLXL050.AAC	
7KLXL0505AAE	
7KLXL060.AAB	
7KLXL078.AAA	
7klxl11.0DD6	
7KLXL11.0DD6	
7KLXL15.2ED6	
7klxl15.2ED6	
7KLXL15.2ED7	
7KLXL23.2FD6	
7KLXL30.5GD3	

Model Year 2007 Engines (Continued)

Manufacturer	Engine Families
Kubota	7KBXL02.0FAD
	7KBXL02.4HCD
	7KBXL03.3BAC
	7KBXL03.3BAD
	7KBXL03.3BBD
	7KBXL03.3BCC
	7KBXL03.3BCD
	7KBXL03.3CCD
	7KBXL03.8AHD
	Lombardini S.R.L.
MAHINDRA & MAHINDRA LTD.,	7MMLL03.1NEF
	7MMLL03.2NEF
	7MMLL03.2NET
	7MMLL03.4NEF
	7MMLL03.5NEF
Mitsubishi Fuso Truck & Bus Corp	7MFTL02.8M4A
	7MFTL04.9M5A
	7MFTL07.5M6A
	7MFTL12.9M7A
Mitsubishi Heavy Industries	7MVXL05.0AAA
	7MVXL05.0AAC
	7MVXL05.0AAD
	7MVXL06.4FFF
	7MVXL24.5BBA
	7MVXL33.9BBA
	7MVXL37.1BBA
	7MVXL49.0BBA
7MVXL65.4BBA	
MotorenFabrik HATZ GMBH	7HZXL2.57C41
	7HZXL3.43C42
	7HZXL3.43V42
MTU Detroit Diesel, Inc.	7MDDL31.8XRR
	7MDDL95.4XTR
Nissan	7NDXL02.7TNA
	7NDXL03.0FTA
	7NDXL03.2TNA

Model Year 2007 Engines (Continued)

Manufacturer	Engine Families
Perkins Engines	7PKXL03.3DD1
	7PKXL04.4NH1
	7PKXL04.4RE1
	7PKXL06.6PJ1
	7PKXL06.6PJ2
	7PKXL15.2TA2
	7PKXL15.2TAG
	7PKXL18.1TAG
SCANIA CV AB	7Y9XL11.7BBA
	7Y9XL11.7BBB
	7Y9XL15.6BDE
Shandong Weichai Huafeng Power	7SDWL4.33BBB
	7SDWL7.52AAA
Sisu Diesel	7SIDL03.3G4A
	7SIDL04.4J2A
	7SIDL07.4G4D
	7SIDL07.4G4E
	7SIDL07.4G5B
Volvo Construction Equipment AB	7SIDL07.4G5C
	7SIDL08.4H5B
	7VSXL09.4CE3
	7VSXL12.1CE3
Yanmar	7VSXL16.1CE3
	7YDXL3.05M4N
	7YDXL3.05P4N
	7YDXL3.32J4N
	7YDXL3.32J4T
	7YDXL3.32K4T
	7YDXL3.32P4N
7YDXL4.41K4T	

Model Year 2008 Engines

Manufacturer	Engine Families
AB Volvo Penta	8VPXL09.4BAA
	8VPXL12.1BAA
	8VPXL12.8BCA
	8VPXL16.1ACB
	8VPXL16.1ACW
Caterpillar	8CPXL07.2ESL
	8CPXL08.8ESK
	8CPXL106.T2E
	8CPXL11.1ESK
	8CPXL12.5ESK
	8CPXL15.2ELW
	8CPXL15.2ESW
	8CPXL18.1ESK
	8CPXL18.1ESW
	8CPXL18.1ESX
	8CPXL27.0ESK
	8CPXL27.0ESW
	8CPXL27.0ESX
	8CPXL32.0ESW
	8CPXL32.0ESX
	8CPXL34.5E2W
	8CPXL34.5T2E
	8CPXL51.8E2W
	8CPXL58.6T2E
	8CPXL58.6T2X
8CPXL78.1E2W	
8CPXL78.1T2E	
CNH Engine	8X9XL0540AAB
CNH UK LTD	8NHXL04.5DAA
	8NHXL04.5DAB
	8NHXL04.5DCA
	8NHXL04.5DCB
	8NHXL06.7DAA
	8NHXL06.7DCA
	8NHXL06.7DCB
8NHXL06.7DCC	

Model Year 2008 Engines (Continued)

Manufacturer	Engine Families	
Cummins	8CEXL015.AAA	
	8CEXL015.AAB	
	8CEXL015.AAE	
		8CEXL015.AAH
		8CEXL015.AAJ
		8CEXL019.AAD
		8CEXL023.AAA
		8CEXL023.AAB
		8CEXL023.AAC
		8CEXL0275AAG
		8CEXL0275AAH
		8CEXL0275AAK
		8CEXL03.3ACA
		8CEXL03.3ACB
		8CEXL03.3ACD
		8CEXL03.3ACE
		8CEXL030.AAB
		8CEXL030.AAD
		8CEXL030.ABA
		8CEXL0409AAB
		8CEXL0409AAC
		8CEXL0409AAD
		8CEXL045.AAA
		8CEXL050.AAA
		8CEXL050.AAC
		8CEXL050.AAD
		8CEXL050.ABA
		8CEXL0505AAE
		8CEXL0540AAB
		8CEXL060.AAB
	8CEXL060.AAD	
	8CEXL0661AAF	
	8CEXL0661AAG	
	8CEXL0661AAH	
	8CEXL0661AAJ	
	8CEXL078.AAA	
	8CEXL078.AAB	
	8CEXL2.28A41	

Model Year 2008 Engines (Continued)

Manufacturer	Engine Families
DAIMLERCHRYSLER	8MBXL07.2RJA
	8MBXL12.8RJB
	8MBXL15.9RJA
Detroit Diesel	8DDXL14.0VLD
Deutz	8DZXL02.3099
	8DZXL02.7096
	8DZXL03.2088
	8DZXL03.6081
	8DZXL03.6082
	8DZXL03.6084
	8DZXL03.6086
	8DZXL03.6097
	8DZXL03.6098
	8DZXL04.1069
	8DZXL04.1070
	8DZXL04.1076
	8DZXL04.1078
	8DZXL04.1079
	8DZXL04.1080
	8DZXL04.8064
	8DZXL04.8068
	8DZXL04.8071
	8DZXL05.4087
	8DZXL06.1057
	8DZXL06.1059
	8DZXL06.1060
	8DZXL06.1061
	8DZXL06.1063
	8DZXL06.1067
	8DZXL06.1077
	8DZXL06.5074
	8DZXL06.5075
	8DZXL07.1051
	8DZXL07.1053
	8DZXL07.1055
	8DZXL07.1056
	8DZXL15.9065
DOOSAN INFRACORE	8DWXL05.8UTA
	8DWXL07.6UPA
	8DWXL11.0UJA
	8DWXL21.9UYA
HINO MOTORS	8HMXL05.1JTA

Model Year 2008 Engines (Continued)

Manufacturer	Engine Families
Ishikawajima	8H3XL2.00N4T
	8H3XL2.22N4L
	8H3XL2.22N4T
Isuzu	8SZXL02.2UTA
	8SZXL02.2UXA
	8SZXL03.0IXA
	8SZXL03.0JTA
	8SZXL03.0JXA
	8SZXL03.0JXB
	8SZXL03.0UTB
	8SZXL05.2HXA
	8SZXL05.2IXA
	8SZXL05.2IXB
	8SZXL07.8HXA
	8SZXL07.8HXB
	8SZXL09.8HXA
	8SZXL09.8HXB
	8SZXL15.7HXA
	8SZXL15.7HXB
IVECO	8VEXL03.2TAI
	8VEXL03.2TCE
	8VEXL03.2TCI
	8VEXL04.5DAA
	8VEXL04.5DAB
	8VEXL04.5DCA
	8VEXL04.5DCB
	8VEXL06.7DAA
	8VEXL06.7DCA
	8VEXL06.7DCB
	8VEXL06.7DCC
	8VEXL06.7DGB
	8VEXL06.7DGS
	8VEXL08.7TR3
	8VEXL10.3MLR
	8VEXL10.3TR3
	8VEXL12.9IGR
	8VEXL12.9MLR
	8VEXL12.9TCD
	8VEXL20.1DSL
JCB Power Systems	8JCBL04.4TA7
	8JCBL04.4TA8
	8JCBL04.4TAE
	8JCBL04.4TC6

Model Year 2008 Engines (Continued)

Manufacturer	Engine Families
John Deere Power	8JDXL03.0064
	8JDXL03.0208
	8JDXL04.5075
	8JDXL04.5083
	8JDXL04.5107
	8JDXL06.8038
	8JDXL06.8039
	8JDXL06.8041
	8JDXL06.8049
	8JDXL06.8078
	8JDXL06.8080
	8JDXL06.8101
	8JDXL06.8104
	8JDXL06.8105
	8JDXL06.8106
	8JDXL08.1037
	8JDXL09.0102
	8JDXL09.0114
	8JDXL12.5035
	8JDXL13.5103
Komatsu	8KLXL0275AAG
	8KLXL0275AAH
	8KLXL03.3JA6
	8KLXL03.3JB6
	8KLXL03.3JD6
	8KLXL03.3JD7
	8KLXL03.3JD9
	8KLXL0409AAB
	8KLXL0409AAC
	8KLXL050.AAA
	8KLXL050.AAC
	8KLXL0505AAE
	8KLXL060.AAA
	8KLXL060.AAB
	8KLXL078.AAA
	8KLXL11.0DD6
	8KLXL15.2ED6
	8KLXL15.2ED7
	8KLXL23.2FD5
	8KLXL23.2FD6
8KLXL23.2FD7	
8KLXL30.5GD3	

Model Year 2008 Engines (Continued)

Manufacturer	Engine Families
Kubota	8KBXL02.4FAD
	8KBXL02.4HAD
	8KBXL02.6EAD
	8KBXL03.3CAD
	8KBXL03.6BAC
	8KBXL03.6BAD
	8KBXL03.6BCD
	8KBXL03.6DAD
	8KBXL03.8AAC
	8KBXL03.8AGD
Kukje Machinery	8KMCL2.28A41
M/S. SIMPSON & C.	8SCLL02.7V50
Liebherr Machines	8LHAL10.5LPA
	8LHAL10.5LPE
	8LHAL12.0KPA
	8LHAL12.8RMC
	8LHAL24.2VCE
	8LHAL9.54SPA
Liebherr Werk	8LHAL21.9VMR
Mitsubishi	8MVXL02.5HHH
	8MVXL03.3AAC
	8MVXL04.2BBB
	8MVXL04.2CCC
	8MVXL05.0AAD
	8MVXL05.0AAG
	8MVXL06.4FFF
	8MVXL24.5BBA
	8MVXL33.9BBA
	8MVXL37.1BBA
	8MVXL49.0BBA
	8MVXL65.4BBA
MAHINDRA & MAHINDRA	8MMLL02.5N52
	8MMLL02.5N57
	8MMLL02.5N59
	8MMLL02.5N62
	8MMLL02.5N64
	8MMLL02.7M30
	8MMLL03.3N75
	8MMLL03.3N79

Model Year 2008 Engines (Continued)

Manufacturer	Engine Families
MOTORENFABRIK	8HZXL3.43C42
	8HZXL3.43V42
MTU DETROIT DIESEL	8MDDL31.8XRR
	8MDDL35.8GRR
	8MDDL95.4XTR
NISSAN DIESEL	8NDXL03.2TNA
	8NDXL04.2TNA
Perkins Engines	8PKXL04.4NH1
	8PKXL04.4NJ1
	8PKXL04.4NJ2
	8PKXL04.4NM1
	8PKXL04.4RG3
	8PKXL06.6PJ1
	8PKXL06.6PJ2
	8PKXL15.2TA2
	8PKXL15.2TAG
	8PKXL18.1TAG
Scania	8Y9XL11.7BBA
	8Y9XL11.7BBB
	8Y9XL15.6BDE
Volvo	8VSXL09.4CE3
	8VSXL12.1CE3
	8VSXL16.1CE3
Yanmar	8YDXL2.00N4T
	8YDXL3.32C4N
	8YDXL3.32C4T
	8YDXL3.32R4N
	8YDXL3.32M4N
	8YDXL3.32M4T

Model Year 2009 Engines

Manufacturer	Engine Families	
AB Volvo Penta	9VPXL09.4BAA	
	9VPXL12.1BAA	
	9VPXL12.8BCA	
	9VPXL16.1ACB	
	9VPXL16.1ACW	
	9VPXL16.1BEA	
	9VSXL09.4CE3	
	9VSXL12.1CE3	
	9VSXL16.1CE3	
Caterpillar	9CPXL07.2ESL	
	9CPXL08.8ESK	
	9CPXL106.T2E	
	9CPXL11.1ESK	
	9CPXL12.5ESK	
	9CPXL12.5ESX	
	9CPXL14.2ELW	
	9CPXL15.2ESW	
	9CPXL18.1ESK	
	9CPXL18.1ESW	
	9CPXL18.1ESX	
	9CPXL27.0ESK	
	9CPXL27.0ESW	
	9CPXL27.0ESX	
	9CPXL27.0ESX	
	9CPXL32.0ESP	
	9CPXL32.0ESW	
	9CPXL32.0ESX	
	9CPXL34.5T2C	
	9CPXL34.5T2E	
	9CPXL58.6T2E	
	9CPXL58.6T2X	
	9CPXL58.6T2Y	
	9CPXL78.1E2W	
	9CPXL78.1T2E	
	CNH UK LTD	9NHXL04.5DAA
		9NHXL04.5DAB
9NHXL04.5DCA		
9NHXL04.5DCB		
9NHXL06.7DAA		
9NHXL06.7DCA		
9NHXL06.7DCB		
9NHXL06.7DCC		

Model Year 2009 Engines (Continued)

Manufacturer	Engine Families	
Cummins	9CEXL015.AAA	
	9CEXL015.AAE	
	9CEXL015.AAH	
		9CEXL015.AAJ
		9CEXL019.AAD
		9CEXL023.AAA
		9CEXL023.AAB
		9CEXL023.AAC
		9CEXL0275AAG
		9CEXL0275AAH
		9CEXL0275AAK
		9CEXL03.3ACA
		9CEXL03.3ACB
		9CEXL03.3ACD
		9CEXL03.ACE
		9CEXL030.AAB
		9CEXL030.AAD
		9CEXL030.ABA
		9CEXL0409AAB
		9CEXL0409AAC
		9CEXL0409AAD
		9CEXL045.AAA
		9CEXL050.AAA
		9CEXL050.AAC
		9CEXL050.AAD
		9CEXL050.AAF
		9CEXL050.ABA
		9CEXL0505AAE
		9CEXL0540AAB
		9CEXL0540AAD
	9CEXL060.AAB	
	9CEXL060.AAD	
	9CEXL0661AAF	
	9CEXL0661AAG	
	9CEXL0661AAH	
	9CEXL0661AAJ	
	9CEXL078.AAA	
	9CEXL2.28A41	

Model Year 2009 Engines (Continued)

Manufacturer	Engine Families
Detroit Diesel	9DDXL14.DVLD
Deutz	9DXZL04.8071
	9DZL04.8073
	9DZXL02.3048
	9DZXL02.3099
	9DZXL02.7096
	9DZXL03.2088
	9DZXL03.6081
	9DZXL03.6082
	9DZXL03.6084
	9DZXL03.6086
	9DZXL03.6097
	9DZXL03.6098
	9DZXL04.1069
	9DZXL04.1070
	9DZXL04.1072
	9DZXL04.1076
	9DZXL04.1078
	9DZXL04.1079
	9DZXL04.1080
	9DZXL04.8064
	9DZXL04.8068
	9DZXL06.1057
	9DZXL06.1059
	9DZXL06.1060
	9DZXL06.1061
	9DZXL06.1063
	9DZXL06.1067
	9DZXL06.1077
	9DZXL06.5074
	9DZXL07.1051
	9DZXL07.1053
	9DZXL07.1055
	9DZXL07.1056
	9DZXL15.9065
DOOSAN INFRACORE	9DICL05.8UTA
	9DICL07.6UPA
	9DICL11.0UJA
HINO MOTORS	9HMXL04.0NUA
	9HMXL05.1JTA
	9HMXL07.7JTM
	9HMXL10.5PUN
	9HMXL10.5PUP
	9HXML12.9EUV

Model Year 2009 Engines (Continued)

Manufacturer	Engine Families
Isuzu	9SZXL02.2UXA
	9SZXL03.0IXA
	9SZXL03.0JTA
	9SZXL03.0JXA
	9SZXL03.0JXB
	9SZXL03.0UTB
	9SZXL05.2HXA
	9SZXL05.2IXA
	9SZXL05.2IXB
	9SZXL07.8HXA
	9SZXL07.8HXB
	9SZXL09.8HXA
	9SZXL09.8HXB
	9SZXL15.7HXA
	9SZXL15.7HXB
IVECO	9VEXL03.2TCE
	9VEXL03.2TCI
	9VEXL04.4DCB
	9VEXL04.5DAA
	9VEXL04.5DAB
	9VEXL04.5DCA
	9VEXL06.7DAA
	9VEXL06.7DCA
	9VEXL06.7DCB
	9VEXL06.7DCC
	9VEXL06.7DGB
	9VEXL06.7DGS
	9VEXL08.7TR3
	9VEXL10.3MLR
	9VEXL10.3TR3
	9VEXL12.9IGR
	9VEXL12.9MLR
	9VEXL12.9TCD
	9VEXL20.1DSL
JCB Power Systems	9JCBL04.4TA7
	9JCBL04.4TA8
	9JCBL04.4TAE
	9JCBL04.4TC6

Model Year 2009 Engines (Continued)

Manufacturer	Engine Families
John Deere Power	9JDXL03.0064
	9JDXL03.0113
	9JDXL03.0203
	9JDXL03.0208
	9JDXL04.5083
	9JDXL04.5107
	9JDXL06.8049
	9JDXL06.8080
	9JDXL06.8101
	9JDXL06.8104
	9JDXL06.8105
	9JDXL06.8106
	9JDXL08.1037
	9JDXL09.0102
	9JDXL09.0114
	9JDXL13.5103
Komatsu	9KLXL0275AAG
	9KLXL0275AAH
	9KLXL03.3JA6
	9KLXL03.3JB6
	9KLXL03.3JD6
	9KLXL03.3JD7
	9KLXL0409AAB
	9KLXL0409AAC
	9KLXL050.AAA
	9KLXL050.AAC
	9KLXL0505AAE
	9KLXL060.AAA
	9KLXL060.AAB
	9KLXL11.0DD6
	9KLXL15,2ED7
	9KLXL15.2ED6
	9KLXL23.2FD5
	9KLXL23.2FD6
9KLXL23.2FD7	
9KLXL30.5GD3	
9XLXL03.3JD9	

Model Year 2009 Engines (Continued)

Manufacturer	Engine Families
Kubota	9KBXL02.4FAD
	9KBXL02.4HAD
	9KBXL02.6EAD
	9KBXL03.3CAD
	9KBXL03.6BAC
	9KBXL03.6BAD
	9KBXL03.6BCD
	9KBXL03.6DAD
	9KBXL03.8AAC
	9KBXL03.8AGD
	9KBXL03.8AHD
	9KBXL06.1AHD
Kukje Machinery	9KMCL2.28A41
Liebherr Machines	9LHAL10.5LPA
	9LHAL10.5LPE
	9LHAL12.0KPA
	9LHAL12/8RMC
	9LHAL24.2VCE
	9LHAL24.2VCI
LOMBARDINI MOTORI	9LBDL2.19CH2
Mitsubishi	9MFTL02.8M4B
	9MFTL04.9M5A
	9MFTL07.5M6A
	9MFTL12.9M7A
	9MVXL03.3AAC
	9MVXL03.3AAH
	9MVXL04.2BBB
	9MVXL04.2CCC
	9MVXL05.0AAD
	9MVXL06.4FFF
	9MVXL24.5BBA
9MVXL33.9BBA	
9MVXL37.1BBA	
9MVXL49.0BBA	
9MVXL65.4BBA	

Model Year 2009 Engines (Continued)

Manufacturer	Engine Families
MOTORENFABRIK	9HZXL2.57C41
	9HZXL2.57V41
	9HZXL3.43C42
	9HZXL3.43V42
MTU DETROIT DIESEL	9MDDL31.8XRR
	9MDDL35.8GRR
	9MDDL95.4XTR
NAVISTAR	9NVXL0466ANA
NISSAN DIESEL	9NDXL03.2TNA
	9NDXL04.2TNA
Perkins Engines	9PKXL04.4NJ1
	9PKXL04.4NJ2
	9PKXL04.4NM1
	9PKXL04.4NM2
	9PKXL04.4RG3
	9PKXL06.6PJ1
	9PKXL06.6PJ2
	9PKXL12.5TAG
	9PKXL15.2TAG
	9PKXL15.2TAG
	9PKXL18.1TAG
Scania	9Y9XL11.7BBA
	9Y9XL11.7BBB
	9Y9XL15.6BDE
TOYOTA INDUSTRIAL	9TALL02.51DZ
Yanmar	9YDXL2.00N4T
	9YDXL3.05K4N
	9YDXL3.32C4N
	9YDXL3.32C4T
	9YDXL3.32M4N
	9YDXL3.32M4T

Model Year 2010 Engines

Manufacturer	Engine Families
AB Volvo Penta	AVPXL16.1ACB
	AVPXL16.1ACG
	AVPXL16.1ACW
AGCO Sisu	ASIDL07.4G5C
CATERPILLAR	ACPXL07.2ESL
	ACPXL08.8ESK
	ACPXL08.8ESL
	ACPXL08.8ESX
	ACPXL10.3ESL
	ACPXL11.1ESK
	ACPXL12.5ESK
	ACPXL12.5ESX
	ACPXL14.6ESK
	ACPXL15.2ELW
	ACPXL15.2ESW
	ACPXL15.2ESX
	ACPXL18.1ESK
	ACPXL18.1ESW
	ACPXL18.1ESX
	ACPXL27.0ESK
	ACPXL27.0ESW
	ACPXL27.0ESX
	ACPXL32.0ESP
	ACPXL32.0ESW
	ACPXL32.0ESX
	ACPXL34.5T2C
	ACPXL34.5T2E
	ACPXL58.6T2E
	ACPXL58.6T2X
	ACPXL58.6T2Y
	ACPXL78.1E2W
	ACPXL78.1ERK
	ACPXL78.1T2E
	ACPXL78.1T2X
ACPXL106.T2E	
ACPXL106.T2M	

Model Year 2010 Engines (Continued)

Manufacturer	Engine Families
CNH UK	ANHXL04.5DCB
Cummins	ACEXL2.28A41
	ACEXL03.3ACA
	ACEXL03.3ACB
	ACEXL03.3ACD
	ACEXL03.3ACE
	ACEXL03.3BAA
	ACEXL015.AAE
	ACEXL015.AAH
	ACEXL015.AAJ
	ACEXL019.AAD
	ACEXL023.AAA
	ACEXL023.AAB
	ACEXL023.AAC
	ACEXL030.AAB
	ACEXL030.AAD
	ACEXL030.ABA
	ACEXL045.AAA
	ACEXL050.AAA
	ACEXL050.AAC
	ACEXL050.AAD
	ACEXL050.AAF
	ACEXL050.ABA
	ACEXL060.AAB
	ACEXL060.AAD
	ACEXL060.AAE
	ACEXL078.AAA
	ACEXL078.AAE
	ACEXL0275AAG
	ACEXL0275AAH
	ACEXL0275AAK
ACEXL0409AAB	
ACEXL0409AAC	
ACEXL0409AAD	
ACEXL0505AAE	
ACEXL0540AAB	
ACEXL0540AAC	
ACEXL0540AAD	
ACEXL0661AAF	
ACEXL0661AAG	
ACEXL0661AAJ	

Model Year 2010 Engines (Continued)

Manufacturer	Engine Families
Daimler AG	AMBXL07.2RJA
	AMBXL12.8RJB
	AMBXL15.9RJA
Detroit Diesel	ADDXL14.0WLD
DEUTZ AG	ADZXL07.1052
Doosan Infracore	ADICL05.8UTA
	ADICL07.6UPA
	ADICL11.0UJA
	ADICL18.3USA
	ADICL21.9UYA
Hyundai	AHYXL03.9TDI
IHI Shibaura	AH3XL2.00N4T
	AH3XL2.22N4L
IVECO	AVEXL04.5DCB
	AVEXL06.7DGB
	AVEXL06.7DGS
	AVEXL08.7TR3
	AVEXL10.3MLR
	AVEXL10.3TR3
	AVEXL12.9IGR
	AVEXL12.9MLR
	AVEXL12.9TCD
	AVEXL20.1DSL
JCB	AJCBL04.4TA7
	AJCBL04.4TA8
	AJCBL04.4TAE
	AJCBL04.4TC6
John Deere	AJDXL03.0064
	AJDXL03.0113
	AJDXL03.0203
	AJDXL03.0206
	AJDXL03.0208
	AJDXL04.5083
	AJDXL04.5107
	AJDXL06.8049
	AJDXL06.8078
	AJDXL06.8080
	AJDXL06.8104
	AJDXL06.8105
	AJDXL06.8106
	AJDXL06.8117
	AJDXL08.1037
	AJDXL09.0114

Model Year 2010 Engines (Continued)

Manufacturer	Engine Families
Komatsu	AKLXL0409AAB
	AKLXL050.AAC
	AKLXL0505AAE
	AKLXL060.AAB
	AKLXL0275AAG
	AKLXL0275AAH
	AKLXL03.3JA6
	AKLXL03.3JB6
	AKLXL03.3JD6
	AKLXL03.3JD7
	AKLXL03.3JD9
	AKLXL0409AAC
	AKLXL050.AAA
	AKLXL060.AAA
	AKLXL078.AAA
	AKLXL23.2FD5
	AKLXL23.2FD6
	AKLXL23.2FD7
	AKLXL30.5GD3
KUBOTA	AKBXL02.4HAD
	AKBXL03.6BCD
Kukje	AKMCL2.28A41
	AKMCL2.39A44
Liebherr	ALHAL10.5LPA
	ALHAL12.0KPA
	ALHAL24.2VCI
	ALHAL9.54SPA
Mitsubishi Fuso	AMFTL02.8M4B
Mitsubishi	AMVXL02.5HHH
	AMVXL03.3AAC
	AMVXL03.3AAE
	AMVXL03.3AAH
	AMVXL04.2BBB
	AMVXL04.2CCC
	AMVXL05.0AAD
	AMVXL05.0AAG
	AMVXL06.4FFF
	AMVXL24.5BBA
	AMVXL33.9BBA
	AMVXL37.1BBA
	AMVXL49.0BBA
	AMVXL65.4BBA
	AMVXL65.4BBB

Model Year 2010 Engines (Continued)

Manufacturer	Engine Families
MTU Detroit Diesel	AMDDL21.0GWR
	AMDDL31.8XRR
	AMDDL35.8GRR
	AMDDL90.0GTP
	AMDDL95.4GTP
	AMDDL95.4XTR
Nissan Diesel	ANDXL02.7TNA
	ANDXL03.2TNA
	ANDXL04.2TNA
Perkins	APKXL04.4NJ1
	APKXL04.4NJ2
	APKXL04.4NM1
	APKXL04.4NM2
	APKXL04.4RG3
	APKXL06.6PJ1
	APKXL06.6PJ2
	APKXL12.5TAG
	APKXL15.2TA2
	APKXL15.2TAG
	APKXL18.1TAG
SCANIA	AY9XL11.7BBA
	AY9XL11.7BBB
	AY9XL15.6BDE
TOYOTA	ATALL02.51DZ
	ATALL03.503Z
	ATALL05.215Z
VM Motori	AV5XL04.5T60
Yanmar	AYDXL3.32R4N
Zhejiang Xinchai	AZHXL3.17AAA

Model Year 2011 Engines

Manufacturer	Engine Families
AB Volvo Penta	BVPXL16.1ACB
	BVPXL16.1ACG
	BVPXL16.1ACW
AGCO Sisu	BSIDL07.4G4E
	BSIDL07.4G5C
Caterpillar Inc.	BCPXL08.8NZS
	BCPXL106.NZS
	BCPXL11.1ESK
	BCPXL12.5ESK
	BCPXL15.2ESW
	BCPXL15.2NYS
	BCPXL15.2NZS
	BCPXL18.1ESK
	BCPXL18.1NYS
	BCPXL18.1NZS
	BCPXL27.0NZS
	BCPXL32.0NZS
	BCPXL78.1NZS
CNH UK LTD	BNHXL04.5DCB
	BNHXL06.7DCA
	BNHXL06.7DCB
Cummins Inc.	BCEXL015.AAH
	BCEXL015.AAJ
	BCEXL023.AAB
	BCEXL0275AAG
	BCEXL0275AAH
	BCEXL0275AAK
	BCEXL03.3ACA
	BCEXL03.3ACB
	BCEXL03.3ACD
	BCEXL03.3ACE
	BCEXL030.AAD
	BCEXL0409AAB
	BCEXL0409AAC
	BCEXL0409AAD
	BCEXL050.AAC
	BCEXL050.AAD
	BCEXL0505AAE
	BCEXL0540AAB
BCEXL060.AAB	
BCEXL060.AAD	

Model Year 2011 Engines (Continued)

Manufacturer	Engine Families
Daimler AG	BMBXL04.3RJA
Detroit Diesel	BDDXL14.0WLD
Doosan Infracore	BDICL05.8UTA
	BDICL18.3USA
	BDICL21.9UYA
Hyundai	BHYXL03.9TDI
IHI Shibaura	BH3XL2.00N4T
	BH3XL2.22N4L
Iseki Matsuyama	BICLL2.96D4H
	BICLL3.37D4H
	BICLL3.37D4I
IVECO S.p.A.	BVEXL03.2TAI
	BVEXL04.5DAA
	BVEXL04.5DAB
	BVEXL04.5DCA
	BVEXL04.5DCB
	BVEXL06.7DAA
	BVEXL06.7DCA
	BVEXL06.7DCB
	BVEXL06.7DCC
	BVEXL06.7DGB
	BVEXL06.7DGS
	BVEXL08.7TR3
	BVEXL10.3TR3
BVEXL12.9IGR	
JCB	BJCBL04.4TA7
	BJCBL04.4TA8
	BJCBL04.4TAE
	BJCBL04.4TC6
John Deere	BJDXL03.0064
	BJDXL03.0113
	BJDXL03.0203
	BJDXL03.0206
	BJDXL03.0208
	BJDXL04.5107
	BJDXL04.5130
	BJDXL06.8078
	BJDXL06.8104
	BJDXL06.8105
	BJDXL06.8106
	BJDXL06.8117
	BJDXL06.8120
BJDXL09.0114	
BJDXL13.5132	

Model Year 2011 Engines (Continued)

Manufacturer	Engine Families
Komatsu Ltd	BKLXL0275AAG
Komatsu Ltd	BKLXL0275AAH
Komatsu Ltd	BKLXL03.3JA6
Komatsu Ltd	BKLXL03.3JB6
Komatsu Ltd	BKLXL03.3JD6
Komatsu Ltd	BKLXL03.3JD7
Komatsu Ltd	BKLXL03.3JD9
Komatsu Ltd	BKLXL0409AAC
Komatsu Ltd	BKLXL050.AAC
Komatsu Ltd	BKLXL060.AAB
Komatsu Ltd	BKLXL23.2FD5
KUBOTA	BKBXL02.4HAD
KUBOTA	BKBXL03.6BCD
Kukje	BKMCL2.28A41
Kukje	BKMCL2.39A44
Kukje	BKMCL3.41D42
Mitsubishi	BMVXL02.5HHH
Mitsubishi	BMVXL03.3AAC
Mitsubishi	BMVXL03.3AAH
Mitsubishi	BMVXL04.2BBB
Mitsubishi	BMVXL04.2CCC
Mitsubishi	BMVXL05.0AAD
Mitsubishi	BMVXL05.0AAG
Mitsubishi	BMVXL06.4FFF
Mitsubishi	BMVXL24.5BBA
Mitsubishi	BMVXL33.9BBA
Mitsubishi	BMVXL37.1BBA
Mitsubishi	BMVXL49.0BBA
Mitsubishi	BMVXL65.4BBA
Mitsubishi	BMVXL65.4BBB
Mitsubishi Fuso	BMFTL02.8M4B
MTU Detroit Diesel	BMDDL14.0ZWK
MTU Detroit Diesel	BMDDL21.0ZWR
MTU Detroit Diesel	BMDDL31.8XRR
MTU Detroit Diesel	BMDDL35.8GRR
MTU Detroit Diesel	BMDDL95.4XTR

Model Year 2011 Engines (Continued)

Manufacturer	Engine Families
Perkins	BPKXL04.4NJ1
Perkins	BPKXL04.4NJ2
Perkins	BPKXL04.4NM1
Perkins	BPKXL04.4NM2
Perkins	BPKXL04.4RG3
Perkins	BPKXL06.6PJ1
Perkins	BPKXL06.6PJ2
Perkins	BPKXL06.6PJ3
Perkins	BPKXL12.5TAG
Perkins	BPKXL15.2TA2
Perkins	BPKXL15.2TAG
Perkins	BPKXL18.1TAG
Simpson & Co	BSCLL02.7V58
Simpson & Co	BSCLL03.6V74
TOYOTA	BTALL02.51DZ
TOYOTA	BTALL05.215Z
UD Trucks	BNDXL02.7TNA
UD Trucks	BNDXL03.2TNA
UD Trucks	BNDXL04.2TNA
VM Motori	BV5XL04.5T60
Yanmar	BYDXL3.32R4N

Model Year 2012 Engines

Manufacturer	Engine Families
Caterpillar Inc.	CCPXL07.2ESJ
	CCPXL08.8ESJ
	CCPXL08.8Nzs
	CCPXL106.Nzs
	CCPXL11.1ESJ
	CCPXL11.1ESK
	CCPXL12.5ESJ
	CCPXL12.5ESK
	CCPXL15.2ESJ
	CCPXL15.2ESW
	CCPXL15.2HZA
	CCPXL15.2NYS
	CCPXL15.2Nzs
	CCPXL18.1ESJ
	CCPXL18.1ESK
	CCPXL18.1HZA
	CCPXL18.1NYS
	CCPXL18.1Nzs
	CCPXL27.0ESJ
	CCPXL27.0HYA
	CCPXL27.0HZA
	CCPXL27.0Nzs
	CCPXL32.0HZA
	CCPXL32.0Nzs
	CCPXL78.1Nzs
Cummins Inc.	CCEXL15.0AAI
	CCEXL015.AAH
	CCEXL015.AAJ
	CCEXL019.AAD
	CCEXL023.AAB
	CCEXL0275AAG
	CCEXL0275AAH
	CCEXL0275AAK
	CCEXL03.3ACD
	CCEXL03.3ACE
	CCEXL030.AAD
	CCEXL0409AAB
	CCEXL0409AAC
	CCEXL0409AAD
	CCEXL050.AAD
	CCEXL0505AAE
	CCEXL0540AAB
	CCEXL060.AAD
	CCEXL0661AAH

Model Year 2012 Engines (continued)

Manufacturer	Engine Families
DAEDONG	CDCLL02.2D7T
	CDCLL02.4B7T
DEERE	CJDXL03.0113
	CJDXL03.0203
	CJDXL03.0206
	CJDXL03.0208
	CJDXL04.5107
	CJDXL04.5119
	CJDXL04.5130
	CJDXL04.5141
	CJDXL04.5212
	CJDXL06.8115
	CJDXL06.8116
	CJDXL06.8117
	CJDXL06.8120
	CJDXL09.0114
	CJDXL09.0140
	CJDXL13.5103
	CJDXL13.5132
Detroit Diesel	CDDXL14.0VLD
	CDDXL14.0WLD
DEUTZ AG	CDZXL02.3099
	CDZXL02.7096
	CDZXL03.6081
	CDZXL03.6082
	CDZXL03.6084
	CDZXL03.6085
	CDZXL05.4087
Doosan Infracore	CDICL18.3USA
	CDICL21.9UYA
FPT INDUSTRIAL	CFPXL03.2SCE
	CFPXL03.2TAI
	CFPXL03.2TCI
	CFPXL06.7DGB
	CFPXL06.7DGS
	CFPXL08.7TR3
	CFPXL10.3TR3
	CFPXL12.9IGR

Model Year 2012 Engines (continued)

Manufacturer	Engine Families	
ISEKI	CICLL2.96D4H	
	CICLL3.37D4H	
ISM	CH3XL2.00N4T	
	CH3XL2.22N4L	
ISUZU	CSZXL02.2UTA	
	CSZXL02.2UXA	
	CSZXL03.0UTA	
	CSZXL03.0UTB	
JCB POWER SYS	CJCBL04.4TC5	
KOMATSU LTD.	CKLXL03.3JA6	
	CKLXL03.3JB6	
	CKLXL03.3JD9	
	CKLXL23.2FD5	
	CKBXL02.4FAD	
KUBOTA	CKBXL02.4HAD	
	CKBXL02.6EAD	
	CKBXL03.3CAD	
	CKBXL03.6BAC	
	CKBXL03.6BCD	
	CKBXL03.6DAD	
	CKBXL03.8AAC	
	CKBXL03.8CGD	
	KUKJE	CKMCL2.28A41
		CKMCL3.41D43
M&M	CMMLL02.5N52	
	CMMLL02.5N59	
	CMMLL02.5N62	
	CMMLL02.5N64	
MFTA	CMFTL02.8M4B	
MITSUBISHI	CMVXL02.5HHH	
	CMVXL03.3AAC	
	CMVXL03.3AAH	
	CMVXL05.0AAD	
MOTORENFABRIK HATZ	CHZXL3.43C42	
	CHZXL3.43V42	
MTU DD	CMDDL14.0ZWK	
	CMDDL21.0ZWR	
	CMDDL31.8XRR	
	CMDDL35.7XNC	
	CMDDL35.8GRR	

Model Year 2012 Engines (continued)

Manufacturer	Engine Families
MTU DD (cont.)	CMDDL57.2XTC
	CMDDL95.4XTR
NISSAN DIESEL	CNDXL02.7TNA
	CNDXL03.2TNA
PERKINS	CPKXL04.4NH1
	CPKXL04.4NJ1
	CPKXL04.4NJ2
	CPKXL04.4NM1
	CPKXL04.4NM2
	CPKXL06.6PJ1
	CPKXL06.6PJ2
	CPKXL06.6PJ3
	CPKXL12.5TAG
	CPKXL15.2TA2
SIMPSON & CO	CPKXL15.2TAG
	CPKXL18.1TAG
	CSCLL02.7V58
TIEM	CSCLL03.6V74
	CTIEL02.51DZ
VOLKSWAGEN VPX	CTIEL05.26CA
	CVWXL02.0CBJ
	CVPXL09.4BAA
	CVPXL12.8BCA
	CVPXL16.1ACB
	CVPXL16.1ACG
	CVPXL16.1ACW
	CVPXL16.1ADA
	CVPXL16.1BDA
	CVPXL16.1BEA
YANGDONG	CYNDL2.55AAA
YANMAR	CYDXL2.00N4T
	CYDXL3.32C4N
	CYDXL3.32C4T
	CYDXL3.32F4T
	CYDXL3.32M4N
	CYDXL3.32R4N

Model Year 2013 Engines

Manufacturer	Engine Families
Caterpillar Inc.	DCPXL07.2ESJ
	DCPXL08.8ESJ
	DCPXL08.8NZZ
	DCPXL106.NZZ
	DCPXL11.1ESJ
	DCPXL12.5ESJ
	DCPXL15.2NYS
	DCPXL15.2NZZ
	DCPXL18.1ESJ
	DCPXL18.1NYS
	DCPXL18.1NZZ
	DCPXL27.0NZZ
	DCPXL32.0NZZ
	DCPXL78.1NZZ
Cummins Inc.	DCEXL015.AAH
	DCEXL015.AAJ
	DCEXL019.AAD
	DCEXL023.AAB
	DCEXL0275AAG
	DCEXL0275AAH
	DCEXL0275AAK
	DCEXL030.AAD
	DCEXL0409AAB
	DCEXL0409AAC
	DCEXL0409AAD
	DCEXL050.AAD
	DCEXL0505AAE
	DCEXL0540AAB
	DCEXL060.AAD
	DCEXL0661AAH
DEERE	DJDXL03.0208
	DJDXL04.5111
	DJDXL04.5119
	DJDXL04.5130
	DJDXL04.5141
	DJDXL04.5212
	DJDXL04.5214
	DJDXL06.8104
	DJDXL06.8105
	DJDXL06.8106
	DJDXL06.8120
	DJDXL09.0114
	DJDXL13.5132

Model Year 2013 Engines (continued)

Manufacturer	Engine Families
DETROIT DIESEL	DDDXL14.0WLD
DOOSAN	DDICL18.3USA
	DDICL21.9UYA
FPT INDUSTRIAL	DFPXL04.5DTD
	DFPXL06.7DGB
	DFPXL06.7DGS
	DFPXL08.7TR3
	DFPXL10.3TR3
ISM	DH3XL2.22N4L
KOMATSU LTD.	DKLXL060.AAE
	DKLXL23.2FD5
KUKJE MACHINERY	DKMCL3.41D43
MINISUBISHI	DMVXL24.5BBA
	DMVXL33.9BBA
	DMVXL37.1BBA
	DMVXL49.0BBA
	DMVXL65.4BBA
	DMVXL65.4BBB
MTU DD	DMDDL14.0ZWK
	DMDDL21.0ZWR
	DMDDL31.8XRR
	DMDDL35.8GRR
	DMDDL95.4XTR
PERKINS	DPKXL04.4NH1
	DPKXL04.4NJ1
	DPKXL04.4NJ2
	DPKXL04.4NM1
	DPKXL04.4NM2
	DPKXL06.6PJ1
	DPKXL06.6PJ2
	DPKXL06.6PJ3
	DPKXL12.5TAG
	DPKXL15.2TA2
	DPKXL15.2TAG
	DPKXL18.1TAG
VPX	DVPXL16.1ACB
	DVPXL16.1ACG
	DVPXL16.1ACW

Model Year 2014 Engines

Manufacturer	Engine Families
Caterpillar Inc.	ECPXL08.8NZS
	ECPXL106.NZS
	ECPXL12.5NYS
	ECPXL15.2NYS
	ECPXL15.2NZS
	ECPXL18.1NYS
	ECPXL18.1NZS
	ECPXL27.0NZS
	ECPXL32.0NZS
	ECPXL78.1NZS
	Cummins Inc.
ECEXL015.AAJ	
ECEXL019.AAD	
ECEXL0275AAG	
ECEXL0275AAH	
ECEXL0275AAK	
ECEXL03.3ACF	
ECEXL03.3ACG	
ECEXL03.3ACH	
ECEXL03.3ACK	
ECEXL030.AAD	
ECEXL0409AAB	
ECEXL0409AAC	
ECEXL0409AAD	
ECEXL050.AAD	
ECEXL0505AAE	
ECEXL0540AAB	
ECEXL060.AAD	
ECEXL0661AAH	
ECEXL13.0AAA	
DEERE	EJDXL03.0208
	EJDXL04.5119
	EJDXL04.5130
	EJDXL04.5141
	EJDXL04.5212
	EJDXL04.5214
	EJDXL06.8105
	EJDXL06.8120
	EJDXL09.0114
	EJDXL13.5132
	EJDXL13.5146

Model Year 2014 Engines (continued)

Manufacturer	Engine Families
DETROIT DIESEL	EDDXL14.0WLD
DOOSAN	EDICL18.3USA
	EDICL21.9UYA
FPT INDUSTRIAL	EFPXL08.7TR3
	EFPXL06.7DGS
	EFPXL10.3TR3
	EFPXL06.7DGB
ISM	EH3XL2.22CN3
	EH3XL2.22N4L
KOMATSU LTD.	EKLXL23.2FD5
	EKLXL060.AAE
KUKJE MACHINERY	EKMCL3.41D43
MITSUBISHI	EMVXL24.5BBA
	EMVXL33.9BBA
	EMVXL37.1BBA
	EMVXL49.0BBA
	EMVXL65.4BBA
	EMVXL65.4BBB
MTU DD	EMDDL14.0ZWK
	EMDDL21.0ZWR
	EMDDL31.8XRR
	EMDDL35.8GRR
	EMDDL95.4XTR
PERKINS	EPKXL04.4NH1
	EPKXL04.4NH3
	EPKXL04.4NJ1
	EPKXL04.4NJ2
	EPKXL04.4NJ3
	EPKXL04.4NM1
	EPKXL04.4NM2
	EPKXL06.6PJ1
EPKXL06.6PJ2	
	EPKXL07.0PW1
VPX	EVPXL16.1ACB
	EVPXL16.1ACG
	EVPXL16.1ACW

Model Year 2015 Engines

Manufacturer	Engine Families
Caterpillar Inc.	FCPXL08.8NZS
	FCPXL106.NZS
	FCPXL12.5NYS
	FCPXL15.2NYS
	FCPXL15.2NZS
	FCPXL18.1NYS
	FCPXL18.1NZS
	FCPXL27.0NZS
	FCPXL32.0NZS
	FCPXL78.1NZS
Cummins Inc.	FCEXL015.AAH
	FCEXL015.AAJ
	FCEXL019.AAD
	FCEXL023.AAB
	FCEXL0275AAG
	FCEXL0275AAH
	FCEXL0275AAK
	FCEXL030.AAD
	FCEXL0409AAB
	FCEXL0409AAC
	FCEXL0409AAD
	FCEXL050.AAD
	FCEXL0505AAE
	FCEXL0540AAB
	FCEXL060.AAD
	FCEXL0661AAH
	FCEXL13.0AAA
	FCEXL95.0AAA
DEERE	FJDXL04.5119
	FJDXL04.5141
	FJDXL04.5212
	FJDXL04.5214
	FJDXL06.8120
	FJDXL09.0114
	FJDXL13.5132
	FJDXL13.5146
DETROIT DIESEL	FDDXL14.0WLD

Model Year 2015 Engines (continued)

Manufacturer	Engine Families
FPT INDUSTRIAL	FFPXL03.2TCI
	FFPXL04.5DCB
	FFPXL06.7DGB
	FFPXL06.7DGS
	FFPXL08.7TR3
	FFPXL10.3TR3
ISM	FH3XL2.22N4L
KOMATSU LTD.	FKLXL23.2FD5
KUKJE MACHINERY	FKMCL3.41D43
MERCEDES- BENZ	FMBXL07.2RJC
MITSUBISHI	FMVXL24.5BBA
	FMVXL33.9BBA
	FMVXL37.1BBA
	FMVXL49.0BBA
	FMVXL65.4BBA
MTU DD	FMDL14.0ZWK
	FMDL21.0ZWR
	FMDL31.8XRR
	FMDL35.8GRR
	FMDL40.1GNR
	FMDL95.4XTR
PERKINS	FPKXL04.4NH1
	FPKXL04.4NJ1
	FPKXL04.4NM1
	FPKXL04.4NM2
	FPKXL04.4NR2
	FPKXL06.6PJ1
	FPKXL06.6PJ2
	FPKXL07.0PW1
	FPKXL07.0PW2
VPX	FVPXL16.1ACB
	FVPXL16.1ACG
	FVPXL16.1ACW

Model Year 2016 Engines

Manufacturer	Engine Families
Caterpillar Inc.	GCPXL08.8NZS
	GCPXL106.NZS
	GCPXL12.5NYS
	GCPXL15.2NYS
	GCPXL15.2NZS
	GCPXL18.1NYS
	GCPXL18.1NZS
	GCPXL27.0NZS
	GCPXL32.0NZS
	GCPXL78.1NZS
Cummins Inc.	GCEXL015.AAH
	GCEXL015.AAJ
	GCEXL019.AAD
	GCEXL023.AAB
	GCEXL0275AAG
	GCEXL0275AAH
	GCEXL0275AAK
	GCEXL030.AAD
	GCEXL0409AAB
	GCEXL0409AAC
	GCEXL0409AAD
	GCEXL050.AAD
	GCEXL0505AAE
	GCEXL0540AAB
	GCEXL060.AAD
	GCEXL0661AAH
	GCEXL13.0AAA
	GCEXL95.0AAA
DEERE	GJDXL02.9142
	GJDXL04.5119
	GJDXL04.5141
	GJDXL04.5212
	GJDXL04.5214
	GJDXL06.8120
	GJDXL09.0114
	GJDXL13.5132
	GJDXL13.5146
DETROIT DIESEL	GDDXL14.0WLD
FPT INDUSTRIAL	GFPXL04.5DCB
	GFPXL06.7DGB
	GFPXL06.7DGS
	GFPXL08.7TR3
	GFPXL10.3TR3
	GFPXL12.9IGR

Model Year 2016 Engines (continued)

Manufacturer	Engine Families
ISM	GH3XL2.22N4L
KUBOTA.	GKBXL03.6BAC
KUKJE MACHINERY	GKMCL3.41D43
MERCEDES- BENZ	GMBXL07.2RJC
MITSUBISHI	GMVXL03.3AAJ
	GMVXL03.3CBA
	GMVXL24.5BBA
	GMVXL33.9BBA
	GMVXL37.1BBA
	GMVXL49.0BBA
	GMVXL65.4BBA
MTU DD	GMDDL14.0ZWK
	GMDDL21.0ZWR
	GMDDL31.8XRR
	GMDDL35.8GRR
	GMDDL40.1GNR
	GMDDL95.4GTR
PERKINS	GPKXL04.4NH1
	GPKXL04.4NJ1
	GPKXL04.4NM1
	GPKXL04.4NM2
	GPKXL04.4NR1
	GPKXL04.4NR2
	GPKXL06.6PJ1
	GPKXL06.6PJ2
	GPKXL07.0PW1
	GPKXL07.0PW2
VPX	GVPXL16.1ACB
	GVPXL16.1ACG
	GVPXL16.1ACW

Model Year 2017 Engines

Manufacturer	Engine Families
Caterpillar Inc.	HCPXL08.8NZS
	HCPXL106.NZS
	HCPXL12.5NYS
	HCPXL15.2NYS
	HCPXL15.2NZS
	HCPXL18.1NYS
	HCPXL18.1NZS
	HCPXL27.0NZS
	HCPXL32.0NZS
	HCPXL78.1NZS
Cummins Inc.	HCEXL015.AAH
	HCEXL015.AAJ
	HCEXL019.AAD
	HCEXL023.AAB
	HCEXL0275AAG
	HCEXL0275AAH
	HCEXL0275AAK
	HCEXL030.AAD
	HCEXL0409AAB
	HCEXL0409AAC
	HCEXL0409AAD
	HCEXL050.AAD
	HCEXL0505AAE
	HCEXL0540AAB
	HCEXL060.AAD
	HCEXL0661AAH
	HCEXL95.0AAA
DEERE	HJDXL02.9142
	HJDXL04.5119
	HJDXL04.5141
	HJDXL04.5212
	HJDXL04.5214
	HJDXL06.8120
	HJDXL09.0114
	HJDXL13.5132
	HJDXL13.5146
DETROIT DIESEL	HDDXL14.0WLD
FPT INDUSTRIAL	HFPXL04.5DCB
	HFPXL06.7DGB
	HFPXL06.7DGS
	HFPXL08.7TR3
	HFPXL10.3TR3
	HFPXL12.9IGR

Model Year 2017 Engines (continued)

Manufacturer	Engine Families
ISM	HH3XL2.22N4L
KUBOTA.	HKBXL03.6BAC
KUKJE MACHINERY	HKMCL3.41D43
LMB	HLHAL45.0ESP
	HLHAL103.ESP
MERCEDES- BENZ	HMBXL07.2RJC
MITSUBISHI	HMVXL03.3AAJ
	HMVXL03.3CBA
	HMVXL24.5BBA
	HMVXL33.9BBA
	HMVXL37.1BBA
	HMVXL49.0BBA
	HMVXL65.4BBA
MTU DD	HMDDL14.0ZWK
	HMDDL21.0ZWR
	HMDDL31.8XRR
	HMDDL35.8GRR
	HMDDL40.1GNR
	HMDDL95.4GTR
PERKINS	HPKXL04.4NL1
	HPKXL04.4NM1
	HPKXL04.4NM2
	HPKXL04.4NP1
	HPKXL04.4NR1
	HPKXL04.4NR2
	HPKXL07.0PW1
	HPKXL07.0PW2
VPX	HVPXL16.1ACB
	HVPXL16.1ACG
	HVPXL16.1ACW

Model Year 2018 Engines

Manufacturer	Engine Families
Caterpillar Inc.	JCPXL08.8NZS
	JCPXL106.NZS
	JCPXL12.5NYS
	JCPXL15.2NYS
	JCPXL15.2NZS
	JCPXL18.1NYS
	JCPXL18.1NZS
	JCPXL27.0NZS
	JCPXL32.0NZS
	JCPXL78.1NZS
Cummins Inc.	JCEXL015.AAH
	JCEXL015.AAJ
	JCEXL019.AAD
	JCEXL023.AAB
	JCEXL0275AAG
	JCEXL0275AAH
	JCEXL0275AAK
	JCEXL030.AAD
	JCEXL0409AAB
	JCEXL0409AAC
	JCEXL0409AAD
	JCEXL050.AAD
	JCEXL0505AAE
	JCEXL0540AAB
	JCEXL060.AAD
	JCEXL0661AAH
	JCEXL95.0AAA
	DEERE
JJDXL04.5119	
JJDXL04.5141	
JJDXL04.5214	
JJDXL06.8120	
JJDXL09.0114	
JJDXL13.5132	
JJDXL13.5146	
FPT INDUSTRIAL	JFPXL06.7DGB
	JFPXL06.7DGS
	JFPXL08.7TR3
	JFPXL10.3TR3
	JFPXL12.9IGR
KOEL AMERICAS	JKOEL3.24TAX

Model Year 2018 Engines (continued)

Manufacturer	Engine Families
KUBOTA.	JKBXL03.6BAC
KUKJE MACHINERY	JKMCL3.41D43
LMB	JLHAL45.0ESP
	JLHAL103.ESP
MERCEDES- BENZ	JMBXL07.2RJC
MITSUBISHI	JMVXL03.3AAJ
	JMVXL03.3CBA
	JMVXL24.5BBA
	JMVXL33.9BBA
	JMVXL37.1BBA
MTU DD	JMVXL49.0BBA
	JMVXL65.4BBA
	JMDDL14.0ZWK
	JMDDL21.0ZWR
	JMDDL35.8GRR
PERKINS	JMDDL40.1GNR
	JMDDL95.4GTR
	JPKXL04.4NL1
	JPKXL04.4NM1
	JPKXL04.4NM2
VPX	JPKXL04.4NP1
	JPKXL04.4NR1
	JPKXL04.4NR2
	JPKXL07.0PW1
	JPKXL07.0PW2
VPX	JVPXL16.1ACB
	JVPXL16.1ACG
	JVPXL16.1ACW

Model Year 2019 Engines

Manufacturer	Engine Families
Caterpillar Inc.	KCPXL08.8NZS
	KCPXL106.NZS
	KCPXL12.5NYS
	KCPXL15.2NYS
	KCPXL15.2NZS
	KCPXL18.1NYS
	KCPXL18.1NZS
	KCPXL27.0NZS
	KCPXL32.0NZS
	KCPXL78.1NZS
Cummins Inc.	KCEXL015.AAH
	KCEXL015.AAJ
	KCEXL019.AAD
	KCEXL023.AAB
	KCEXL0275AAG
	KCEXL0275AAH
	KCEXL0275AAK
	KCEXL030.AAD
	KCEXL0409AAB
	KCEXL0409AAC
	KCEXL0409AAD
	KCEXL050.AAD
	KCEXL0505AAE
	KCEXL0540AAB
	KCEXL060.AAD
	KCEXL0661AAH
	KCEXL95.0AAA
DEERE	KJDXL02.9142
	KJDXL04.5119
	KJDXL04.5141
	KJDXL04.5214
	KJDXL06.8120
	KJDXL09.0114
	KJDXL13.5132
	KJDXL13.5146
FPT INDUSTRIAL	KFPXL06.7DGB
	KFPXL06.7DGS
	KFPXL08.7TR3
	KFPXL10.3TR3
	KFPXL12.9IGR

Model Year 2019 Engines (continued)

Manufacturer	Engine Families
KUBOTA.	KKBXL03.6BAC
KUKJE MACHINERY	KKMCL3.41D43
LMB	KLHAL45.0ESP
	KLHAL103.ESP
mitsubishi	KMVXL03.3AAJ
	KMVXL03.3CBA
	KMVXL24.5BBA
	KMVXL33.9BBA
	KMVXL37.1BBA
	KMVXL49.0BBA
	KMVXL65.4BBA
MTU DD	KMDDL14.0ZWK
	KMDDL21.0ZWR
	KMDDL35.8GRR
	KMDDL40.1GNR
	KMDDL95.4GTR
PERKINS	KPKXL04.4NL1
	KPKXL04.4NM1
	KPKXL04.4NM2
	KPKXL04.4NP1
	KPKXL04.4NR1
	KPKXL04.4NR2
	KPKXL07.0PW1
	KPKXL07.0PW2
VPX	KVPXL16.1ACB
	KVPXL16.1ACG
	KVPXL16.1ACW

APPENDIX A-3: EMISSION CALCULATIONS

Table 1a. Critical Backup Generator Engine Parameters

Parameter	Value
Make	Caterpillar
Model	3516C
Model Year	2020
Tier	2
Engine Family	LCPXL78.1NZS
Estimated Annual Hours of Operation per Engine (hr/yr) ¹	50
Power Output at full load per Engine (bhp) ²	3,634
Fuel Consumption Rate at full load per Engine (gal/hr) ²	175.30
Heating Value of Diesel per Engine (Btu/gal) ³	137,000
Heat Input per Engine (MMBtu/hr) ⁴	24.02
Fuel	Diesel
Number of Engines	50
Diesel Particulate Filter Control Efficiency (%) ⁵	85

1. The critical backup emergency engine is limited to 50 hr/yr for non-emergency purposes per Title 17, CCR Section 93115.6(a)(3)(A)(1)(c): ATCM for Stationary CI Engines.

2. Based on manufacturer data.

3. Heating value of diesel provided in AP-42, Appendix A (09/85).

4. Heat Input (MMBtu/hr) = Fuel Consumption Rate (gal/hr) * Heating Value of Diesel (Btu/gal) / 1,000,000 (Btu/MMBtu).

5. Control efficiency for the Rypos HDPF/C diesel particulate filter per California Air Resource Board Executive Order DE-07-001-07, available here: <https://ww3.arb.ca.gov/diesel/verdev/vt/stationary/rypos/eode0700107.pdf> and <https://ww3.arb.ca.gov/diesel/verdev/vt/stationary/rypos/ryposengfam0700107.pdf>

Table 1b. Life Safety Generator Engine Parameters

Parameter	Value
Make	Caterpillar
Model	C18
Model Year	2020
Tier	2
Engine Family	LCPXL18.1NYS
Estimated Annual Hours of Operation per Engine (hr/yr) ¹	50
Power Output at full load per Engine (bhp) ²	900
Fuel Consumption Rate at full load per Engine (gal/hr) ²	42.70
Heating Value of Diesel per Engine (Btu/gal) ³	137,000
Heat Input per Engine (MMBtu/hr) ⁴	5.85
Fuel	Diesel
Number of Engines	2
Diesel Particulate Filter Control Efficiency (%) ⁵	85

1. The life safety emergency engine is limited to 50 hr/yr for non-emergency purposes per Title 17, CCR Section 93115.6(a)(3)(A)(1)(c): ATCM for Stationary CI Engines.

2. Based on manufacturer data.

3. Heating value of diesel provided in AP-42, Appendix A (09/85).

4. Heat Input (MMBtu/hr) = Fuel Consumption Rate (gal/hr) * Heating Value of Diesel (Btu/gal) / 1,000,000 (Btu/MMBtu).

5. Control efficiency for the Rypos HDPF/C diesel particulate filter per California Air Resource Board Executive Order DE-07-001-07, available here: <https://ww3.arb.ca.gov/diesel/verdev/vt/stationary/rypos/eode0700107.pdf> and <https://ww3.arb.ca.gov/diesel/verdev/vt/stationary/rypos/ryposengfam0700107.pdf>

Table 1c. Security Building Generator Engine Parameters

Parameter	Value
Make	Caterpillar/Perkins
Model	C7.1
Model Year	2020
Tier	3
Engine Family	LPKXL07.0PW1
Estimated Annual Hours of Operation per Engine (hr/yr) ¹	50
Power Output at full load per Engine (bhp) ⁴	280
Fuel Consumption Rate at full load per Engine (gal/hr) ⁴	13.70
Heating Value of Diesel per Engine (Btu/gal) ³	137,000
Heat Input per Engine (MMBtu/hr) ⁴	1.88
Fuel	Diesel
Number of Engines	1

1. The security building emergency engine is limited to 50 hr/yr for non-emergency purposes per Title 17, CCR Section 93115.6(a)(3)(A)(1)(c): ATCM for Stationary CI Engines.

2. Based on manufacturer data, assuming 2020 model year.

3. Heating value of diesel provided in AP-42, Appendix A (09/85).

4. Heat Input (MMBtu/hr) = Fuel Consumption Rate (gal/hr) * Heating Value of Diesel (Btu/gal) / 1,000,000 (Btu/MMBtu).

Table 2a. Critical Backup Generator Engine Criteria Pollutant Emission Factors

Pollutant	Emission Factor
PM (grams/bhp-hr) ^{1,2}	0.09
NO _x (grams/bhp-hr) ¹	3.78
VOC (grams/bhp-hr) ¹	0.19
CO (grams/bhp-hr) ¹	0.67
SO ₂ (grams/bhp-hr) ³	5.50E-03

- Emission factors per EPA engine family certification levels.
- It is conservatively assumed that emission factors for PM₁₀ and PM_{2.5} are equivalent to the emission factor for PM.
- The proposed engines will use ultra low sulfur diesel fuel which contains 0.0015% sulfur as defined under 40 CFR 80, Subpart I. The SO₂ emission factor is from AP-42 Section 3.4, Table 3.4-1 (10/96).

Table 2b. Life Safety Generator Engine Criteria Pollutant Emission Factors

Pollutant	Emission Factor
PM (grams/bhp-hr) ^{1,2}	0.082
NO _x (grams/bhp-hr) ¹	4.21
VOC (grams/bhp-hr) ¹	0.082
CO (grams/bhp-hr) ¹	0.60
SO ₂ (grams/bhp-hr) ³	5.50E-03

- Emission factors per EPA engine family certification levels.
- It is conservatively assumed that emission factors for PM₁₀ and PM_{2.5} are equivalent to the emission factor for PM.
- The proposed engines will use ultra low sulfur diesel fuel which contains 0.0015% sulfur as defined under 40 CFR 80, Subpart I. The SO₂ emission factor is from AP-42 Section 3.4, Table 3.4-1 (10/96).

Table 2c. Security Building Generator Engine Criteria Pollutant Emission Factors

Pollutant	Emission Factor
PM (grams/bhp-hr) ^{1,2}	0.089
NO _x (grams/bhp-hr) ¹	2.744
VOC (grams/bhp-hr) ¹	0.060
CO (grams/bhp-hr) ¹	0.820
SO ₂ (grams/bhp-hr) ³	5.50E-03

- Emission factors per EPA engine family certification levels.
- It is conservatively assumed that emission factors for PM₁₀ and PM_{2.5} are equivalent to the emission factor for PM.
- The proposed engines will use ultra low sulfur diesel fuel which contains 0.0015% sulfur as defined under 40 CFR 80, Subpart I. The SO₂ emission factor is from AP-42 Section 3.4, Table 3.4-1 (10/96).

Table 3. Generator Engine Criteria Pollutant Potential to Emit

Pollutant	Generator Engine Potential to Emit ¹				
	Potential Hourly Emissions per Engine (lb/hr) ^{2,3}			Potential Daily Emissions (lb/day) ⁴	Potential Annual Emissions (tpy) ⁵
	Critical Backup Generator	Life Safety Generator	Security Building Generator		
PM/PM ₁₀ /PM _{2.5}	0.11	0.02	0.06	4.49	0.14
NO _x	30.3	8.36	1.69	968	38.32
VOC	1.55	0.16	0.04	42.1	1.95
CO	5.38	1.18	0.51	170	6.79
SO ₂	0.044	0.011	0.01	1.58	0.06

- This table reflects emission estimates for routine maintenance and testing activities conducted pursuant to manufacturer specifications.
- Conversion from gram to pound: 1 g = 0.0022 lbs
- Potential emissions per engine for NO_x, VOC, CO, and SO₂ (lb/hr) = Diesel Emission Factor (gram/bhp-hr) * 0.0022 lbs/gram * Power Output (bhp).
Potential emissions per engine for PM, PM₁₀, and PM_{2.5} (lb/hr) = Diesel Emission Factor (gram/bhp-hr) * 0.0022 lbs/gram * Power Output (bhp) * [1 - Control Efficiency (%)].
- Potential daily emissions (lb/day) = Critical Backup Generator Potential Emissions (lb/hr) * Critical Backup Generator Maximum Hours Per Day (hr/day) + Life Safety Generator Potential Emissions (lb/hr) * Life Safety Generator Maximum Hours Per Day (hr/day) + Security Building Generator Potential Emissions (lb/hr) * Security Building Maximum Hours Per Day (hr/day).

The Critical Backup Generator Maximum Hours Per Day for any combination of critical backup generator engine is 24 hours.
The Life Safety Generator Maximum Hours Per Day for any combination of life safety generators is 24 hours.
The Security Building Generator Maximum Hours Per Day is 24 hours.
- Potential emissions (tpy) = Critical Backup Generator Potential Emissions (lb/hr) * Critical Backup Generator Maximum Hours Per Year (hr/yr) * Number of generators / 2,000 (lb/ton) + Life Safety Generator Potential Emissions (lb/hr) * Life Safety Generator Maximum Hours Per Year (hr/yr) * Number of generators / 2,000 (lb/ton) + Security Building Generator Potential Emissions (lb/hr) * Security Building Generator Maximum Hours Per Year (hr/yr) * Number of generators / 2,000 (lb/ton)

Table 4. Generator Engine Greenhouse Gas Potential to Emit

Pollutant	Global Warming Potential ¹	Emission Factor (kg/MMBtu) ²	Potential CO ₂ e Emissions Per Engine (MT per year) ³			Facility-Wide Generator Engine Potential CO ₂ e Emissions (all engines) (MT per year) ⁴
			Critical Backup Generator	Life Safety Generator	Security Building Generator	
CO ₂	1	74	88.81	21.63	6.94	4,491
CH ₄	25	3.00E-03	0.09	0.02	0.01	5
N ₂ O	298	6.00E-04	0.21	0.05	0.02	11
Total CO₂e Emissions (MT):						4,506

1. Global Warming Potentials are obtained from Subpart A of 40 CFR 98, Table A-1 "Global Warming Potentials" (11/29/13).

2. Emission factor for carbon dioxide is obtained from 40 CFR 98, Table C-1 to Subpart C for Distillate Fuel Oil No. 2. Emission factors for methane and nitrous oxide are obtained from 40 CFR 98, Table C-2 to Subpart C for Petroleum Products.

3. CO₂e Potential Emissions Per Engine per Pollutant (MT per year) = EF (kg/MMBtu) * GWP * Heat Input (MMBtu/hr) * Annual Hours of Operation (hr/yr) /1,000 kg/MT).

4. Total CO₂e Potential Emissions (MT per year) = Sum of CO₂e Potential Emissions per Critical Backup Generator Engine per Pollutant (MT per year) * Number of engines + Sum of CO₂e Potential Emissions per Life Safety Generator Engine per Pollutant (MT per year) * Number of engines + Sum of CO₂e Potential Emissions per Security Building Generator Engine per Pollutant (MT per year) * Number of engines.

Table 5. Generator Engine Comparison to BAAQMD CEQA Thresholds of Significance

Pollutant	BAAQMD CEQA Operational Significance Threshold ¹	Facility-Wide Generator Engine Emissions	Daily Threshold Exceeded?	BAAQMD CEQA Operational Significance Threshold ¹	Facility-Wide Generator Engine Emissions	Annual Threshold Exceeded?
	(lb/day)			(tpy)		
PM ₁₀	82	4.49	No	15	0.14	No
PM _{2.5}	54	4.49	No	10	0.14	No
NO _x	54	968	Yes	10	38.3	Yes
ROG	54	42.1	No	10	1.95	No
CO	N/A	170	N/A	N/A	6.79	N/A
SO ₂	N/A	1.58	N/A	N/A	0.06	N/A
GHGs - Stationary Sources (MT per year)	--	--	--	10,000	4,506	No

1. Per Table 2-1 of the BAAQMD California Environmental Quality Act Air Quality Guidelines, May 2017 available here:

http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en

Mitigation Measure AQ-1 (Option 1)

Construction: Criteria Pollutants

Construction Year	Pollutant (tpy)										Pollutant (lb/day)											
	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*		
Unmitigated																						
2021	1.010	11.124	8.416	0.022	0.668	0.424	1.092	0.240	0.398	0.638	7.772	85.565	64.739	0.172	5.136	3.259	8.396	1.848	3.059	4.908		
2022	6.715	7.230	6.307	0.015	0.307	0.299	0.606	0.083	0.283	0.366	51.655	55.614	48.512	0.115	2.358	2.300	4.658	0.639	2.175	2.814		
2023	6.702	7.747	6.692	0.020	0.790	0.273	1.062	0.274	0.258	0.532	51.552	59.589	51.474	0.155	6.074	2.099	8.172	2.106	1.983	4.090		
2024	4.558	9.269	10.142	0.023	0.294	0.380	0.673	0.080	0.358	0.437	35.062	71.302	78.018	0.174	2.258	2.919	5.178	0.612	2.750	3.362		
2025	4.983	3.183	3.417	0.008	0.169	0.116	0.285	0.046	0.111	0.156	38.332	24.483	26.287	0.062	1.300	0.893	2.193	0.352	0.850	1.202		
2026	4.981	3.175	3.396	0.008	0.169	0.116	0.285	0.046	0.110	0.156	38.315	24.425	26.125	0.062	1.300	0.893	2.193	0.352	0.849	1.202		
2027	1.211	0.503	0.536	0.001	0.027	0.018	0.045	0.007	0.018	0.025	9.317	3.865	4.124	0.010	0.207	0.142	0.348	0.056	0.135	0.191		
Mitigated																						
2021	0.452	6.791	8.629	0.022	0.462	0.238	0.700	0.152	0.234	0.386	3.478	52.241	66.377	0.172	3.551	1.832	5.382	1.169	1.798	2.968		
2022	6.190	3.647	5.814	0.015	0.307	0.167	0.474	0.083	0.166	0.249	47.618	28.052	44.725	0.115	2.358	1.285	3.642	0.639	1.278	1.917		
2023	6.223	4.858	6.342	0.020	0.585	0.188	0.773	0.186	0.188	0.373	47.871	37.370	48.787	0.155	4.501	1.448	5.948	1.428	1.442	2.871		
2024	4.000	6.841	10.399	0.023	0.294	0.349	0.642	0.080	0.346	0.425	30.768	52.620	79.993	0.174	2.258	2.682	4.940	0.612	2.659	3.272		
2025	4.746	1.992	3.048	0.008	0.169	0.105	0.274	0.046	0.105	0.151	36.506	15.325	23.448	0.062	1.300	0.808	2.108	0.352	0.808	1.160		
2026	4.744	1.985	3.027	0.008	0.169	0.105	0.274	0.046	0.105	0.151	36.489	15.266	23.287	0.062	1.300	0.808	2.108	0.352	0.808	1.160		
2027	1.174	0.314	0.478	0.001	0.027	0.017	0.044	0.007	0.017	0.024	9.027	2.415	3.675	0.010	0.207	0.128	0.335	0.056	0.128	0.184		
Maximum Mitigated Emissions	6.22	6.84	10.40	0.02	0.59	0.35	0.77	0.19	0.35	0.43	47.87	52.62	79.99	0.17	4.50	2.68	5.95	1.43	2.66	3.27		
BAAQMD CEQA Thresholds	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54	54	N/A	N/A	N/A	N/A	82	N/A	N/A	54		
Mitigated Exceeds Thresholds?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	NO	N/A	N/A	N/A	N/A	NO	N/A	N/A	NO		

Construction daily emissions based on 260 total weekdays per year.

*PM Totals are inclusive of Fugitive and Exhaust emissions

Operation (2023): Criteria Pollutants

Category	Pollutant (tpy)										Pollutant (lb/day)									
	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*
Area	1.83	0.00	0.01	0.00			0.00			0.00	10.05	0.00	0.03	0.00			0.00			0.00
Energy	0.06	0.57	0.48	0.00			0.04			0.04	0.34	3.11	2.61	0.02			0.24			0.24
Mobile	0.05	0.23	0.72	0.00			0.27			0.07	0.26	1.26	3.92	0.02			1.46			0.40
Waste							0.00			0.00	0.00	0.00	0.00	0.00			0.00			0.00
Water							0.00			0.00	0.00	0.00	0.00	0.00			0.00			0.00
Stationary Source	1.95	38.32	6.79	0.06			0.14			0.14	42.07	968.23	169.60	1.58			4.49			4.49
Total Emissions	3.89	39.12	7.99	0.06			0.45			0.25	52.72	972.60	176.17	1.62			6.19			5.13
BAAQMD CEQA Thresholds	10	10	N/A	N/A			15			10	54	54	N/A	N/A			82			54
Exceeds Thresholds?	NO	YES	N/A	N/A			NO			NO	NO	YES	N/A	N/A			NO			NO

Operational daily emissions based on 365 total weekdays per year.

*PM Totals are inclusive of Fugitive and Exhaust emissions

Mitigation Measure AQ-1 (Option 2)

Construction: Criteria Pollutants

Construction Year	Pollutant (tpy)										Pollutant (lb/day)									
	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*
Unmitigated																				
2021	1.010	11.124	8.416	0.022	0.668	0.424	1.092	0.240	0.398	0.638	7.772	85.565	64.739	0.172	5.136	3.259	8.396	1.848	3.059	4.908
2022	6.715	7.230	6.307	0.015	0.307	0.299	0.606	0.083	0.283	0.366	51.655	55.614	48.512	0.115	2.358	2.300	4.658	0.639	2.175	2.814
2023	6.702	7.747	6.692	0.020	0.790	0.273	1.062	0.274	0.258	0.532	51.552	59.589	51.474	0.155	6.074	2.099	8.172	2.106	1.983	4.090
2024	4.558	9.269	10.142	0.023	0.294	0.380	0.673	0.080	0.358	0.437	35.062	71.302	78.018	0.174	2.258	2.919	5.178	0.612	2.750	3.362
2025	4.983	3.183	3.417	0.008	0.169	0.116	0.285	0.046	0.111	0.156	38.332	24.483	26.287	0.062	1.300	0.893	2.193	0.352	0.850	1.202
2026	4.981	3.175	3.396	0.008	0.169	0.116	0.285	0.046	0.110	0.156	38.315	24.425	26.125	0.062	1.300	0.893	2.193	0.352	0.849	1.202
2027	1.211	0.503	0.536	0.001	0.027	0.018	0.045	0.007	0.018	0.025	9.317	3.865	4.124	0.010	0.207	0.142	0.348	0.056	0.135	0.191
Mitigated																				
2021	0.434	6.722	9.094	0.022	0.462	0.256	0.718	0.152	0.253	0.405	3.335	51.708	69.952	0.172	3.551	1.971	5.522	1.169	1.949	3.118
2022	6.192	3.719	5.814	0.015	0.307	0.172	0.479	0.083	0.172	0.255	47.631	28.608	44.725	0.115	2.358	1.326	3.684	0.639	1.319	1.958
2023	6.223	4.858	6.342	0.020	0.585	0.188	0.773	0.186	0.188	0.373	47.871	37.370	48.787	0.155	4.501	1.448	5.948	1.428	1.442	2.871
2024	4.000	6.841	10.399	0.023	0.294	0.349	0.642	0.080	0.346	0.425	30.768	52.620	79.993	0.174	2.258	2.682	4.940	0.612	2.659	3.272
2025	4.746	1.992	3.048	0.008	0.169	0.105	0.274	0.046	0.105	0.151	36.506	15.325	23.448	0.062	1.300	0.808	2.108	0.352	0.808	1.160
2026	4.744	1.985	3.027	0.008	0.169	0.105	0.274	0.046	0.105	0.151	36.489	15.266	23.287	0.062	1.300	0.808	2.108	0.352	0.808	1.160
2027	1.174	0.314	0.478	0.001	0.027	0.017	0.044	0.007	0.017	0.024	9.027	2.415	3.675	0.010	0.207	0.128	0.335	0.056	0.128	0.184
Maximum Mitigated Emissions	6.22	6.84	10.40	0.02	0.59	0.35	0.77	0.19	0.35	0.43	47.87	52.62	79.99	0.17	4.50	2.68	5.95	1.43	2.66	3.27
BAAQMD CEQA Thresholds	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54	54	N/A	N/A	N/A	N/A	82	N/A	N/A	54
Mitigated Exceeds Thresholds?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	NO	N/A	N/A	N/A	N/A	NO	N/A	N/A	NO

Construction daily emissions based on 260 total weekdays per year.

*PM Totals are inclusive of Fugitive and Exhaust emissions

Operation (2023): Criteria Pollutants

Category	Pollutant (tpy)										Pollutant (lb/day)									
	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*
Area	1.83	0.00	0.01	0.00			0.00			0.00	10.05	0.00	0.03	0.00			0.00			0.00
Energy	0.06	0.57	0.48	0.00			0.04			0.04	0.34	3.11	2.61	0.02			0.24			0.24
Mobile	0.05	0.23	0.72	0.00			0.27			0.07	0.26	1.26	3.92	0.02			1.46			0.40
Waste							0.00			0.00	0.00	0.00	0.00	0.00			0.00			0.00
Water							0.00			0.00	0.00	0.00	0.00	0.00			0.00			0.00
Stationary Source	1.95	38.32	6.79	0.06			0.14			0.14	42.07	968.23	169.60	1.58			4.49			4.49
Total Emissions	3.89	39.12	7.99	0.06			0.45			0.25	52.72	972.60	176.17	1.62			6.19			5.13
BAAQMD CEQA Thresholds	10	10	N/A	N/A			15			10	54	54	N/A	N/A			82			54
Exceeds Thresholds?	NO	YES	N/A	N/A			NO			NO	NO	YES	N/A	N/A			NO			NO

Operational daily emissions based on 365 total weekdays per year.

*PM Totals are inclusive of Fugitive and Exhaust emissions

Mitigation Measure AQ-1 (Option 3)

Construction: Criteria Pollutants

Construction Year	Pollutant (tpy)										Pollutant (lb/day)											
	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*		
Unmitigated																						
2021	1.010	11.124	8.416	0.022	0.668	0.424	1.092	0.240	0.398	0.638	7.772	85.565	64.739	0.172	5.136	3.259	8.396	1.848	3.059	4.908		
2022	6.715	7.230	6.307	0.015	0.307	0.299	0.606	0.083	0.283	0.366	51.655	55.614	48.512	0.115	2.358	2.300	4.658	0.639	2.175	2.814		
2023	6.702	7.747	6.692	0.020	0.790	0.273	1.062	0.274	0.258	0.532	51.552	59.589	51.474	0.155	6.074	2.099	8.172	2.106	1.983	4.090		
2024	4.558	9.269	10.142	0.023	0.294	0.380	0.673	0.080	0.358	0.437	35.062	71.302	78.018	0.174	2.258	2.919	5.178	0.612	2.750	3.362		
2025	4.983	3.183	3.417	0.008	0.169	0.116	0.285	0.046	0.111	0.156	38.332	24.483	26.287	0.062	1.300	0.893	2.193	0.352	0.850	1.202		
2026	4.981	3.175	3.396	0.008	0.169	0.116	0.285	0.046	0.110	0.156	38.315	24.425	26.125	0.062	1.300	0.893	2.193	0.352	0.849	1.202		
2027	1.211	0.503	0.536	0.001	0.027	0.018	0.045	0.007	0.018	0.025	9.317	3.865	4.124	0.010	0.207	0.142	0.348	0.056	0.135	0.191		
Mitigated																						
2021	0.420	6.758	8.799	0.022	0.462	0.247	0.709	0.152	0.245	0.397	3.229	51.981	67.682	0.172	3.551	1.900	5.451	1.169	1.883	3.052		
2022	6.186	3.650	5.845	0.015	0.307	0.169	0.475	0.083	0.168	0.251	47.582	28.077	44.959	0.115	2.358	1.298	3.656	0.639	1.295	1.933		
2023	6.223	4.858	6.342	0.020	0.585	0.188	0.773	0.186	0.188	0.373	47.871	37.370	48.787	0.155	4.501	1.448	5.948	1.428	1.442	2.871		
2024	4.000	6.841	10.399	0.023	0.294	0.349	0.642	0.080	0.346	0.425	30.768	52.620	79.993	0.174	2.258	2.682	4.940	0.612	2.659	3.272		
2025	4.746	1.992	3.048	0.008	0.169	0.105	0.274	0.046	0.105	0.151	36.506	15.325	23.448	0.062	1.300	0.808	2.108	0.352	0.808	1.160		
2026	4.744	1.985	3.027	0.008	0.169	0.105	0.274	0.046	0.105	0.151	36.489	15.266	23.287	0.062	1.300	0.808	2.108	0.352	0.808	1.160		
2027	1.174	0.314	0.478	0.001	0.027	0.017	0.044	0.007	0.017	0.024	9.027	2.415	3.675	0.010	0.207	0.128	0.335	0.056	0.128	0.184		
Maximum Mitigated Emissions	6.22	6.84	10.40	0.02	0.59	0.35	0.77	0.19	0.35	0.43	47.87	52.62	79.99	0.17	4.50	2.68	5.95	1.43	2.66	3.27		
BAAQMD CEQA Thresholds	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54	54	N/A	N/A	N/A	N/A	82	N/A	N/A	54		
Mitigated Exceeds Thresholds?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	NO	N/A	N/A	N/A	N/A	NO	N/A	N/A	NO		

Construction daily emissions based on 260 total weekdays per year.

*PM Totals are inclusive of Fugitive and Exhaust emissions

Operation (2023): Criteria Pollutants

Category	Pollutant (tpy)										Pollutant (lb/day)									
	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*	VOC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total*	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total*
Area	1.83	0.00	0.01	0.00			0.00			0.00	10.05	0.00	0.03	0.00			0.00			0.00
Energy	0.06	0.57	0.48	0.00			0.04			0.04	0.34	3.11	2.61	0.02			0.24			0.24
Mobile	0.05	0.23	0.72	0.00			0.27			0.07	0.26	1.26	3.92	0.02			1.46			0.40
Waste							0.00			0.00	0.00	0.00	0.00	0.00			0.00			0.00
Water							0.00			0.00	0.00	0.00	0.00	0.00			0.00			0.00
Stationary Source	1.95	38.32	6.79	0.06			0.14			0.14	42.07	968.23	169.60	1.58			4.49			4.49
Total Emissions	3.89	39.12	7.99	0.06			0.45			0.25	52.72	972.60	176.17	1.62			6.19			5.13
BAAQMD CEQA Thresholds	10	10	N/A	N/A			15			10	54	54	N/A	N/A			82			54
Exceeds Thresholds?	NO	YES	N/A	N/A			NO			NO	NO	YES	N/A	N/A			NO			NO

Operational daily emissions based on 365 total weekdays per year.

*PM Totals are inclusive of Fugitive and Exhaust emissions

APPENDIX A-4: CALEEMOD OUTPUT FILES

GBGF - Phase 1 Option 1 - Santa Clara County, Annual

GBGF - Phase 1 Option 1
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	220.50	1000sqft	52.47	220,500.00	0
Other Asphalt Surfaces	140.31	1000sqft	3.22	140,312.00	0
Parking Lot	13.55	1000sqft	0.31	13,555.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per construction data provided by client.
- Construction Phase - Per construction data provided by client.
- Off-road Equipment - Per construction data provided by client, including Concrete Vibrator.
- Off-road Equipment - Per construction data provided by the client.
- Off-road Equipment - Per construction data provided by client.
- Off-road Equipment - Per construction data provided by client.
- Off-road Equipment -

GBGF - Phase 1 Option 1 - Santa Clara County, Annual

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment - Per construction data provided by the client, including Concrete Vibrator.

Trips and VMT - Based on import and export volumes and phasing.

Grading -

Vehicle Trips - Assuming 150 employees/vendors per day and accounting for Phase 2 employees in Phase 1 as well. Conservatively assumes equal weekday and weekend trip rates.

GBGF - Phase 1 Option 1 - Santa Clara County, Annual

Construction Off-road Equipment Mitigation - Updated to Tier 3/Tier 4 as a mitigation measure. Additional fugitive dust mitigation measures per BAAQMD CEQA Guidelines.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	54.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	40.00

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tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	105.00
tblConstructionPhase	NumDays	1,110.00	60.00
tblConstructionPhase	NumDays	1,110.00	86.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	75.00	84.00
tblConstructionPhase	NumDays	40.00	11.00
tblGrading	MaterialExported	0.00	53,000.00
tblGrading	MaterialImported	0.00	105,000.00
tblLandUse	LandUseSquareFeet	140,310.00	140,312.00
tblLandUse	LandUseSquareFeet	13,550.00	13,555.00
tblLandUse	LotAcreage	5.06	52.47
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	356.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	9.50
tblVehicleTrips	CW_TTP	59.00	90.50
tblVehicleTrips	ST_TR	1.32	0.68
tblVehicleTrips	WD_TR	6.97	0.68

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	1.0103	11.1235	8.4161	0.0223	0.6677	0.4237	1.0915	0.2403	0.3977	0.6380	0.0000	2,003.9518	2,003.9518	0.3559	0.0000	2,012.8487
2022	6.7152	7.2298	6.3066	0.0150	0.3065	0.2990	0.6055	0.0831	0.2827	0.3658	0.0000	1,313.0012	1,313.0012	0.2098	0.0000	1,318.2454
2023	6.5148	5.1317	5.0145	0.0123	0.2947	0.2056	0.5003	0.0799	0.1957	0.2757	0.0000	1,078.8122	1,078.8122	0.1396	0.0000	1,082.3022
2024	2.5146	1.2883	1.3116	3.2500e-003	0.0785	0.0484	0.1269	0.0213	0.0460	0.0673	0.0000	284.6945	284.6945	0.0366	0.0000	285.6089
Maximum	6.7152	11.1235	8.4161	0.0223	0.6677	0.4237	1.0915	0.2403	0.3977	0.6380	0.0000	2,003.9518	2,003.9518	0.3559	0.0000	2,012.8487

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4521	6.7913	8.6290	0.0223	0.4616	0.2381	0.6997	0.1520	0.2338	0.3858	0.0000	1,967.3046	1,967.3046	0.3512	0.0000	1,976.0843
2022	6.1903	3.6468	5.8142	0.0150	0.3065	0.1670	0.4735	0.0831	0.1662	0.2492	0.0000	1,195.3747	1,195.3747	0.1960	0.0000	1,200.2747
2023	6.1241	2.9455	4.4410	0.0123	0.2947	0.1452	0.4399	0.0799	0.1451	0.2250	0.0000	962.8172	962.8172	0.1271	0.0000	965.9948
2024	2.4195	0.7798	1.1687	3.2500e-003	0.0785	0.0386	0.1171	0.0213	0.0386	0.0599	0.0000	253.8684	253.8684	0.0335	0.0000	254.7046
Maximum	6.1903	6.7913	8.6290	0.0223	0.4616	0.2381	0.6997	0.1520	0.2338	0.3858	0.0000	1,967.3046	1,967.3046	0.3512	0.0000	1,976.0843

	ROG	NOx	CO	SO2	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	9.36	42.83	4.73	0.00	15.30	39.69	25.55	20.80	36.71	31.70	0.00	6.43	6.43	4.60	0.00	6.43

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-19-2021	7-18-2021	4.9310	3.0810
2	7-19-2021	10-18-2021	2.8099	2.1229
3	10-19-2021	1-18-2022	12.4242	9.7528
4	1-19-2022	4-18-2022	54.3138	52.7448
5	4-19-2022	7-18-2022	62.1994	61.3783
6	7-19-2022	10-18-2022	57.3893	56.6437
7	10-19-2022	1-18-2023	33.1895	32.5017
8	1-19-2023	4-18-2023	59.4226	58.7381

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9	4-19-2023	7-18-2023	59.3957	58.7212
10	7-19-2023	10-18-2023	53.3446	52.7311
11	10-19-2023	1-18-2024	31.4738	30.8246
12	1-19-2024	4-18-2024	47.6135	47.1430
		Highest	62.1994	61.3783

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	0.9896	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Energy	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	841.6320	841.6320	0.0300	0.0107	845.5581
Mobile	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200
Waste						0.0000	0.0000		0.0000	0.0000	55.5018	0.0000	55.5018	3.2801	0.0000	137.5033
Water						0.0000	0.0000		0.0000	0.0000	16.1770	80.2655	96.4424	1.6652	0.0400	149.9864
Total	1.0681	0.5157	0.9583	4.4700e-003	0.2637	0.0240	0.2877	0.0706	0.0238	0.0944	71.6788	1,174.3337	1,246.0125	4.9828	0.0506	1,385.6750

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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	0.9252	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Energy	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	841.6320	841.6320	0.0300	0.0107	845.5581
Mobile	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200
Waste						0.0000	0.0000		0.0000	0.0000	55.5018	0.0000	55.5018	3.2801	0.0000	137.5033
Water						0.0000	0.0000		0.0000	0.0000	16.1770	80.2655	96.4424	1.6652	0.0400	149.9864
Total	1.0037	0.5157	0.9583	4.4700e-003	0.2637	0.0240	0.2877	0.0706	0.0238	0.0944	71.6788	1,174.3337	1,246.0125	4.9828	0.0506	1,385.6750

	ROG	NOx	CO	SO2	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	6.03	0.00	0.00	0.00	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	Site and Building #1 - Site Preparation	Site Preparation	4/19/2021	5/3/2021	5	11	
2	Site and Building #1 - Grading	Grading	4/19/2021	5/28/2021	5	30	

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3	Site and Building #1 - Foundation	Building Construction	5/26/2021	10/19/2021	5	105
4	Site and Building #1 - Structural/Building Exterior/Roof	Building Construction	9/29/2021	12/21/2021	5	60
5	Site and Building #1 - ROMP01	Building Construction	11/8/2021	3/7/2022	5	86
6	Site and Building #1 - Paving	Paving	11/10/2021	3/7/2022	5	84
7	Site and Building #1 - ROMP02	Building Construction	2/7/2022	5/16/2022	5	71
8	Site and Building #1 - ROMP01 ArcCoa	Architectural Coating	3/8/2022	3/9/2022	5	2
9	Site and Building #1 - ROMP03	Building Construction	4/18/2022	7/25/2022	5	71
10	Site and Building #1 - ROMP02 ArcCoa	Architectural Coating	5/17/2022	5/18/2022	5	2
11	Site and Building #1 - ROMP04	Building Construction	6/27/2022	10/3/2022	5	71
12	Site and Building #1 - ROMP03 ArcCoa	Architectural Coating	7/26/2022	7/27/2022	5	2
13	Site and Building #1 - ROMP05	Building Construction	9/5/2022	12/12/2022	5	71
14	Site and Building #1 - ROMP04 ArcCoa	Architectural Coating	10/4/2022	10/5/2022	5	2
15	Site and Building #1 - ROMP06	Building Construction	11/14/2022	2/20/2023	5	71
16	Site and Building #1 - ROMP05 ArcCoa	Architectural Coating	12/13/2022	12/14/2022	5	2
17	Site and Building #1 - ROMP07	Building Construction	1/23/2023	5/1/2023	5	71
18	Site and Building #1 - ROMP06 ArcCoa	Architectural Coating	2/21/2023	2/22/2023	5	2
19	Site and Building #1 - ROMP08	Building Construction	4/3/2023	7/10/2023	5	71
20	Site and Building #1 - ROMP07 ArcCoa	Architectural Coating	5/2/2023	5/3/2023	5	2
21	Site and Building #1 - ROMP09	Building Construction	6/12/2023	9/18/2023	5	71
22	Site and Building #1 - ROMP08 ArcCoa	Architectural Coating	7/11/2023	7/12/2023	5	2
23	Site and Building #1 - ROMP10	Building Construction	8/21/2023	11/27/2023	5	71
24	Site and Building #1 - ROMP09 ArcCoa	Architectural Coating	9/19/2023	9/20/2023	5	2
25	Site and Building #1 - ROMP11	Building Construction	10/30/2023	2/5/2024	5	71
26	Site and Building #1 - ROMP10 ArcCoa	Architectural Coating	11/28/2023	11/29/2023	5	2

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27	Site and Building #1 - ROMP12	Building Construction	1/8/2024	4/15/2024	5	71
28	Site and Building #1 - ROMP11 ArcCoa	Architectural Coating	2/6/2024	2/7/2024	5	2
29	Site and Building #1 - ROMP12 ArcCoa	Architectural Coating	4/16/2024	4/17/2024	5	2

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.53

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 330,750; Non-Residential Outdoor: 110,250; Striped Parking Area: 9,232 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site and Building #1 - Site Preparation	Concrete/Industrial Saws	0	8.00	81	0.73
Site and Building #1 - Site Preparation	Excavators	4	8.00	158	0.38
Site and Building #1 - Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site and Building #1 - Site Preparation	Scrapers	4	8.00	367	0.48
Site and Building #1 - Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site and Building #1 - Grading	Excavators	3	8.00	158	0.38
Site and Building #1 - Grading	Graders	3	8.00	187	0.41
Site and Building #1 - Grading	Rollers	3	8.00	80	0.38
Site and Building #1 - Grading	Rubber Tired Dozers	3	8.00	247	0.40
Site and Building #1 - Grading	Scrapers	3	8.00	367	0.48
Site and Building #1 - Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site and Building #1 - Foundation	Bore/Drill Rigs	4	8.00	221	0.50
Site and Building #1 - Foundation	Cement and Mortar Mixers	4	8.00	9	0.56
Site and Building #1 - Foundation	Cranes	0	8.00	231	0.29

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Site and Building #1 - Foundation	Excavators	3	8.00	158	0.38
Site and Building #1 - Foundation	Forklifts	0	8.00	89	0.20
Site and Building #1 - Foundation	Generator Sets	0	8.00	84	0.74
Site and Building #1 - Foundation	Other Construction Equipment	4	8.00	172	0.42
Site and Building #1 - Foundation	Pumps	4	8.00	84	0.74
Site and Building #1 - Foundation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site and Building #1 - Foundation	Welders	0	8.00	46	0.45
Site and Building #1 - Structural/Building Exterior/Roof	Cement and Mortar Mixers	4	8.00	9	0.56
Site and Building #1 - Structural/Building Exterior/Roof	Cranes	2	8.00	231	0.29
Site and Building #1 - Structural/Building Exterior/Roof	Forklifts	6	8.00	89	0.20
Site and Building #1 - Structural/Building Exterior/Roof	Generator Sets	2	8.00	84	0.74
Site and Building #1 - Structural/Building Exterior/Roof	Other Construction Equipment	4	8.00	172	0.42
Site and Building #1 - Structural/Building Exterior/Roof	Pumps	4	8.00	84	0.74
Site and Building #1 - Structural/Building Exterior/Roof	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site and Building #1 - Structural/Building Exterior/Roof	Welders	4	8.00	46	0.45
Site and Building #1 - ROMP01	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP01	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP01	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP01	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP01	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP01	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP01	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP01	Welders	3	8.00	46	0.45
Site and Building #1 - Paving	Excavators	2	8.00	158	0.38
Site and Building #1 - Paving	Graders	2	8.00	187	0.41

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Site and Building #1 - Paving	Pavers	2	8.00	130	0.42
Site and Building #1 - Paving	Paving Equipment	2	8.00	132	0.36
Site and Building #1 - Paving	Plate Compactors	2	8.00	8	0.43
Site and Building #1 - Paving	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - Paving	Rollers	2	8.00	80	0.38
Site and Building #1 - Paving	Rubber Tired Dozers	2	8.00	247	0.40
Site and Building #1 - Paving	Scrapers	2	8.00	367	0.48
Site and Building #1 - Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site and Building #1 - ROMP02		0		0	
Site and Building #1 - ROMP02	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP02	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP02	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP02	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP02	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP02	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP02	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site and Building #1 - ROMP02	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP01 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP03	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP03	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP03	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP03	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP03	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP03	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP03	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP03	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP02 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP04	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP04	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP04	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP04	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP04	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP04	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP04	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP04	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP03 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP05	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP05	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP05	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP05	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP05	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP05	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP05	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP05	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP04 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP06	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP06	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP06	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP06	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP06	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP06	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP06	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP06	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP05 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP07	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP07	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP07	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP07	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP07	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP07	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP07	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP07	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP06 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP08	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP08	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP08	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP08	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP08	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP08	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP08	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP08	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP07 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP09	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP09	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP09	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP09	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP09	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP09	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP09	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP09	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP08 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP10	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP10	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP10	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP10	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP10	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP10	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP10	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP10	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP09 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP11	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP11	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP11	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP11	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP11	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP11	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP11	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP11	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP10 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP12	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP12	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP12	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP12	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP12	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP12	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP12	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP12	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP11 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP12 ArcCoa	Air Compressors	1	6.00	78	0.48
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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
Site and Building #1 - Site Preparation	12	30.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Grading	18	45.00	0.00	13,125.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Foundation	22	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Structural/Building Exts	27	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP01	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Paving	20	50.00	0.00	356.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP02	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP01 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP03	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP02 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP04	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP03 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP05	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP04 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP06	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP05 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP07	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP06 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP08	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP07 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP09	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP08 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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Site and Building #1 - POMP10 ArcCag	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP09 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP11	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP10 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP12	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP11 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP12 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Alternative Fuel for Construction Equipment
- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Site and Building #1 - Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0233	0.0000	0.0233	2.5200e-003	0.0000	2.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0296	0.3245	0.2758	5.2000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	45.2849	45.2849	0.0147	0.0000	45.6511
Total	0.0296	0.3245	0.2758	5.2000e-004	0.0233	0.0139	0.0373	2.5200e-003	0.0128	0.0153	0.0000	45.2849	45.2849	0.0147	0.0000	45.6511

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3.2 Site and Building #1 - Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839
Total	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839

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					0.0105	0.0000	0.0105	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9800e-003	0.0688	0.2739	5.2000e-004		2.9600e-003	2.9600e-003		2.7700e-003	2.7700e-003	0.0000	45.2849	45.2849	0.0147	0.0000	45.6510
Total	9.9800e-003	0.0688	0.2739	5.2000e-004	0.0105	2.9600e-003	0.0135	1.1300e-003	2.7700e-003	3.9000e-003	0.0000	45.2849	45.2849	0.0147	0.0000	45.6510

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3.2 Site and Building #1 - Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839
Total	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839

3.3 Site and Building #1 - Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3515	0.0000	0.3515	0.1580	0.0000	0.1580	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1366	1.5107	0.9100	1.8500e-003		0.0662	0.0662		0.0609	0.0609	0.0000	162.9719	162.9719	0.0527	0.0000	164.2896
Total	0.1366	1.5107	0.9100	1.8500e-003	0.3515	0.0662	0.4177	0.1580	0.0609	0.2189	0.0000	162.9719	162.9719	0.0527	0.0000	164.2896

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3.3 Site and Building #1 - Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0515	1.7550	0.3824	5.1000e-003	0.1113	5.4800e-003	0.1167	0.0306	5.2400e-003	0.0358	0.0000	494.1779	494.1779	0.0224	0.0000	494.7385
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	2.0800e-003	1.4400e-003	0.0154	5.0000e-005	5.3500e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.4317	4.4317	1.0000e-004	0.0000	4.4342
Total	0.0535	1.7565	0.3979	5.1500e-003	0.1166	5.5100e-003	0.1221	0.0320	5.2700e-003	0.0373	0.0000	498.6096	498.6096	0.0225	0.0000	499.1727

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					0.1582	0.0000	0.1582	0.0711	0.0000	0.0711	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2430	0.9559	1.8500e-003		0.0118	0.0118		0.0114	0.0114	0.0000	162.9717	162.9717	0.0527	0.0000	164.2894
Total	0.0317	0.2430	0.9559	1.8500e-003	0.1582	0.0118	0.1700	0.0711	0.0114	0.0825	0.0000	162.9717	162.9717	0.0527	0.0000	164.2894

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3.3 Site and Building #1 - Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0515	1.7550	0.3824	5.1000e-003	0.1113	5.4800e-003	0.1167	0.0306	5.2400e-003	0.0358	0.0000	494.1779	494.1779	0.0224	0.0000	494.7385
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	2.0800e-003	1.4400e-003	0.0154	5.0000e-005	5.3500e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.4317	4.4317	1.0000e-004	0.0000	4.4342
Total	0.0535	1.7565	0.3979	5.1500e-003	0.1166	5.5100e-003	0.1221	0.0320	5.2700e-003	0.0373	0.0000	498.6096	498.6096	0.0225	0.0000	499.1727

3.4 Site and Building #1 - Foundation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3002	2.9440	3.0087	6.1100e-003		0.1417	0.1417		0.1336	0.1336	0.0000	530.5590	530.5590	0.1376	0.0000	533.9981
Total	0.3002	2.9440	3.0087	6.1100e-003		0.1417	0.1417		0.1336	0.1336	0.0000	530.5590	530.5590	0.1376	0.0000	533.9981

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3.4 Site and Building #1 - Foundation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8800e-003	0.3151	0.0840	8.0000e-004	0.0191	6.7000e-004	0.0197	5.5100e-003	6.4000e-004	6.1500e-003	0.0000	76.5664	76.5664	3.4800e-003	0.0000	76.6532
Worker	0.0254	0.0176	0.1886	6.0000e-004	0.0654	4.1000e-004	0.0658	0.0174	3.8000e-004	0.0178	0.0000	54.1155	54.1155	1.2300e-003	0.0000	54.1462
Total	0.0353	0.3327	0.2725	1.4000e-003	0.0844	1.0800e-003	0.0855	0.0229	1.0200e-003	0.0239	0.0000	130.6818	130.6818	4.7100e-003	0.0000	130.7995

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	0.1684	2.3287	3.2263	6.1100e-003		0.1137	0.1137		0.1108	0.1108	0.0000	530.5583	530.5583	0.1376	0.0000	533.9975
Total	0.1684	2.3287	3.2263	6.1100e-003		0.1137	0.1137		0.1108	0.1108	0.0000	530.5583	530.5583	0.1376	0.0000	533.9975

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3.4 Site and Building #1 - Foundation - 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	9.8800e-003	0.3151	0.0840	8.0000e-004	0.0191	6.7000e-004	0.0197	5.5100e-003	6.4000e-004	6.1500e-003	0.0000	76.5664	76.5664	3.4800e-003	0.0000	76.6532
Worker	0.0254	0.0176	0.1886	6.0000e-004	0.0654	4.1000e-004	0.0658	0.0174	3.8000e-004	0.0178	0.0000	54.1155	54.1155	1.2300e-003	0.0000	54.1462
Total	0.0353	0.3327	0.2725	1.4000e-003	0.0844	1.0800e-003	0.0855	0.0229	1.0200e-003	0.0239	0.0000	130.6818	130.6818	4.7100e-003	0.0000	130.7995

3.5 Site and Building #1 - Structural/Building Exterior/Roof - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2145	1.8862	1.7968	3.0300e-003		0.0997	0.0997		0.0951	0.0951	0.0000	257.7543	257.7543	0.0503	0.0000	259.0122
Total	0.2145	1.8862	1.7968	3.0300e-003		0.0997	0.0997		0.0951	0.0951	0.0000	257.7543	257.7543	0.0503	0.0000	259.0122

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3.5 Site and Building #1 - Structural/Building Exterior/Roof - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6500e-003	0.1801	0.0480	4.6000e-004	0.0109	3.8000e-004	0.0113	3.1500e-003	3.6000e-004	3.5100e-003	0.0000	43.7522	43.7522	1.9900e-003	0.0000	43.8019
Worker	0.0145	0.0101	0.1077	3.4000e-004	0.0374	2.4000e-004	0.0376	9.9300e-003	2.2000e-004	0.0102	0.0000	30.9231	30.9231	7.0000e-004	0.0000	30.9407
Total	0.0202	0.1901	0.1557	8.0000e-004	0.0483	6.2000e-004	0.0489	0.0131	5.8000e-004	0.0137	0.0000	74.6753	74.6753	2.6900e-003	0.0000	74.7426

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	0.0613	1.1178	1.7682	3.0300e-003		0.0683	0.0683		0.0683	0.0683	0.0000	235.1675	235.1675	0.0474	0.0000	236.3519
Total	0.0613	1.1178	1.7682	3.0300e-003		0.0683	0.0683		0.0683	0.0683	0.0000	235.1675	235.1675	0.0474	0.0000	236.3519

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3.5 Site and Building #1 - Structural/Building Exterior/Roof - 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	5.6500e-003	0.1801	0.0480	4.6000e-004	0.0109	3.8000e-004	0.0113	3.1500e-003	3.6000e-004	3.5100e-003	0.0000	43.7522	43.7522	1.9900e-003	0.0000	43.8019
Worker	0.0145	0.0101	0.1077	3.4000e-004	0.0374	2.4000e-004	0.0376	9.9300e-003	2.2000e-004	0.0102	0.0000	30.9231	30.9231	7.0000e-004	0.0000	30.9407
Total	0.0202	0.1901	0.1557	8.0000e-004	0.0483	6.2000e-004	0.0489	0.0131	5.8000e-004	0.0137	0.0000	74.6753	74.6753	2.6900e-003	0.0000	74.7426

3.6 Site and Building #1 - ROMP01 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0656	0.5589	0.4720	8.4000e-004		0.0293	0.0293		0.0279	0.0279	0.0000	70.8050	70.8050	0.0142	0.0000	71.1611
Total	0.0656	0.5589	0.4720	8.4000e-004		0.0293	0.0293		0.0279	0.0279	0.0000	70.8050	70.8050	0.0142	0.0000	71.1611

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3.6 Site and Building #1 - ROMP01 - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7700e-003	0.1201	0.0320	3.0000e-004	7.2600e-003	2.5000e-004	7.5100e-003	2.1000e-003	2.4000e-004	2.3400e-003	0.0000	29.1681	29.1681	1.3200e-003	0.0000	29.2012
Worker	9.6700e-003	6.7000e-003	0.0718	2.3000e-004	0.0249	1.6000e-004	0.0251	6.6200e-003	1.4000e-004	6.7700e-003	0.0000	20.6154	20.6154	4.7000e-004	0.0000	20.6271
Total	0.0134	0.1268	0.1038	5.3000e-004	0.0322	4.1000e-004	0.0326	8.7200e-003	3.8000e-004	9.1100e-003	0.0000	49.7835	49.7835	1.7900e-003	0.0000	49.8284

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	0.0124	0.2297	0.3976	8.4000e-004		0.0156	0.0156		0.0156	0.0156	0.0000	58.0933	58.0933	0.0126	0.0000	58.4090
Total	0.0124	0.2297	0.3976	8.4000e-004		0.0156	0.0156		0.0156	0.0156	0.0000	58.0933	58.0933	0.0126	0.0000	58.4090

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3.6 Site and Building #1 - ROMP01 - 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	3.7700e-003	0.1201	0.0320	3.0000e-004	7.2600e-003	2.5000e-004	7.5100e-003	2.1000e-003	2.4000e-004	2.3400e-003	0.0000	29.1681	29.1681	1.3200e-003	0.0000	29.2012
Worker	9.6700e-003	6.7000e-003	0.0718	2.3000e-004	0.0249	1.6000e-004	0.0251	6.6200e-003	1.4000e-004	6.7700e-003	0.0000	20.6154	20.6154	4.7000e-004	0.0000	20.6271
Total	0.0134	0.1268	0.1038	5.3000e-004	0.0322	4.1000e-004	0.0326	8.7200e-003	3.8000e-004	9.1100e-003	0.0000	49.7835	49.7835	1.7900e-003	0.0000	49.8284

3.6 Site and Building #1 - ROMP01 - 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	0.0683	0.5805	0.5345	9.7000e-004		0.0290	0.0290		0.0276	0.0276	0.0000	81.4296	81.4296	0.0162	0.0000	81.8333
Total	0.0683	0.5805	0.5345	9.7000e-004		0.0290	0.0290		0.0276	0.0276	0.0000	81.4296	81.4296	0.0162	0.0000	81.8333

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3.6 Site and Building #1 - ROMP01 - 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	4.0400e-003	0.1307	0.0346	3.5000e-004	8.3500e-003	2.5000e-004	8.6000e-003	2.4100e-003	2.4000e-004	2.6600e-003	0.0000	33.2231	33.2231	1.4500e-003	0.0000	33.2594
Worker	0.0104	6.9100e-003	0.0759	2.5000e-004	0.0286	1.8000e-004	0.0288	7.6200e-003	1.6000e-004	7.7800e-003	0.0000	22.8466	22.8466	4.8000e-004	0.0000	22.8587
Total	0.0144	0.1376	0.1105	6.0000e-004	0.0370	4.3000e-004	0.0374	0.0100	4.0000e-004	0.0104	0.0000	56.0697	56.0697	1.9300e-003	0.0000	56.1181

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	0.0142	0.2642	0.4572	9.7000e-004		0.0180	0.0180		0.0180	0.0180	0.0000	66.8111	66.8111	0.0144	0.0000	67.1719
Total	0.0142	0.2642	0.4572	9.7000e-004		0.0180	0.0180		0.0180	0.0180	0.0000	66.8111	66.8111	0.0144	0.0000	67.1719

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3.6 Site and Building #1 - ROMP01 - 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	4.0400e-003	0.1307	0.0346	3.5000e-004	8.3500e-003	2.5000e-004	8.6000e-003	2.4100e-003	2.4000e-004	2.6600e-003	0.0000	33.2231	33.2231	1.4500e-003	0.0000	33.2594
Worker	0.0104	6.9100e-003	0.0759	2.5000e-004	0.0286	1.8000e-004	0.0288	7.6200e-003	1.6000e-004	7.7800e-003	0.0000	22.8466	22.8466	4.8000e-004	0.0000	22.8587
Total	0.0144	0.1376	0.1105	6.0000e-004	0.0370	4.3000e-004	0.0374	0.0100	4.0000e-004	0.0104	0.0000	56.0697	56.0697	1.9300e-003	0.0000	56.1181

3.7 Site and Building #1 - Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1352	1.4692	0.9926	1.9400e-003		0.0652	0.0652		0.0600	0.0600	0.0000	169.4423	169.4423	0.0542	0.0000	170.7983
Paving	2.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1373	1.4692	0.9926	1.9400e-003		0.0652	0.0652		0.0600	0.0600	0.0000	169.4423	169.4423	0.0542	0.0000	170.7983

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3.7 Site and Building #1 - Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0215	4.6900e-003	6.0000e-005	2.6000e-003	7.0000e-005	2.6700e-003	6.8000e-004	6.0000e-005	7.4000e-004	0.0000	6.0637	6.0637	2.8000e-004	0.0000	6.0706
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	2.9300e-003	2.0300e-003	0.0217	7.0000e-005	7.5300e-003	5.0000e-005	7.5800e-003	2.0000e-003	4.0000e-005	2.0500e-003	0.0000	6.2372	6.2372	1.4000e-004	0.0000	6.2407
Total	3.5600e-003	0.0236	0.0264	1.3000e-004	0.0101	1.2000e-004	0.0103	2.6800e-003	1.0000e-004	2.7900e-003	0.0000	12.3009	12.3009	4.2000e-004	0.0000	12.3113

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	0.0400	0.3734	1.0471	1.9400e-003		0.0181	0.0181		0.0175	0.0175	0.0000	168.0945	168.0945	0.0541	0.0000	169.4472
Paving	2.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0420	0.3734	1.0471	1.9400e-003		0.0181	0.0181		0.0175	0.0175	0.0000	168.0945	168.0945	0.0541	0.0000	169.4472

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3.7 Site and Building #1 - Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0215	4.6900e-003	6.0000e-005	2.6000e-003	7.0000e-005	2.6700e-003	6.8000e-004	6.0000e-005	7.4000e-004	0.0000	6.0637	6.0637	2.8000e-004	0.0000	6.0706
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	2.9300e-003	2.0300e-003	0.0217	7.0000e-005	7.5300e-003	5.0000e-005	7.5800e-003	2.0000e-003	4.0000e-005	2.0500e-003	0.0000	6.2372	6.2372	1.4000e-004	0.0000	6.2407
Total	3.5600e-003	0.0236	0.0264	1.3000e-004	0.0101	1.2000e-004	0.0103	2.6800e-003	1.0000e-004	2.7900e-003	0.0000	12.3009	12.3009	4.2000e-004	0.0000	12.3113

3.7 Site and Building #1 - Paving - 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	0.1414	1.4979	1.1461	2.3500e-003		0.0652	0.0652		0.0600	0.0600	0.0000	205.1998	205.1998	0.0657	0.0000	206.8419
Paving	2.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1439	1.4979	1.1461	2.3500e-003		0.0652	0.0652		0.0600	0.0600	0.0000	205.1998	205.1998	0.0657	0.0000	206.8419

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3.7 Site and Building #1 - Paving - 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	7.2000e-004	0.0239	5.5800e-003	7.0000e-005	2.6800e-003	7.0000e-005	2.7400e-003	7.1000e-004	7.0000e-005	7.7000e-004	0.0000	7.2413	7.2413	3.3000e-004	0.0000	7.2495
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	2.2000e-003	0.0242	8.0000e-005	9.1200e-003	6.0000e-005	9.1800e-003	2.4300e-003	5.0000e-005	2.4800e-003	0.0000	7.2760	7.2760	1.5000e-004	0.0000	7.2798
Total	4.0300e-003	0.0261	0.0298	1.5000e-004	0.0118	1.3000e-004	0.0119	3.1400e-003	1.2000e-004	3.2500e-003	0.0000	14.5173	14.5173	4.8000e-004	0.0000	14.5293

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	0.0465	0.4253	1.2670	2.3500e-003		0.0205	0.0205		0.0199	0.0199	0.0000	203.5683	203.5683	0.0655	0.0000	205.2064
Paving	2.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0490	0.4253	1.2670	2.3500e-003		0.0205	0.0205		0.0199	0.0199	0.0000	203.5683	203.5683	0.0655	0.0000	205.2064

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3.7 Site and Building #1 - Paving - 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	7.2000e-004	0.0239	5.5800e-003	7.0000e-005	2.6800e-003	7.0000e-005	2.7400e-003	7.1000e-004	7.0000e-005	7.7000e-004	0.0000	7.2413	7.2413	3.3000e-004	0.0000	7.2495
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	2.2000e-003	0.0242	8.0000e-005	9.1200e-003	6.0000e-005	9.1800e-003	2.4300e-003	5.0000e-005	2.4800e-003	0.0000	7.2760	7.2760	1.5000e-004	0.0000	7.2798
Total	4.0300e-003	0.0261	0.0298	1.5000e-004	0.0118	1.3000e-004	0.0119	3.1400e-003	1.2000e-004	3.2500e-003	0.0000	14.5173	14.5173	4.8000e-004	0.0000	14.5293

3.8 Site and Building #1 - ROMP02 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.8 Site and Building #1 - ROMP02 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.8 Site and Building #1 - ROMP02 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.9 Site and Building #1 - ROMP01 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.9 Site and Building #1 - ROMP01 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.9 Site and Building #1 - ROMP01 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.10 Site and Building #1 - ROMP03 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.10 Site and Building #1 - ROMP03 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.10 Site and Building #1 - ROMP03 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.11 Site and Building #1 - ROMP02 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.11 Site and Building #1 - ROMP02 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.11 Site and Building #1 - ROMP02 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.12 Site and Building #1 - ROMP04 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.12 Site and Building #1 - ROMP04 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.12 Site and Building #1 - ROMP04 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.13 Site and Building #1 - ROMP03 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.13 Site and Building #1 - ROMP03 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.13 Site and Building #1 - ROMP03 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.14 Site and Building #1 - ROMP05 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.14 Site and Building #1 - ROMP05 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.14 Site and Building #1 - ROMP05 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.15 Site and Building #1 - ROMP04 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.15 Site and Building #1 - ROMP04 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.15 Site and Building #1 - ROMP04 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.16 Site and Building #1 - ROMP06 - 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	0.0520	0.4417	0.4067	7.4000e-004		0.0220	0.0220		0.0210	0.0210	0.0000	61.9573	61.9573	0.0123	0.0000	62.2645
Total	0.0520	0.4417	0.4067	7.4000e-004		0.0220	0.0220		0.0210	0.0210	0.0000	61.9573	61.9573	0.0123	0.0000	62.2645

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3.16 Site and Building #1 - ROMP06 - 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	3.0700e-003	0.0995	0.0263	2.6000e-004	6.3500e-003	1.9000e-004	6.5500e-003	1.8400e-003	1.8000e-004	2.0200e-003	0.0000	25.2784	25.2784	1.1000e-003	0.0000	25.3061
Worker	7.9000e-003	5.2600e-003	0.0578	1.9000e-004	0.0218	1.3000e-004	0.0219	5.8000e-003	1.2000e-004	5.9200e-003	0.0000	17.3833	17.3833	3.7000e-004	0.0000	17.3925
Total	0.0110	0.1047	0.0841	4.5000e-004	0.0281	3.2000e-004	0.0285	7.6400e-003	3.0000e-004	7.9400e-003	0.0000	42.6617	42.6617	1.4700e-003	0.0000	42.6985

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	0.0108	0.2010	0.3479	7.4000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	50.8345	50.8345	0.0110	0.0000	51.1091
Total	0.0108	0.2010	0.3479	7.4000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	50.8345	50.8345	0.0110	0.0000	51.1091

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3.16 Site and Building #1 - ROMP06 - 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	3.0700e-003	0.0995	0.0263	2.6000e-004	6.3500e-003	1.9000e-004	6.5500e-003	1.8400e-003	1.8000e-004	2.0200e-003	0.0000	25.2784	25.2784	1.1000e-003	0.0000	25.3061
Worker	7.9000e-003	5.2600e-003	0.0578	1.9000e-004	0.0218	1.3000e-004	0.0219	5.8000e-003	1.2000e-004	5.9200e-003	0.0000	17.3833	17.3833	3.7000e-004	0.0000	17.3925
Total	0.0110	0.1047	0.0841	4.5000e-004	0.0281	3.2000e-004	0.0285	7.6400e-003	3.0000e-004	7.9400e-003	0.0000	42.6617	42.6617	1.4700e-003	0.0000	42.6985

3.16 Site and Building #1 - ROMP06 - 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	0.0496	0.4224	0.4144	7.6000e-004		0.0200	0.0200		0.0191	0.0191	0.0000	63.7272	63.7272	0.0125	0.0000	64.0386
Total	0.0496	0.4224	0.4144	7.6000e-004		0.0200	0.0200		0.0191	0.0191	0.0000	63.7272	63.7272	0.0125	0.0000	64.0386

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3.16 Site and Building #1 - ROMP06 - 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	2.3900e-003	0.0782	0.0243	2.6000e-004	6.5300e-003	9.0000e-005	6.6200e-003	1.8900e-003	8.0000e-005	1.9700e-003	0.0000	25.2565	25.2565	9.6000e-004	0.0000	25.2806
Worker	7.6100e-003	4.8600e-003	0.0547	1.9000e-004	0.0224	1.4000e-004	0.0226	5.9600e-003	1.2000e-004	6.0900e-003	0.0000	17.2008	17.2008	3.4000e-004	0.0000	17.2092
Total	0.0100	0.0831	0.0790	4.5000e-004	0.0289	2.3000e-004	0.0292	7.8500e-003	2.0000e-004	8.0600e-003	0.0000	42.4573	42.4573	1.3000e-003	0.0000	42.4898

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	0.0111	0.2067	0.3578	7.6000e-004		0.0141	0.0141		0.0141	0.0141	0.0000	52.2866	52.2866	0.0112	0.0000	52.5672
Total	0.0111	0.2067	0.3578	7.6000e-004		0.0141	0.0141		0.0141	0.0141	0.0000	52.2866	52.2866	0.0112	0.0000	52.5672

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3.16 Site and Building #1 - ROMP06 - 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	2.3900e-003	0.0782	0.0243	2.6000e-004	6.5300e-003	9.0000e-005	6.6200e-003	1.8900e-003	8.0000e-005	1.9700e-003	0.0000	25.2565	25.2565	9.6000e-004	0.0000	25.2806
Worker	7.6100e-003	4.8600e-003	0.0547	1.9000e-004	0.0224	1.4000e-004	0.0226	5.9600e-003	1.2000e-004	6.0900e-003	0.0000	17.2008	17.2008	3.4000e-004	0.0000	17.2092
Total	0.0100	0.0831	0.0790	4.5000e-004	0.0289	2.3000e-004	0.0292	7.8500e-003	2.0000e-004	8.0600e-003	0.0000	42.4573	42.4573	1.3000e-003	0.0000	42.4898

3.17 Site and Building #1 - ROMP05 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.17 Site and Building #1 - ROMP05 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.17 Site and Building #1 - ROMP05 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.18 Site and Building #1 - ROMP07 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.18 Site and Building #1 - ROMP07 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.18 Site and Building #1 - ROMP07 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.19 Site and Building #1 - ROMP06 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.19 Site and Building #1 - ROMP06 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.19 Site and Building #1 - ROMP06 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.20 Site and Building #1 - ROMP08 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.20 Site and Building #1 - ROMP08 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.20 Site and Building #1 - ROMP08 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.21 Site and Building #1 - ROMP07 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.21 Site and Building #1 - ROMP07 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.21 Site and Building #1 - ROMP07 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.22 Site and Building #1 - ROMP09 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.22 Site and Building #1 - ROMP09 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.22 Site and Building #1 - ROMP09 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.23 Site and Building #1 - ROMP08 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.23 Site and Building #1 - ROMP08 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.23 Site and Building #1 - ROMP08 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.24 Site and Building #1 - ROMP10 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.24 Site and Building #1 - ROMP10 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.24 Site and Building #1 - ROMP10 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.25 Site and Building #1 - ROMP09 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.25 Site and Building #1 - ROMP09 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.25 Site and Building #1 - ROMP09 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.26 Site and Building #1 - ROMP11 - 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	0.0620	0.5280	0.5180	9.5000e-004		0.0250	0.0250		0.0238	0.0238	0.0000	79.6590	79.6590	0.0156	0.0000	80.0482
Total	0.0620	0.5280	0.5180	9.5000e-004		0.0250	0.0250		0.0238	0.0238	0.0000	79.6590	79.6590	0.0156	0.0000	80.0482

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3.26 Site and Building #1 - ROMP11 - 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	2.9800e-003	0.0978	0.0304	3.3000e-004	8.1700e-003	1.1000e-004	8.2800e-003	2.3600e-003	1.0000e-004	2.4700e-003	0.0000	31.5707	31.5707	1.2000e-003	0.0000	31.6008
Worker	9.5100e-003	6.0800e-003	0.0683	2.4000e-004	0.0280	1.7000e-004	0.0282	7.4500e-003	1.6000e-004	7.6100e-003	0.0000	21.5009	21.5009	4.2000e-004	0.0000	21.5115
Total	0.0125	0.1039	0.0988	5.7000e-004	0.0362	2.8000e-004	0.0365	9.8100e-003	2.6000e-004	0.0101	0.0000	53.0716	53.0716	1.6200e-003	0.0000	53.1123

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	0.0139	0.2584	0.4473	9.5000e-004		0.0176	0.0176		0.0176	0.0176	0.0000	65.3582	65.3582	0.0140	0.0000	65.7090
Total	0.0139	0.2584	0.4473	9.5000e-004		0.0176	0.0176		0.0176	0.0176	0.0000	65.3582	65.3582	0.0140	0.0000	65.7090

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3.26 Site and Building #1 - ROMP11 - 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	2.9800e-003	0.0978	0.0304	3.3000e-004	8.1700e-003	1.1000e-004	8.2800e-003	2.3600e-003	1.0000e-004	2.4700e-003	0.0000	31.5707	31.5707	1.2000e-003	0.0000	31.6008
Worker	9.5100e-003	6.0800e-003	0.0683	2.4000e-004	0.0280	1.7000e-004	0.0282	7.4500e-003	1.6000e-004	7.6100e-003	0.0000	21.5009	21.5009	4.2000e-004	0.0000	21.5115
Total	0.0125	0.1039	0.0988	5.7000e-004	0.0362	2.8000e-004	0.0365	9.8100e-003	2.6000e-004	0.0101	0.0000	53.0716	53.0716	1.6200e-003	0.0000	53.1123

3.26 Site and Building #1 - ROMP11 - 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	0.0335	0.2857	0.2967	5.5000e-004		0.0128	0.0128		0.0122	0.0122	0.0000	46.0249	46.0249	8.8900e-003	0.0000	46.2472
Total	0.0335	0.2857	0.2967	5.5000e-004		0.0128	0.0128		0.0122	0.0122	0.0000	46.0249	46.0249	8.8900e-003	0.0000	46.2472

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3.26 Site and Building #1 - ROMP11 - 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	1.6700e-003	0.0558	0.0170	1.9000e-004	4.7200e-003	6.0000e-005	4.7800e-003	1.3600e-003	6.0000e-005	1.4200e-003	0.0000	18.1161	18.1161	6.8000e-004	0.0000	18.1331
Worker	5.1700e-003	3.1700e-003	0.0366	1.3000e-004	0.0162	1.0000e-004	0.0163	4.3100e-003	9.0000e-005	4.3900e-003	0.0000	11.9348	11.9348	2.2000e-004	0.0000	11.9403
Total	6.8400e-003	0.0590	0.0536	3.2000e-004	0.0209	1.6000e-004	0.0211	5.6700e-003	1.5000e-004	5.8100e-003	0.0000	30.0509	30.0509	9.0000e-004	0.0000	30.0734

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	8.0300e-003	0.1493	0.2584	5.5000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	37.7622	37.7622	8.0600e-003	0.0000	37.9636
Total	8.0300e-003	0.1493	0.2584	5.5000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	37.7622	37.7622	8.0600e-003	0.0000	37.9636

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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	1.6700e-003	0.0558	0.0170	1.9000e-004	4.7200e-003	6.0000e-005	4.7800e-003	1.3600e-003	6.0000e-005	1.4200e-003	0.0000	18.1161	18.1161	6.8000e-004	0.0000	18.1331
Worker	5.1700e-003	3.1700e-003	0.0366	1.3000e-004	0.0162	1.0000e-004	0.0163	4.3100e-003	9.0000e-005	4.3900e-003	0.0000	11.9348	11.9348	2.2000e-004	0.0000	11.9403
Total	6.8400e-003	0.0590	0.0536	3.2000e-004	0.0209	1.6000e-004	0.0211	5.6700e-003	1.5000e-004	5.8100e-003	0.0000	30.0509	30.0509	9.0000e-004	0.0000	30.0734

3.27 Site and Building #1 - ROMP10 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.27 Site and Building #1 - ROMP10 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.27 Site and Building #1 - ROMP10 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.28 Site and Building #1 - ROMP12 - 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	0.0914	0.7801	0.8103	1.5000e-003		0.0349	0.0349		0.0332	0.0332	0.0000	125.6834	125.6834	0.0243	0.0000	126.2905
Total	0.0914	0.7801	0.8103	1.5000e-003		0.0349	0.0349		0.0332	0.0332	0.0000	125.6834	125.6834	0.0243	0.0000	126.2905

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3.28 Site and Building #1 - ROMP12 - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5500e-003	0.1524	0.0463	5.1000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.4709	49.4709	1.8600e-003	0.0000	49.5174
Worker	0.0141	8.6700e-003	0.1000	3.6000e-004	0.0442	2.6000e-004	0.0445	0.0118	2.4000e-004	0.0120	0.0000	32.5912	32.5912	6.0000e-004	0.0000	32.6063
Total	0.0187	0.1610	0.1463	8.7000e-004	0.0571	4.3000e-004	0.0575	0.0155	4.0000e-004	0.0159	0.0000	82.0621	82.0621	2.4600e-003	0.0000	82.1236

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1199	103.1199	0.0220	0.0000	103.6699
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1199	103.1199	0.0220	0.0000	103.6699

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3.28 Site and Building #1 - ROMP12 - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5500e-003	0.1524	0.0463	5.1000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.4709	49.4709	1.8600e-003	0.0000	49.5174
Worker	0.0141	8.6700e-003	0.1000	3.6000e-004	0.0442	2.6000e-004	0.0445	0.0118	2.4000e-004	0.0120	0.0000	32.5912	32.5912	6.0000e-004	0.0000	32.6063
Total	0.0187	0.1610	0.1463	8.7000e-004	0.0571	4.3000e-004	0.0575	0.0155	4.0000e-004	0.0159	0.0000	82.0621	82.0621	2.4600e-003	0.0000	82.1236

3.29 Site and Building #1 - ROMP11 ArcCoa - 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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1820	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.29 Site and Building #1 - ROMP11 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.29 Site and Building #1 - ROMP11 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

3.30 Site and Building #1 - ROMP12 ArcCoa - 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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1820	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.30 Site and Building #1 - ROMP12 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.30 Site and Building #1 - ROMP12 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200
Unmitigated	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	149.94	149.94	149.94	709,144	709,144
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	149.94	149.94	149.94	709,144	709,144

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
General Light Industry	14.70	6.60	6.60	90.50	0.00	9.50	92	5	3
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Other Asphalt Surfaces	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Parking Lot	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740

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	531.2259	531.2259	0.0240	4.9700e-003	533.3074
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	531.2259	531.2259	0.0240	4.9700e-003	533.3074
NaturalGas Mitigated	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507
NaturalGas Unmitigated	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	5.81679e+006	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507
Other Asphalt Surfaces	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
Total		0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	5.81679e+006	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507
Other Asphalt Surfaces	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
Total		0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.82133e+006	529.8458	0.0240	4.9600e-003	531.9219
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4744.25	1.3802	6.0000e-005	1.0000e-005	1.3856
Total		531.2259	0.0240	4.9700e-003	533.3074

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.82133e+006	529.8458	0.0240	4.9600e-003	531.9219
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4744.25	1.3802	6.0000e-005	1.0000e-005	1.3856
Total		531.2259	0.0240	4.9700e-003	533.3074

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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9252	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Unmitigated	0.9896	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003

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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	0.1182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Total	0.9896	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003

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	0.1182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8067					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Total	0.9252	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003

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7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	96.4424	1.6652	0.0400	149.9864
Unmitigated	96.4424	1.6652	0.0400	149.9864

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	50.9906 / 0	96.4424	1.6652	0.0400	149.9864
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		96.4424	1.6652	0.0400	149.9864

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	50.9906 / 0	96.4424	1.6652	0.0400	149.9864
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		96.4424	1.6652	0.0400	149.9864

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	55.5018	3.2801	0.0000	137.5033
Unmitigated	55.5018	3.2801	0.0000	137.5033

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	273.42	55.5018	3.2801	0.0000	137.5033
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		55.5018	3.2801	0.0000	137.5033

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	273.42	55.5018	3.2801	0.0000	137.5033
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		55.5018	3.2801	0.0000	137.5033

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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
----------------	--------

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	220.50	1000sqft	52.47	220,500.00	0
Other Asphalt Surfaces	140.31	1000sqft	3.22	140,312.00	0
Parking Lot	13.55	1000sqft	0.31	13,555.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per construction data provided by client.
- Construction Phase - Per construction data provided by client.
- Off-road Equipment - Per construction data provided by client, including Concrete Vibrator.
- Off-road Equipment - Per construction data provided by the client.
- Off-road Equipment - Per construction data provided by client.
- Off-road Equipment - Per construction data provided by client.
- Off-road Equipment -

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Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment - Per construction data provided by the client, including Concrete Vibrator.

Trips and VMT - Based on import and export volumes and phasing.

Grading -

Vehicle Trips - Assuming 150 employees/vendors per day and accounting for Phase 2 employees in Phase 1 as well. Conservatively assumes equal weekday and weekend trip rates.

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Construction Off-road Equipment Mitigation - Updated to Tier 3/Tier 4 as a mitigation measure. Additional fugitive dust mitigation measures per BAAQMD CEQA Guidelines.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	54.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	40.00

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tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	105.00
tblConstructionPhase	NumDays	1,110.00	60.00
tblConstructionPhase	NumDays	1,110.00	86.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	75.00	84.00
tblConstructionPhase	NumDays	40.00	11.00
tblGrading	MaterialExported	0.00	53,000.00
tblGrading	MaterialImported	0.00	105,000.00
tblLandUse	LandUseSquareFeet	140,310.00	140,312.00
tblLandUse	LandUseSquareFeet	13,550.00	13,555.00
tblLandUse	LotAcreage	5.06	52.47
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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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
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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
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	356.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	9.50
tblVehicleTrips	CW_TTP	59.00	90.50
tblVehicleTrips	ST_TR	1.32	0.68
tblVehicleTrips	WD_TR	6.97	0.68

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	1.0103	11.1235	8.4161	0.0223	0.6677	0.4237	1.0915	0.2403	0.3977	0.6380	0.0000	2,003.9518	2,003.9518	0.3559	0.0000	2,012.8487
2022	6.7152	7.2298	6.3066	0.0150	0.3065	0.2990	0.6055	0.0831	0.2827	0.3658	0.0000	1,313.0012	1,313.0012	0.2098	0.0000	1,318.2454
2023	6.5148	5.1317	5.0145	0.0123	0.2947	0.2056	0.5003	0.0799	0.1957	0.2757	0.0000	1,078.8122	1,078.8122	0.1396	0.0000	1,082.3022
2024	2.5146	1.2883	1.3116	3.2500e-003	0.0785	0.0484	0.1269	0.0213	0.0460	0.0673	0.0000	284.6945	284.6945	0.0366	0.0000	285.6089
Maximum	6.7152	11.1235	8.4161	0.0223	0.6677	0.4237	1.0915	0.2403	0.3977	0.6380	0.0000	2,003.9518	2,003.9518	0.3559	0.0000	2,012.8487

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4336	6.7221	9.0938	0.0223	0.4616	0.2562	0.7178	0.1520	0.2534	0.4054	0.0000	1,967.3046	1,967.3046	0.3512	0.0000	1,976.0843
2022	6.1920	3.7190	5.8142	0.0150	0.3065	0.1724	0.4789	0.0831	0.1715	0.2546	0.0000	1,195.3747	1,195.3747	0.1960	0.0000	1,200.2747
2023	6.1241	2.9455	4.4410	0.0123	0.2947	0.1452	0.4399	0.0799	0.1451	0.2250	0.0000	962.8172	962.8172	0.1271	0.0000	965.9948
2024	2.4195	0.7798	1.1687	3.2500e-003	0.0785	0.0386	0.1171	0.0213	0.0386	0.0599	0.0000	253.8684	253.8684	0.0335	0.0000	254.7046
Maximum	6.1920	6.7221	9.0938	0.0223	0.4616	0.2562	0.7178	0.1520	0.2534	0.4054	0.0000	1,967.3046	1,967.3046	0.3512	0.0000	1,976.0843

	ROG	NOx	CO	SO2	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	9.46	42.82	2.52	0.00	15.30	37.29	24.54	20.80	34.01	29.84	0.00	6.43	6.43	4.60	0.00	6.43

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-19-2021	7-18-2021	4.9310	3.0724
2	7-19-2021	10-18-2021	2.8099	1.9436
3	10-19-2021	1-18-2022	12.4242	9.8679
4	1-19-2022	4-18-2022	54.3138	52.7999
5	4-19-2022	7-18-2022	62.1994	61.3783
6	7-19-2022	10-18-2022	57.3893	56.6437
7	10-19-2022	1-18-2023	33.1895	32.5017
8	1-19-2023	4-18-2023	59.4226	58.7381

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9	4-19-2023	7-18-2023	59.3957	58.7212
10	7-19-2023	10-18-2023	53.3446	52.7311
11	10-19-2023	1-18-2024	31.4738	30.8246
12	1-19-2024	4-18-2024	47.6135	47.1430
		Highest	62.1994	61.3783

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	0.9896	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Energy	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	841.6320	841.6320	0.0300	0.0107	845.5581
Mobile	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200
Waste						0.0000	0.0000		0.0000	0.0000	55.5018	0.0000	55.5018	3.2801	0.0000	137.5033
Water						0.0000	0.0000		0.0000	0.0000	16.1770	80.2655	96.4424	1.6652	0.0400	149.9864
Total	1.0681	0.5157	0.9583	4.4700e-003	0.2637	0.0240	0.2877	0.0706	0.0238	0.0944	71.6788	1,174.3337	1,246.0125	4.9828	0.0506	1,385.6750

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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	0.9252	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Energy	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	841.6320	841.6320	0.0300	0.0107	845.5581
Mobile	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200
Waste						0.0000	0.0000		0.0000	0.0000	55.5018	0.0000	55.5018	3.2801	0.0000	137.5033
Water						0.0000	0.0000		0.0000	0.0000	16.1770	80.2655	96.4424	1.6652	0.0400	149.9864
Total	1.0037	0.5157	0.9583	4.4700e-003	0.2637	0.0240	0.2877	0.0706	0.0238	0.0944	71.6788	1,174.3337	1,246.0125	4.9828	0.0506	1,385.6750

	ROG	NOx	CO	SO2	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	6.03	0.00	0.00	0.00	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	Site and Building #1 - Site Preparation	Site Preparation	4/19/2021	5/3/2021	5	11	
2	Site and Building #1 - Grading	Grading	4/19/2021	5/28/2021	5	30	

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3	Site and Building #1 - Foundation	Building Construction	5/26/2021	10/19/2021	5	105
4	Site and Building #1 - Structural/Building Exterior/Roof	Building Construction	9/29/2021	12/21/2021	5	60
5	Site and Building #1 - ROMP01	Building Construction	11/8/2021	3/7/2022	5	86
6	Site and Building #1 - Paving	Paving	11/10/2021	3/7/2022	5	84
7	Site and Building #1 - ROMP02	Building Construction	2/7/2022	5/16/2022	5	71
8	Site and Building #1 - ROMP01 ArcCoa	Architectural Coating	3/8/2022	3/9/2022	5	2
9	Site and Building #1 - ROMP03	Building Construction	4/18/2022	7/25/2022	5	71
10	Site and Building #1 - ROMP02 ArcCoa	Architectural Coating	5/17/2022	5/18/2022	5	2
11	Site and Building #1 - ROMP04	Building Construction	6/27/2022	10/3/2022	5	71
12	Site and Building #1 - ROMP03 ArcCoa	Architectural Coating	7/26/2022	7/27/2022	5	2
13	Site and Building #1 - ROMP05	Building Construction	9/5/2022	12/12/2022	5	71
14	Site and Building #1 - ROMP04 ArcCoa	Architectural Coating	10/4/2022	10/5/2022	5	2
15	Site and Building #1 - ROMP06	Building Construction	11/14/2022	2/20/2023	5	71
16	Site and Building #1 - ROMP05 ArcCoa	Architectural Coating	12/13/2022	12/14/2022	5	2
17	Site and Building #1 - ROMP07	Building Construction	1/23/2023	5/1/2023	5	71
18	Site and Building #1 - ROMP06 ArcCoa	Architectural Coating	2/21/2023	2/22/2023	5	2
19	Site and Building #1 - ROMP08	Building Construction	4/3/2023	7/10/2023	5	71
20	Site and Building #1 - ROMP07 ArcCoa	Architectural Coating	5/2/2023	5/3/2023	5	2
21	Site and Building #1 - ROMP09	Building Construction	6/12/2023	9/18/2023	5	71
22	Site and Building #1 - ROMP08 ArcCoa	Architectural Coating	7/11/2023	7/12/2023	5	2
23	Site and Building #1 - ROMP10	Building Construction	8/21/2023	11/27/2023	5	71
24	Site and Building #1 - ROMP09 ArcCoa	Architectural Coating	9/19/2023	9/20/2023	5	2
25	Site and Building #1 - ROMP11	Building Construction	10/30/2023	2/5/2024	5	71
26	Site and Building #1 - ROMP10 ArcCoa	Architectural Coating	11/28/2023	11/29/2023	5	2

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27	Site and Building #1 - ROMP12	Building Construction	1/8/2024	4/15/2024	5	71
28	Site and Building #1 - ROMP11 ArcCoa	Architectural Coating	2/6/2024	2/7/2024	5	2
29	Site and Building #1 - ROMP12 ArcCoa	Architectural Coating	4/16/2024	4/17/2024	5	2

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.53

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 330,750; Non-Residential Outdoor: 110,250; Striped Parking Area: 9,232 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site and Building #1 - Site Preparation	Concrete/Industrial Saws	0	8.00	81	0.73
Site and Building #1 - Site Preparation	Excavators	4	8.00	158	0.38
Site and Building #1 - Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site and Building #1 - Site Preparation	Scrapers	4	8.00	367	0.48
Site and Building #1 - Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site and Building #1 - Grading	Excavators	3	8.00	158	0.38
Site and Building #1 - Grading	Graders	3	8.00	187	0.41
Site and Building #1 - Grading	Rollers	3	8.00	80	0.38
Site and Building #1 - Grading	Rubber Tired Dozers	3	8.00	247	0.40
Site and Building #1 - Grading	Scrapers	3	8.00	367	0.48
Site and Building #1 - Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site and Building #1 - Foundation	Bore/Drill Rigs	4	8.00	221	0.50
Site and Building #1 - Foundation	Cement and Mortar Mixers	4	8.00	9	0.56
Site and Building #1 - Foundation	Cranes	0	8.00	231	0.29

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Site and Building #1 - Foundation	Excavators	3	8.00	158	0.38
Site and Building #1 - Foundation	Forklifts	0	8.00	89	0.20
Site and Building #1 - Foundation	Generator Sets	0	8.00	84	0.74
Site and Building #1 - Foundation	Other Construction Equipment	4	8.00	172	0.42
Site and Building #1 - Foundation	Pumps	4	8.00	84	0.74
Site and Building #1 - Foundation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site and Building #1 - Foundation	Welders	0	8.00	46	0.45
Site and Building #1 - Structural/Building Exterior/Roof	Cement and Mortar Mixers	4	8.00	9	0.56
Site and Building #1 - Structural/Building Exterior/Roof	Cranes	2	8.00	231	0.29
Site and Building #1 - Structural/Building Exterior/Roof	Forklifts	6	8.00	89	0.20
Site and Building #1 - Structural/Building Exterior/Roof	Generator Sets	2	8.00	84	0.74
Site and Building #1 - Structural/Building Exterior/Roof	Other Construction Equipment	4	8.00	172	0.42
Site and Building #1 - Structural/Building Exterior/Roof	Pumps	4	8.00	84	0.74
Site and Building #1 - Structural/Building Exterior/Roof	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site and Building #1 - Structural/Building Exterior/Roof	Welders	4	8.00	46	0.45
Site and Building #1 - ROMP01	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP01	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP01	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP01	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP01	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP01	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP01	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP01	Welders	3	8.00	46	0.45
Site and Building #1 - Paving	Excavators	2	8.00	158	0.38
Site and Building #1 - Paving	Graders	2	8.00	187	0.41

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Site and Building #1 - Paving	Pavers	2	8.00	130	0.42
Site and Building #1 - Paving	Paving Equipment	2	8.00	132	0.36
Site and Building #1 - Paving	Plate Compactors	2	8.00	8	0.43
Site and Building #1 - Paving	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - Paving	Rollers	2	8.00	80	0.38
Site and Building #1 - Paving	Rubber Tired Dozers	2	8.00	247	0.40
Site and Building #1 - Paving	Scrapers	2	8.00	367	0.48
Site and Building #1 - Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site and Building #1 - ROMP02		0		0	
Site and Building #1 - ROMP02	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP02	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP02	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP02	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP02	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP02	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP02	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site and Building #1 - ROMP02	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP01 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP03	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP03	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP03	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP03	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP03	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP03	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP03	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP03	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP02 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP04	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP04	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP04	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP04	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP04	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP04	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP04	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP04	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP03 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP05	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP05	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP05	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP05	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP05	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP05	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP05	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP05	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP04 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP06	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP06	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP06	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP06	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP06	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP06	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP06	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP06	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP05 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP07	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP07	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP07	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP07	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP07	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP07	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP07	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP07	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP06 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP08	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP08	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP08	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP08	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP08	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP08	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP08	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP08	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP07 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP09	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP09	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP09	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP09	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP09	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP09	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP09	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP09	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP08 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP10	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP10	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP10	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP10	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP10	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP10	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP10	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP10	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP09 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP11	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP11	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP11	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP11	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP11	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP11	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP11	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP11	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP10 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP12	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP12	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP12	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP12	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP12	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP12	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP12	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP12	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP11 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP12 ArcCoa	Air Compressors	1	6.00	78	0.48
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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
Site and Building #1 - Site Preparation	12	30.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Grading	18	45.00	0.00	13,125.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Foundation	22	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Structural/Building Exts	27	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP01	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Paving	20	50.00	0.00	356.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP02	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP01 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP03	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP02 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP04	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP03 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP05	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP04 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP06	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP05 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP07	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP06 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP08	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP07 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP09	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP08 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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Site and Building #1 - POMP10 ArcCag	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP09 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP11	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP10 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP12	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP11 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP12 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Alternative Fuel for Construction Equipment
- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Site and Building #1 - Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0233	0.0000	0.0233	2.5200e-003	0.0000	2.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0296	0.3245	0.2758	5.2000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	45.2849	45.2849	0.0147	0.0000	45.6511
Total	0.0296	0.3245	0.2758	5.2000e-004	0.0233	0.0139	0.0373	2.5200e-003	0.0128	0.0153	0.0000	45.2849	45.2849	0.0147	0.0000	45.6511

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3.2 Site and Building #1 - Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839
Total	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839

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					0.0105	0.0000	0.0105	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1033	0.2739	5.2000e-004		5.5200e-003	5.5200e-003		5.3300e-003	5.3300e-003	0.0000	45.2849	45.2849	0.0147	0.0000	45.6510
Total	0.0108	0.1033	0.2739	5.2000e-004	0.0105	5.5200e-003	0.0160	1.1300e-003	5.3300e-003	6.4600e-003	0.0000	45.2849	45.2849	0.0147	0.0000	45.6510

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3.2 Site and Building #1 - Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839
Total	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839

3.3 Site and Building #1 - Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3515	0.0000	0.3515	0.1580	0.0000	0.1580	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1366	1.5107	0.9100	1.8500e-003		0.0662	0.0662		0.0609	0.0609	0.0000	162.9719	162.9719	0.0527	0.0000	164.2896
Total	0.1366	1.5107	0.9100	1.8500e-003	0.3515	0.0662	0.4177	0.1580	0.0609	0.2189	0.0000	162.9719	162.9719	0.0527	0.0000	164.2896

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3.3 Site and Building #1 - Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0515	1.7550	0.3824	5.1000e-003	0.1113	5.4800e-003	0.1167	0.0306	5.2400e-003	0.0358	0.0000	494.1779	494.1779	0.0224	0.0000	494.7385
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	2.0800e-003	1.4400e-003	0.0154	5.0000e-005	5.3500e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.4317	4.4317	1.0000e-004	0.0000	4.4342
Total	0.0535	1.7565	0.3979	5.1500e-003	0.1166	5.5100e-003	0.1221	0.0320	5.2700e-003	0.0373	0.0000	498.6096	498.6096	0.0225	0.0000	499.1727

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					0.1582	0.0000	0.1582	0.0711	0.0000	0.0711	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.3136	0.9559	1.8500e-003		0.0170	0.0170		0.0167	0.0167	0.0000	162.9717	162.9717	0.0527	0.0000	164.2894
Total	0.0334	0.3136	0.9559	1.8500e-003	0.1582	0.0170	0.1752	0.0711	0.0167	0.0878	0.0000	162.9717	162.9717	0.0527	0.0000	164.2894

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3.3 Site and Building #1 - Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0515	1.7550	0.3824	5.1000e-003	0.1113	5.4800e-003	0.1167	0.0306	5.2400e-003	0.0358	0.0000	494.1779	494.1779	0.0224	0.0000	494.7385
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	2.0800e-003	1.4400e-003	0.0154	5.0000e-005	5.3500e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.4317	4.4317	1.0000e-004	0.0000	4.4342
Total	0.0535	1.7565	0.3979	5.1500e-003	0.1166	5.5100e-003	0.1221	0.0320	5.2700e-003	0.0373	0.0000	498.6096	498.6096	0.0225	0.0000	499.1727

3.4 Site and Building #1 - Foundation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3002	2.9440	3.0087	6.1100e-003		0.1417	0.1417		0.1336	0.1336	0.0000	530.5590	530.5590	0.1376	0.0000	533.9981
Total	0.3002	2.9440	3.0087	6.1100e-003		0.1417	0.1417		0.1336	0.1336	0.0000	530.5590	530.5590	0.1376	0.0000	533.9981

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3.4 Site and Building #1 - Foundation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8800e-003	0.3151	0.0840	8.0000e-004	0.0191	6.7000e-004	0.0197	5.5100e-003	6.4000e-004	6.1500e-003	0.0000	76.5664	76.5664	3.4800e-003	0.0000	76.6532
Worker	0.0254	0.0176	0.1886	6.0000e-004	0.0654	4.1000e-004	0.0658	0.0174	3.8000e-004	0.0178	0.0000	54.1155	54.1155	1.2300e-003	0.0000	54.1462
Total	0.0353	0.3327	0.2725	1.4000e-003	0.0844	1.0800e-003	0.0855	0.0229	1.0200e-003	0.0239	0.0000	130.6818	130.6818	4.7100e-003	0.0000	130.7995

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	0.1447	2.0476	3.6911	6.1100e-003		0.1160	0.1160		0.1147	0.1147	0.0000	530.5583	530.5583	0.1376	0.0000	533.9975
Total	0.1447	2.0476	3.6911	6.1100e-003		0.1160	0.1160		0.1147	0.1147	0.0000	530.5583	530.5583	0.1376	0.0000	533.9975

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3.4 Site and Building #1 - Foundation - 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	9.8800e-003	0.3151	0.0840	8.0000e-004	0.0191	6.7000e-004	0.0197	5.5100e-003	6.4000e-004	6.1500e-003	0.0000	76.5664	76.5664	3.4800e-003	0.0000	76.6532
Worker	0.0254	0.0176	0.1886	6.0000e-004	0.0654	4.1000e-004	0.0658	0.0174	3.8000e-004	0.0178	0.0000	54.1155	54.1155	1.2300e-003	0.0000	54.1462
Total	0.0353	0.3327	0.2725	1.4000e-003	0.0844	1.0800e-003	0.0855	0.0229	1.0200e-003	0.0239	0.0000	130.6818	130.6818	4.7100e-003	0.0000	130.7995

3.5 Site and Building #1 - Structural/Building Exterior/Roof - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2145	1.8862	1.7968	3.0300e-003		0.0997	0.0997		0.0951	0.0951	0.0000	257.7543	257.7543	0.0503	0.0000	259.0122
Total	0.2145	1.8862	1.7968	3.0300e-003		0.0997	0.0997		0.0951	0.0951	0.0000	257.7543	257.7543	0.0503	0.0000	259.0122

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3.5 Site and Building #1 - Structural/Building Exterior/Roof - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6500e-003	0.1801	0.0480	4.6000e-004	0.0109	3.8000e-004	0.0113	3.1500e-003	3.6000e-004	3.5100e-003	0.0000	43.7522	43.7522	1.9900e-003	0.0000	43.8019
Worker	0.0145	0.0101	0.1077	3.4000e-004	0.0374	2.4000e-004	0.0376	9.9300e-003	2.2000e-004	0.0102	0.0000	30.9231	30.9231	7.0000e-004	0.0000	30.9407
Total	0.0202	0.1901	0.1557	8.0000e-004	0.0483	6.2000e-004	0.0489	0.0131	5.8000e-004	0.0137	0.0000	74.6753	74.6753	2.6900e-003	0.0000	74.7426

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	0.0624	1.1649	1.7682	3.0300e-003		0.0718	0.0718		0.0718	0.0718	0.0000	235.1675	235.1675	0.0474	0.0000	236.3519
Total	0.0624	1.1649	1.7682	3.0300e-003		0.0718	0.0718		0.0718	0.0718	0.0000	235.1675	235.1675	0.0474	0.0000	236.3519

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3.5 Site and Building #1 - Structural/Building Exterior/Roof - 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	5.6500e-003	0.1801	0.0480	4.6000e-004	0.0109	3.8000e-004	0.0113	3.1500e-003	3.6000e-004	3.5100e-003	0.0000	43.7522	43.7522	1.9900e-003	0.0000	43.8019
Worker	0.0145	0.0101	0.1077	3.4000e-004	0.0374	2.4000e-004	0.0376	9.9300e-003	2.2000e-004	0.0102	0.0000	30.9231	30.9231	7.0000e-004	0.0000	30.9407
Total	0.0202	0.1901	0.1557	8.0000e-004	0.0483	6.2000e-004	0.0489	0.0131	5.8000e-004	0.0137	0.0000	74.6753	74.6753	2.6900e-003	0.0000	74.7426

3.6 Site and Building #1 - ROMP01 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0656	0.5589	0.4720	8.4000e-004		0.0293	0.0293		0.0279	0.0279	0.0000	70.8050	70.8050	0.0142	0.0000	71.1611
Total	0.0656	0.5589	0.4720	8.4000e-004		0.0293	0.0293		0.0279	0.0279	0.0000	70.8050	70.8050	0.0142	0.0000	71.1611

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3.6 Site and Building #1 - ROMP01 - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7700e-003	0.1201	0.0320	3.0000e-004	7.2600e-003	2.5000e-004	7.5100e-003	2.1000e-003	2.4000e-004	2.3400e-003	0.0000	29.1681	29.1681	1.3200e-003	0.0000	29.2012
Worker	9.6700e-003	6.7000e-003	0.0718	2.3000e-004	0.0249	1.6000e-004	0.0251	6.6200e-003	1.4000e-004	6.7700e-003	0.0000	20.6154	20.6154	4.7000e-004	0.0000	20.6271
Total	0.0134	0.1268	0.1038	5.3000e-004	0.0322	4.1000e-004	0.0326	8.7200e-003	3.8000e-004	9.1100e-003	0.0000	49.7835	49.7835	1.7900e-003	0.0000	49.8284

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	0.0124	0.2297	0.3976	8.4000e-004		0.0156	0.0156		0.0156	0.0156	0.0000	58.0933	58.0933	0.0126	0.0000	58.4090
Total	0.0124	0.2297	0.3976	8.4000e-004		0.0156	0.0156		0.0156	0.0156	0.0000	58.0933	58.0933	0.0126	0.0000	58.4090

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3.6 Site and Building #1 - ROMP01 - 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	3.7700e-003	0.1201	0.0320	3.0000e-004	7.2600e-003	2.5000e-004	7.5100e-003	2.1000e-003	2.4000e-004	2.3400e-003	0.0000	29.1681	29.1681	1.3200e-003	0.0000	29.2012
Worker	9.6700e-003	6.7000e-003	0.0718	2.3000e-004	0.0249	1.6000e-004	0.0251	6.6200e-003	1.4000e-004	6.7700e-003	0.0000	20.6154	20.6154	4.7000e-004	0.0000	20.6271
Total	0.0134	0.1268	0.1038	5.3000e-004	0.0322	4.1000e-004	0.0326	8.7200e-003	3.8000e-004	9.1100e-003	0.0000	49.7835	49.7835	1.7900e-003	0.0000	49.8284

3.6 Site and Building #1 - ROMP01 - 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	0.0683	0.5805	0.5345	9.7000e-004		0.0290	0.0290		0.0276	0.0276	0.0000	81.4296	81.4296	0.0162	0.0000	81.8333
Total	0.0683	0.5805	0.5345	9.7000e-004		0.0290	0.0290		0.0276	0.0276	0.0000	81.4296	81.4296	0.0162	0.0000	81.8333

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3.6 Site and Building #1 - ROMP01 - 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	4.0400e-003	0.1307	0.0346	3.5000e-004	8.3500e-003	2.5000e-004	8.6000e-003	2.4100e-003	2.4000e-004	2.6600e-003	0.0000	33.2231	33.2231	1.4500e-003	0.0000	33.2594
Worker	0.0104	6.9100e-003	0.0759	2.5000e-004	0.0286	1.8000e-004	0.0288	7.6200e-003	1.6000e-004	7.7800e-003	0.0000	22.8466	22.8466	4.8000e-004	0.0000	22.8587
Total	0.0144	0.1376	0.1105	6.0000e-004	0.0370	4.3000e-004	0.0374	0.0100	4.0000e-004	0.0104	0.0000	56.0697	56.0697	1.9300e-003	0.0000	56.1181

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	0.0142	0.2642	0.4572	9.7000e-004		0.0180	0.0180		0.0180	0.0180	0.0000	66.8111	66.8111	0.0144	0.0000	67.1719
Total	0.0142	0.2642	0.4572	9.7000e-004		0.0180	0.0180		0.0180	0.0180	0.0000	66.8111	66.8111	0.0144	0.0000	67.1719

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3.6 Site and Building #1 - ROMP01 - 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	4.0400e-003	0.1307	0.0346	3.5000e-004	8.3500e-003	2.5000e-004	8.6000e-003	2.4100e-003	2.4000e-004	2.6600e-003	0.0000	33.2231	33.2231	1.4500e-003	0.0000	33.2594
Worker	0.0104	6.9100e-003	0.0759	2.5000e-004	0.0286	1.8000e-004	0.0288	7.6200e-003	1.6000e-004	7.7800e-003	0.0000	22.8466	22.8466	4.8000e-004	0.0000	22.8587
Total	0.0144	0.1376	0.1105	6.0000e-004	0.0370	4.3000e-004	0.0374	0.0100	4.0000e-004	0.0104	0.0000	56.0697	56.0697	1.9300e-003	0.0000	56.1181

3.7 Site and Building #1 - Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1352	1.4692	0.9926	1.9400e-003		0.0652	0.0652		0.0600	0.0600	0.0000	169.4423	169.4423	0.0542	0.0000	170.7983
Paving	2.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1373	1.4692	0.9926	1.9400e-003		0.0652	0.0652		0.0600	0.0600	0.0000	169.4423	169.4423	0.0542	0.0000	170.7983

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3.7 Site and Building #1 - Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0215	4.6900e-003	6.0000e-005	2.6000e-003	7.0000e-005	2.6700e-003	6.8000e-004	6.0000e-005	7.4000e-004	0.0000	6.0637	6.0637	2.8000e-004	0.0000	6.0706
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	2.9300e-003	2.0300e-003	0.0217	7.0000e-005	7.5300e-003	5.0000e-005	7.5800e-003	2.0000e-003	4.0000e-005	2.0500e-003	0.0000	6.2372	6.2372	1.4000e-004	0.0000	6.2407
Total	3.5600e-003	0.0236	0.0264	1.3000e-004	0.0101	1.2000e-004	0.0103	2.6800e-003	1.0000e-004	2.7900e-003	0.0000	12.3009	12.3009	4.2000e-004	0.0000	12.3113

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	0.0414	0.4330	1.0471	1.9400e-003		0.0225	0.0225		0.0219	0.0219	0.0000	168.0945	168.0945	0.0541	0.0000	169.4472
Paving	2.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0435	0.4330	1.0471	1.9400e-003		0.0225	0.0225		0.0219	0.0219	0.0000	168.0945	168.0945	0.0541	0.0000	169.4472

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3.7 Site and Building #1 - Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0215	4.6900e-003	6.0000e-005	2.6000e-003	7.0000e-005	2.6700e-003	6.8000e-004	6.0000e-005	7.4000e-004	0.0000	6.0637	6.0637	2.8000e-004	0.0000	6.0706
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	2.9300e-003	2.0300e-003	0.0217	7.0000e-005	7.5300e-003	5.0000e-005	7.5800e-003	2.0000e-003	4.0000e-005	2.0500e-003	0.0000	6.2372	6.2372	1.4000e-004	0.0000	6.2407
Total	3.5600e-003	0.0236	0.0264	1.3000e-004	0.0101	1.2000e-004	0.0103	2.6800e-003	1.0000e-004	2.7900e-003	0.0000	12.3009	12.3009	4.2000e-004	0.0000	12.3113

3.7 Site and Building #1 - Paving - 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	0.1414	1.4979	1.1461	2.3500e-003		0.0652	0.0652		0.0600	0.0600	0.0000	205.1998	205.1998	0.0657	0.0000	206.8419
Paving	2.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1439	1.4979	1.1461	2.3500e-003		0.0652	0.0652		0.0600	0.0600	0.0000	205.1998	205.1998	0.0657	0.0000	206.8419

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3.7 Site and Building #1 - Paving - 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	7.2000e-004	0.0239	5.5800e-003	7.0000e-005	2.6800e-003	7.0000e-005	2.7400e-003	7.1000e-004	7.0000e-005	7.7000e-004	0.0000	7.2413	7.2413	3.3000e-004	0.0000	7.2495
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	2.2000e-003	0.0242	8.0000e-005	9.1200e-003	6.0000e-005	9.1800e-003	2.4300e-003	5.0000e-005	2.4800e-003	0.0000	7.2760	7.2760	1.5000e-004	0.0000	7.2798
Total	4.0300e-003	0.0261	0.0298	1.5000e-004	0.0118	1.3000e-004	0.0119	3.1400e-003	1.2000e-004	3.2500e-003	0.0000	14.5173	14.5173	4.8000e-004	0.0000	14.5293

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	0.0482	0.4975	1.2670	2.3500e-003		0.0259	0.0259		0.0252	0.0252	0.0000	203.5683	203.5683	0.0655	0.0000	205.2064
Paving	2.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0508	0.4975	1.2670	2.3500e-003		0.0259	0.0259		0.0252	0.0252	0.0000	203.5683	203.5683	0.0655	0.0000	205.2064

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3.7 Site and Building #1 - Paving - 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	7.2000e-004	0.0239	5.5800e-003	7.0000e-005	2.6800e-003	7.0000e-005	2.7400e-003	7.1000e-004	7.0000e-005	7.7000e-004	0.0000	7.2413	7.2413	3.3000e-004	0.0000	7.2495
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	2.2000e-003	0.0242	8.0000e-005	9.1200e-003	6.0000e-005	9.1800e-003	2.4300e-003	5.0000e-005	2.4800e-003	0.0000	7.2760	7.2760	1.5000e-004	0.0000	7.2798
Total	4.0300e-003	0.0261	0.0298	1.5000e-004	0.0118	1.3000e-004	0.0119	3.1400e-003	1.2000e-004	3.2500e-003	0.0000	14.5173	14.5173	4.8000e-004	0.0000	14.5293

3.8 Site and Building #1 - ROMP02 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.8 Site and Building #1 - ROMP02 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.8 Site and Building #1 - ROMP02 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.9 Site and Building #1 - ROMP01 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.9 Site and Building #1 - ROMP01 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.9 Site and Building #1 - ROMP01 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.10 Site and Building #1 - ROMP03 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.10 Site and Building #1 - ROMP03 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.10 Site and Building #1 - ROMP03 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.11 Site and Building #1 - ROMP02 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.11 Site and Building #1 - ROMP02 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.11 Site and Building #1 - ROMP02 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.12 Site and Building #1 - ROMP04 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.12 Site and Building #1 - ROMP04 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.12 Site and Building #1 - ROMP04 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.13 Site and Building #1 - ROMP03 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.13 Site and Building #1 - ROMP03 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.13 Site and Building #1 - ROMP03 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.14 Site and Building #1 - ROMP05 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.14 Site and Building #1 - ROMP05 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.14 Site and Building #1 - ROMP05 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.15 Site and Building #1 - ROMP04 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.15 Site and Building #1 - ROMP04 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.15 Site and Building #1 - ROMP04 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.16 Site and Building #1 - ROMP06 - 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	0.0520	0.4417	0.4067	7.4000e-004		0.0220	0.0220		0.0210	0.0210	0.0000	61.9573	61.9573	0.0123	0.0000	62.2645
Total	0.0520	0.4417	0.4067	7.4000e-004		0.0220	0.0220		0.0210	0.0210	0.0000	61.9573	61.9573	0.0123	0.0000	62.2645

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3.16 Site and Building #1 - ROMP06 - 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	3.0700e-003	0.0995	0.0263	2.6000e-004	6.3500e-003	1.9000e-004	6.5500e-003	1.8400e-003	1.8000e-004	2.0200e-003	0.0000	25.2784	25.2784	1.1000e-003	0.0000	25.3061
Worker	7.9000e-003	5.2600e-003	0.0578	1.9000e-004	0.0218	1.3000e-004	0.0219	5.8000e-003	1.2000e-004	5.9200e-003	0.0000	17.3833	17.3833	3.7000e-004	0.0000	17.3925
Total	0.0110	0.1047	0.0841	4.5000e-004	0.0281	3.2000e-004	0.0285	7.6400e-003	3.0000e-004	7.9400e-003	0.0000	42.6617	42.6617	1.4700e-003	0.0000	42.6985

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	0.0108	0.2010	0.3479	7.4000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	50.8345	50.8345	0.0110	0.0000	51.1091
Total	0.0108	0.2010	0.3479	7.4000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	50.8345	50.8345	0.0110	0.0000	51.1091

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3.16 Site and Building #1 - ROMP06 - 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	3.0700e-003	0.0995	0.0263	2.6000e-004	6.3500e-003	1.9000e-004	6.5500e-003	1.8400e-003	1.8000e-004	2.0200e-003	0.0000	25.2784	25.2784	1.1000e-003	0.0000	25.3061
Worker	7.9000e-003	5.2600e-003	0.0578	1.9000e-004	0.0218	1.3000e-004	0.0219	5.8000e-003	1.2000e-004	5.9200e-003	0.0000	17.3833	17.3833	3.7000e-004	0.0000	17.3925
Total	0.0110	0.1047	0.0841	4.5000e-004	0.0281	3.2000e-004	0.0285	7.6400e-003	3.0000e-004	7.9400e-003	0.0000	42.6617	42.6617	1.4700e-003	0.0000	42.6985

3.16 Site and Building #1 - ROMP06 - 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	0.0496	0.4224	0.4144	7.6000e-004		0.0200	0.0200		0.0191	0.0191	0.0000	63.7272	63.7272	0.0125	0.0000	64.0386
Total	0.0496	0.4224	0.4144	7.6000e-004		0.0200	0.0200		0.0191	0.0191	0.0000	63.7272	63.7272	0.0125	0.0000	64.0386

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3.16 Site and Building #1 - ROMP06 - 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	2.3900e-003	0.0782	0.0243	2.6000e-004	6.5300e-003	9.0000e-005	6.6200e-003	1.8900e-003	8.0000e-005	1.9700e-003	0.0000	25.2565	25.2565	9.6000e-004	0.0000	25.2806
Worker	7.6100e-003	4.8600e-003	0.0547	1.9000e-004	0.0224	1.4000e-004	0.0226	5.9600e-003	1.2000e-004	6.0900e-003	0.0000	17.2008	17.2008	3.4000e-004	0.0000	17.2092
Total	0.0100	0.0831	0.0790	4.5000e-004	0.0289	2.3000e-004	0.0292	7.8500e-003	2.0000e-004	8.0600e-003	0.0000	42.4573	42.4573	1.3000e-003	0.0000	42.4898

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	0.0111	0.2067	0.3578	7.6000e-004		0.0141	0.0141		0.0141	0.0141	0.0000	52.2866	52.2866	0.0112	0.0000	52.5672
Total	0.0111	0.2067	0.3578	7.6000e-004		0.0141	0.0141		0.0141	0.0141	0.0000	52.2866	52.2866	0.0112	0.0000	52.5672

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3.16 Site and Building #1 - ROMP06 - 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	2.3900e-003	0.0782	0.0243	2.6000e-004	6.5300e-003	9.0000e-005	6.6200e-003	1.8900e-003	8.0000e-005	1.9700e-003	0.0000	25.2565	25.2565	9.6000e-004	0.0000	25.2806
Worker	7.6100e-003	4.8600e-003	0.0547	1.9000e-004	0.0224	1.4000e-004	0.0226	5.9600e-003	1.2000e-004	6.0900e-003	0.0000	17.2008	17.2008	3.4000e-004	0.0000	17.2092
Total	0.0100	0.0831	0.0790	4.5000e-004	0.0289	2.3000e-004	0.0292	7.8500e-003	2.0000e-004	8.0600e-003	0.0000	42.4573	42.4573	1.3000e-003	0.0000	42.4898

3.17 Site and Building #1 - ROMP05 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.17 Site and Building #1 - ROMP05 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.17 Site and Building #1 - ROMP05 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.18 Site and Building #1 - ROMP07 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.18 Site and Building #1 - ROMP07 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.18 Site and Building #1 - ROMP07 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.19 Site and Building #1 - ROMP06 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.19 Site and Building #1 - ROMP06 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.19 Site and Building #1 - ROMP06 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.20 Site and Building #1 - ROMP08 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.20 Site and Building #1 - ROMP08 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.20 Site and Building #1 - ROMP08 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.21 Site and Building #1 - ROMP07 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.21 Site and Building #1 - ROMP07 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.21 Site and Building #1 - ROMP07 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.22 Site and Building #1 - ROMP09 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.22 Site and Building #1 - ROMP09 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.22 Site and Building #1 - ROMP09 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.23 Site and Building #1 - ROMP08 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.23 Site and Building #1 - ROMP08 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.23 Site and Building #1 - ROMP08 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.24 Site and Building #1 - ROMP10 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.24 Site and Building #1 - ROMP10 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.24 Site and Building #1 - ROMP10 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.25 Site and Building #1 - ROMP09 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.25 Site and Building #1 - ROMP09 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.25 Site and Building #1 - ROMP09 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.26 Site and Building #1 - ROMP11 - 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	0.0620	0.5280	0.5180	9.5000e-004		0.0250	0.0250		0.0238	0.0238	0.0000	79.6590	79.6590	0.0156	0.0000	80.0482
Total	0.0620	0.5280	0.5180	9.5000e-004		0.0250	0.0250		0.0238	0.0238	0.0000	79.6590	79.6590	0.0156	0.0000	80.0482

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3.26 Site and Building #1 - ROMP11 - 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	2.9800e-003	0.0978	0.0304	3.3000e-004	8.1700e-003	1.1000e-004	8.2800e-003	2.3600e-003	1.0000e-004	2.4700e-003	0.0000	31.5707	31.5707	1.2000e-003	0.0000	31.6008
Worker	9.5100e-003	6.0800e-003	0.0683	2.4000e-004	0.0280	1.7000e-004	0.0282	7.4500e-003	1.6000e-004	7.6100e-003	0.0000	21.5009	21.5009	4.2000e-004	0.0000	21.5115
Total	0.0125	0.1039	0.0988	5.7000e-004	0.0362	2.8000e-004	0.0365	9.8100e-003	2.6000e-004	0.0101	0.0000	53.0716	53.0716	1.6200e-003	0.0000	53.1123

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	0.0139	0.2584	0.4473	9.5000e-004		0.0176	0.0176		0.0176	0.0176	0.0000	65.3582	65.3582	0.0140	0.0000	65.7090
Total	0.0139	0.2584	0.4473	9.5000e-004		0.0176	0.0176		0.0176	0.0176	0.0000	65.3582	65.3582	0.0140	0.0000	65.7090

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3.26 Site and Building #1 - ROMP11 - 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	2.9800e-003	0.0978	0.0304	3.3000e-004	8.1700e-003	1.1000e-004	8.2800e-003	2.3600e-003	1.0000e-004	2.4700e-003	0.0000	31.5707	31.5707	1.2000e-003	0.0000	31.6008
Worker	9.5100e-003	6.0800e-003	0.0683	2.4000e-004	0.0280	1.7000e-004	0.0282	7.4500e-003	1.6000e-004	7.6100e-003	0.0000	21.5009	21.5009	4.2000e-004	0.0000	21.5115
Total	0.0125	0.1039	0.0988	5.7000e-004	0.0362	2.8000e-004	0.0365	9.8100e-003	2.6000e-004	0.0101	0.0000	53.0716	53.0716	1.6200e-003	0.0000	53.1123

3.26 Site and Building #1 - ROMP11 - 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	0.0335	0.2857	0.2967	5.5000e-004		0.0128	0.0128		0.0122	0.0122	0.0000	46.0249	46.0249	8.8900e-003	0.0000	46.2472
Total	0.0335	0.2857	0.2967	5.5000e-004		0.0128	0.0128		0.0122	0.0122	0.0000	46.0249	46.0249	8.8900e-003	0.0000	46.2472

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3.26 Site and Building #1 - ROMP11 - 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	1.6700e-003	0.0558	0.0170	1.9000e-004	4.7200e-003	6.0000e-005	4.7800e-003	1.3600e-003	6.0000e-005	1.4200e-003	0.0000	18.1161	18.1161	6.8000e-004	0.0000	18.1331
Worker	5.1700e-003	3.1700e-003	0.0366	1.3000e-004	0.0162	1.0000e-004	0.0163	4.3100e-003	9.0000e-005	4.3900e-003	0.0000	11.9348	11.9348	2.2000e-004	0.0000	11.9403
Total	6.8400e-003	0.0590	0.0536	3.2000e-004	0.0209	1.6000e-004	0.0211	5.6700e-003	1.5000e-004	5.8100e-003	0.0000	30.0509	30.0509	9.0000e-004	0.0000	30.0734

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	8.0300e-003	0.1493	0.2584	5.5000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	37.7622	37.7622	8.0600e-003	0.0000	37.9636
Total	8.0300e-003	0.1493	0.2584	5.5000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	37.7622	37.7622	8.0600e-003	0.0000	37.9636

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3.26 Site and Building #1 - ROMP11 - 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	1.6700e-003	0.0558	0.0170	1.9000e-004	4.7200e-003	6.0000e-005	4.7800e-003	1.3600e-003	6.0000e-005	1.4200e-003	0.0000	18.1161	18.1161	6.8000e-004	0.0000	18.1331
Worker	5.1700e-003	3.1700e-003	0.0366	1.3000e-004	0.0162	1.0000e-004	0.0163	4.3100e-003	9.0000e-005	4.3900e-003	0.0000	11.9348	11.9348	2.2000e-004	0.0000	11.9403
Total	6.8400e-003	0.0590	0.0536	3.2000e-004	0.0209	1.6000e-004	0.0211	5.6700e-003	1.5000e-004	5.8100e-003	0.0000	30.0509	30.0509	9.0000e-004	0.0000	30.0734

3.27 Site and Building #1 - ROMP10 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.27 Site and Building #1 - ROMP10 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.27 Site and Building #1 - ROMP10 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.28 Site and Building #1 - ROMP12 - 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	0.0914	0.7801	0.8103	1.5000e-003		0.0349	0.0349		0.0332	0.0332	0.0000	125.6834	125.6834	0.0243	0.0000	126.2905
Total	0.0914	0.7801	0.8103	1.5000e-003		0.0349	0.0349		0.0332	0.0332	0.0000	125.6834	125.6834	0.0243	0.0000	126.2905

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3.28 Site and Building #1 - ROMP12 - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5500e-003	0.1524	0.0463	5.1000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.4709	49.4709	1.8600e-003	0.0000	49.5174
Worker	0.0141	8.6700e-003	0.1000	3.6000e-004	0.0442	2.6000e-004	0.0445	0.0118	2.4000e-004	0.0120	0.0000	32.5912	32.5912	6.0000e-004	0.0000	32.6063
Total	0.0187	0.1610	0.1463	8.7000e-004	0.0571	4.3000e-004	0.0575	0.0155	4.0000e-004	0.0159	0.0000	82.0621	82.0621	2.4600e-003	0.0000	82.1236

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1199	103.1199	0.0220	0.0000	103.6699
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1199	103.1199	0.0220	0.0000	103.6699

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3.28 Site and Building #1 - ROMP12 - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5500e-003	0.1524	0.0463	5.1000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.4709	49.4709	1.8600e-003	0.0000	49.5174
Worker	0.0141	8.6700e-003	0.1000	3.6000e-004	0.0442	2.6000e-004	0.0445	0.0118	2.4000e-004	0.0120	0.0000	32.5912	32.5912	6.0000e-004	0.0000	32.6063
Total	0.0187	0.1610	0.1463	8.7000e-004	0.0571	4.3000e-004	0.0575	0.0155	4.0000e-004	0.0159	0.0000	82.0621	82.0621	2.4600e-003	0.0000	82.1236

3.29 Site and Building #1 - ROMP11 ArcCoa - 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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1820	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.29 Site and Building #1 - ROMP11 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.29 Site and Building #1 - ROMP11 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

3.30 Site and Building #1 - ROMP12 ArcCoa - 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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1820	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.30 Site and Building #1 - ROMP12 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.30 Site and Building #1 - ROMP12 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200
Unmitigated	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	149.94	149.94	149.94	709,144	709,144
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	149.94	149.94	149.94	709,144	709,144

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
General Light Industry	14.70	6.60	6.60	90.50	0.00	9.50	92	5	3
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Other Asphalt Surfaces	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Parking Lot	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740

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	531.2259	531.2259	0.0240	4.9700e-003	533.3074
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	531.2259	531.2259	0.0240	4.9700e-003	533.3074
NaturalGas Mitigated	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507
NaturalGas Unmitigated	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	5.81679e+006	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507
Other Asphalt Surfaces	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
Total		0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	5.81679e+006	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507
Other Asphalt Surfaces	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
Total		0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.82133e+006	529.8458	0.0240	4.9600e-003	531.9219
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4744.25	1.3802	6.0000e-005	1.0000e-005	1.3856
Total		531.2259	0.0240	4.9700e-003	533.3074

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.82133e+006	529.8458	0.0240	4.9600e-003	531.9219
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4744.25	1.3802	6.0000e-005	1.0000e-005	1.3856
Total		531.2259	0.0240	4.9700e-003	533.3074

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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9252	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Unmitigated	0.9896	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003

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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	0.1182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Total	0.9896	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003

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	0.1182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8067					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Total	0.9252	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003

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7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	96.4424	1.6652	0.0400	149.9864
Unmitigated	96.4424	1.6652	0.0400	149.9864

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	50.9906 / 0	96.4424	1.6652	0.0400	149.9864
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		96.4424	1.6652	0.0400	149.9864

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	50.9906 / 0	96.4424	1.6652	0.0400	149.9864
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		96.4424	1.6652	0.0400	149.9864

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	55.5018	3.2801	0.0000	137.5033
Unmitigated	55.5018	3.2801	0.0000	137.5033

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	273.42	55.5018	3.2801	0.0000	137.5033
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		55.5018	3.2801	0.0000	137.5033

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	273.42	55.5018	3.2801	0.0000	137.5033
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		55.5018	3.2801	0.0000	137.5033

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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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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	220.50	1000sqft	52.47	220,500.00	0
Other Asphalt Surfaces	140.31	1000sqft	3.22	140,312.00	0
Parking Lot	13.55	1000sqft	0.31	13,555.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per construction data provided by client.

Construction Phase - Per construction data provided by client.

Off-road Equipment - Per construction data provided by client, including Concrete Vibrator.

Off-road Equipment - Per construction data provided by the client.

Off-road Equipment - Per construction data provided by client.

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

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Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

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Off-road Equipment - Per construction data provided by client.

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Off-road Equipment - Per construction data provided by client.

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Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by client.

Off-road Equipment - Per construction data provided by the client, including Concrete Vibrator.

Trips and VMT - Based on import and export volumes and phasing.

Grading -

Vehicle Trips - Assuming 150 employees/vendors per day and accounting for Phase 2 employees in Phase 1 as well. Conservatively assumes equal weekday and weekend trip rates.

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Construction Off-road Equipment Mitigation - Updated to Tier 3/Tier 4 as a mitigation measure. Additional fugitive dust mitigation measures per BAAQMD CEQA Guidelines.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	54.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	40.00

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tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	105.00
tblConstructionPhase	NumDays	1,110.00	60.00
tblConstructionPhase	NumDays	1,110.00	86.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	1,110.00	71.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	75.00	84.00
tblConstructionPhase	NumDays	40.00	11.00
tblGrading	MaterialExported	0.00	53,000.00
tblGrading	MaterialImported	0.00	105,000.00
tblLandUse	LandUseSquareFeet	140,310.00	140,312.00
tblLandUse	LandUseSquareFeet	13,550.00	13,555.00
tblLandUse	LotAcreage	5.06	52.47
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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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
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
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	356.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	9.50
tblVehicleTrips	CW_TTP	59.00	90.50
tblVehicleTrips	ST_TR	1.32	0.68
tblVehicleTrips	WD_TR	6.97	0.68

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	1.0103	11.1235	8.4161	0.0223	0.6677	0.4237	1.0915	0.2403	0.3977	0.6380	0.0000	2,003.9518	2,003.9518	0.3559	0.0000	2,012.8487
2022	6.7152	7.2298	6.3066	0.0150	0.3065	0.2990	0.6055	0.0831	0.2827	0.3658	0.0000	1,313.0012	1,313.0012	0.2098	0.0000	1,318.2454
2023	6.5148	5.1317	5.0145	0.0123	0.2947	0.2056	0.5003	0.0799	0.1957	0.2757	0.0000	1,078.8122	1,078.8122	0.1396	0.0000	1,082.3022
2024	2.5146	1.2883	1.3116	3.2500e-003	0.0785	0.0484	0.1269	0.0213	0.0460	0.0673	0.0000	284.6945	284.6945	0.0366	0.0000	285.6089
Maximum	6.7152	11.1235	8.4161	0.0223	0.6677	0.4237	1.0915	0.2403	0.3977	0.6380	0.0000	2,003.9518	2,003.9518	0.3559	0.0000	2,012.8487

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4198	6.7575	8.7986	0.0223	0.4616	0.2470	0.7086	0.1520	0.2448	0.3968	0.0000	1,967.3046	1,967.3046	0.3512	0.0000	1,976.0843
2022	6.1857	3.6500	5.8447	0.0150	0.3065	0.1688	0.4753	0.0831	0.1683	0.2513	0.0000	1,195.3747	1,195.3747	0.1960	0.0000	1,200.2747
2023	6.1241	2.9455	4.4410	0.0123	0.2947	0.1452	0.4399	0.0799	0.1451	0.2250	0.0000	962.8172	962.8172	0.1271	0.0000	965.9948
2024	2.4195	0.7798	1.1687	3.2500e-003	0.0785	0.0386	0.1171	0.0213	0.0386	0.0599	0.0000	253.8684	253.8684	0.0335	0.0000	254.7046
Maximum	6.1857	6.7575	8.7986	0.0223	0.4616	0.2470	0.7086	0.1520	0.2448	0.3968	0.0000	1,967.3046	1,967.3046	0.3512	0.0000	1,976.0843

	ROG	NOx	CO	SO2	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	9.58	42.95	3.78	0.00	15.30	38.60	25.09	20.80	35.29	30.72	0.00	6.43	6.43	4.60	0.00	6.43

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-19-2021	7-18-2021	4.9310	3.0277
2	7-19-2021	10-18-2021	2.8099	2.0914
3	10-19-2021	1-18-2022	12.4242	9.7725
4	1-19-2022	4-18-2022	54.3138	52.7437
5	4-19-2022	7-18-2022	62.1994	61.3783
6	7-19-2022	10-18-2022	57.3893	56.6437
7	10-19-2022	1-18-2023	33.1895	32.5017
8	1-19-2023	4-18-2023	59.4226	58.7381

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9	4-19-2023	7-18-2023	59.3957	58.7212
10	7-19-2023	10-18-2023	53.3446	52.7311
11	10-19-2023	1-18-2024	31.4738	30.8246
12	1-19-2024	4-18-2024	47.6135	47.1430
		Highest	62.1994	61.3783

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	0.9896	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Energy	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	841.6320	841.6320	0.0300	0.0107	845.5581
Mobile	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200
Waste						0.0000	0.0000		0.0000	0.0000	55.5018	0.0000	55.5018	3.2801	0.0000	137.5033
Water						0.0000	0.0000		0.0000	0.0000	16.1770	80.2655	96.4424	1.6652	0.0400	149.9864
Total	1.0681	0.5157	0.9583	4.4700e-003	0.2637	0.0240	0.2877	0.0706	0.0238	0.0944	71.6788	1,174.3337	1,246.0125	4.9828	0.0506	1,385.6750

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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	0.9252	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Energy	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	841.6320	841.6320	0.0300	0.0107	845.5581
Mobile	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200
Waste						0.0000	0.0000		0.0000	0.0000	55.5018	0.0000	55.5018	3.2801	0.0000	137.5033
Water						0.0000	0.0000		0.0000	0.0000	16.1770	80.2655	96.4424	1.6652	0.0400	149.9864
Total	1.0037	0.5157	0.9583	4.4700e-003	0.2637	0.0240	0.2877	0.0706	0.0238	0.0944	71.6788	1,174.3337	1,246.0125	4.9828	0.0506	1,385.6750

	ROG	NOx	CO	SO2	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	6.03	0.00	0.00	0.00	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	Site and Building #1 - Site Preparation	Site Preparation	4/19/2021	5/3/2021	5	11	
2	Site and Building #1 - Grading	Grading	4/19/2021	5/28/2021	5	30	

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3	Site and Building #1 - Foundation	Building Construction	5/26/2021	10/19/2021	5	105
4	Site and Building #1 - Structural/Building Exterior/Roof	Building Construction	9/29/2021	12/21/2021	5	60
5	Site and Building #1 - ROMP01	Building Construction	11/8/2021	3/7/2022	5	86
6	Site and Building #1 - Paving	Paving	11/10/2021	3/7/2022	5	84
7	Site and Building #1 - ROMP02	Building Construction	2/7/2022	5/16/2022	5	71
8	Site and Building #1 - ROMP01 ArcCoa	Architectural Coating	3/8/2022	3/9/2022	5	2
9	Site and Building #1 - ROMP03	Building Construction	4/18/2022	7/25/2022	5	71
10	Site and Building #1 - ROMP02 ArcCoa	Architectural Coating	5/17/2022	5/18/2022	5	2
11	Site and Building #1 - ROMP04	Building Construction	6/27/2022	10/3/2022	5	71
12	Site and Building #1 - ROMP03 ArcCoa	Architectural Coating	7/26/2022	7/27/2022	5	2
13	Site and Building #1 - ROMP05	Building Construction	9/5/2022	12/12/2022	5	71
14	Site and Building #1 - ROMP04 ArcCoa	Architectural Coating	10/4/2022	10/5/2022	5	2
15	Site and Building #1 - ROMP06	Building Construction	11/14/2022	2/20/2023	5	71
16	Site and Building #1 - ROMP05 ArcCoa	Architectural Coating	12/13/2022	12/14/2022	5	2
17	Site and Building #1 - ROMP07	Building Construction	1/23/2023	5/1/2023	5	71
18	Site and Building #1 - ROMP06 ArcCoa	Architectural Coating	2/21/2023	2/22/2023	5	2
19	Site and Building #1 - ROMP08	Building Construction	4/3/2023	7/10/2023	5	71
20	Site and Building #1 - ROMP07 ArcCoa	Architectural Coating	5/2/2023	5/3/2023	5	2
21	Site and Building #1 - ROMP09	Building Construction	6/12/2023	9/18/2023	5	71
22	Site and Building #1 - ROMP08 ArcCoa	Architectural Coating	7/11/2023	7/12/2023	5	2
23	Site and Building #1 - ROMP10	Building Construction	8/21/2023	11/27/2023	5	71
24	Site and Building #1 - ROMP09 ArcCoa	Architectural Coating	9/19/2023	9/20/2023	5	2
25	Site and Building #1 - ROMP11	Building Construction	10/30/2023	2/5/2024	5	71
26	Site and Building #1 - ROMP10 ArcCoa	Architectural Coating	11/28/2023	11/29/2023	5	2

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27	Site and Building #1 - ROMP12	Building Construction	1/8/2024	4/15/2024	5	71
28	Site and Building #1 - ROMP11 ArcCoa	Architectural Coating	2/6/2024	2/7/2024	5	2
29	Site and Building #1 - ROMP12 ArcCoa	Architectural Coating	4/16/2024	4/17/2024	5	2

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.53

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 330,750; Non-Residential Outdoor: 110,250; Striped Parking Area: 9,232 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site and Building #1 - Site Preparation	Concrete/Industrial Saws	0	8.00	81	0.73
Site and Building #1 - Site Preparation	Excavators	4	8.00	158	0.38
Site and Building #1 - Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site and Building #1 - Site Preparation	Scrapers	4	8.00	367	0.48
Site and Building #1 - Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site and Building #1 - Grading	Excavators	3	8.00	158	0.38
Site and Building #1 - Grading	Graders	3	8.00	187	0.41
Site and Building #1 - Grading	Rollers	3	8.00	80	0.38
Site and Building #1 - Grading	Rubber Tired Dozers	3	8.00	247	0.40
Site and Building #1 - Grading	Scrapers	3	8.00	367	0.48
Site and Building #1 - Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site and Building #1 - Foundation	Bore/Drill Rigs	4	8.00	221	0.50
Site and Building #1 - Foundation	Cement and Mortar Mixers	4	8.00	9	0.56
Site and Building #1 - Foundation	Cranes	0	8.00	231	0.29

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Site and Building #1 - Foundation	Excavators	3	8.00	158	0.38
Site and Building #1 - Foundation	Forklifts	0	8.00	89	0.20
Site and Building #1 - Foundation	Generator Sets	0	8.00	84	0.74
Site and Building #1 - Foundation	Other Construction Equipment	4	8.00	172	0.42
Site and Building #1 - Foundation	Pumps	4	8.00	84	0.74
Site and Building #1 - Foundation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site and Building #1 - Foundation	Welders	0	8.00	46	0.45
Site and Building #1 - Structural/Building Exterior/Roof	Cement and Mortar Mixers	4	8.00	9	0.56
Site and Building #1 - Structural/Building Exterior/Roof	Cranes	2	8.00	231	0.29
Site and Building #1 - Structural/Building Exterior/Roof	Forklifts	6	8.00	89	0.20
Site and Building #1 - Structural/Building Exterior/Roof	Generator Sets	2	8.00	84	0.74
Site and Building #1 - Structural/Building Exterior/Roof	Other Construction Equipment	4	8.00	172	0.42
Site and Building #1 - Structural/Building Exterior/Roof	Pumps	4	8.00	84	0.74
Site and Building #1 - Structural/Building Exterior/Roof	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site and Building #1 - Structural/Building Exterior/Roof	Welders	4	8.00	46	0.45
Site and Building #1 - ROMP01	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP01	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP01	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP01	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP01	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP01	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP01	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP01	Welders	3	8.00	46	0.45
Site and Building #1 - Paving	Excavators	2	8.00	158	0.38
Site and Building #1 - Paving	Graders	2	8.00	187	0.41

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Site and Building #1 - Paving	Pavers	2	8.00	130	0.42
Site and Building #1 - Paving	Paving Equipment	2	8.00	132	0.36
Site and Building #1 - Paving	Plate Compactors	2	8.00	8	0.43
Site and Building #1 - Paving	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - Paving	Rollers	2	8.00	80	0.38
Site and Building #1 - Paving	Rubber Tired Dozers	2	8.00	247	0.40
Site and Building #1 - Paving	Scrapers	2	8.00	367	0.48
Site and Building #1 - Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site and Building #1 - ROMP02		0		0	
Site and Building #1 - ROMP02	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP02	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP02	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP02	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP02	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP02	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP02	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site and Building #1 - ROMP02	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP01 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP03	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP03	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP03	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP03	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP03	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP03	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP03	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP03	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP02 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP04	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP04	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP04	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP04	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP04	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP04	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP04	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP04	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP03 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP05	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP05	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP05	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP05	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP05	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP05	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP05	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP05	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP04 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP06	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP06	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP06	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP06	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP06	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP06	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP06	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP06	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP05 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP07	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP07	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP07	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP07	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP07	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP07	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP07	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP07	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP06 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP08	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP08	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP08	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP08	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP08	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP08	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP08	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP08	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP07 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP09	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP09	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP09	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP09	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP09	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP09	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP09	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP09	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP08 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP10	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP10	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP10	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP10	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP10	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP10	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP10	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP10	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP09 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP11	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP11	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP11	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP11	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP11	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP11	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP11	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP11	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP10 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #1 - ROMP12	Air Compressors	0	8.00	78	0.48
Site and Building #1 - ROMP12	Cranes	2	8.00	231	0.29
Site and Building #1 - ROMP12	Forklifts	4	8.00	89	0.20
Site and Building #1 - ROMP12	Generator Sets	2	8.00	84	0.74
Site and Building #1 - ROMP12	Pressure Washers	2	8.00	13	0.30
Site and Building #1 - ROMP12	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #1 - ROMP12	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #1 - ROMP12	Welders	3	8.00	46	0.45
Site and Building #1 - ROMP11 ArcCoa	Air Compressors	1	6.00	78	0.48

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Site and Building #1 - ROMP12 ArcCoa	Air Compressors	1	6.00	78	0.48
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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
Site and Building #1 - Site Preparation	12	30.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Grading	18	45.00	0.00	13,125.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Foundation	22	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Structural/Building Exts	27	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP01	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - Paving	20	50.00	0.00	356.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP02	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP01 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP03	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP02 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP04	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP03 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP05	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP04 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP06	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP05 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP07	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP06 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP08	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP07 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP09	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - ROMP08 ArcCoa	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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Site and Building #1 - POMP10 ArcCag	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP09 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP11	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP10 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP12	14	157.00	61.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP11 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #1 - POMP12 ArcCag	1	31.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Alternative Fuel for Construction Equipment
- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Site and Building #1 - Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0233	0.0000	0.0233	2.5200e-003	0.0000	2.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0296	0.3245	0.2758	5.2000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	45.2849	45.2849	0.0147	0.0000	45.6511
Total	0.0296	0.3245	0.2758	5.2000e-004	0.0233	0.0139	0.0373	2.5200e-003	0.0128	0.0153	0.0000	45.2849	45.2849	0.0147	0.0000	45.6511

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3.2 Site and Building #1 - Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839
Total	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839

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					0.0105	0.0000	0.0105	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1700e-003	0.0620	0.2881	5.2000e-004		3.4100e-003	3.4100e-003		3.4100e-003	3.4100e-003	0.0000	45.2849	45.2849	0.0147	0.0000	45.6510
Total	7.1700e-003	0.0620	0.2881	5.2000e-004	0.0105	3.4100e-003	0.0139	1.1300e-003	3.4100e-003	4.5400e-003	0.0000	45.2849	45.2849	0.0147	0.0000	45.6510

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3.2 Site and Building #1 - Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839
Total	5.1000e-004	3.5000e-004	3.7700e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0833	1.0833	2.0000e-005	0.0000	1.0839

3.3 Site and Building #1 - Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3515	0.0000	0.3515	0.1580	0.0000	0.1580	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1366	1.5107	0.9100	1.8500e-003		0.0662	0.0662		0.0609	0.0609	0.0000	162.9719	162.9719	0.0527	0.0000	164.2896
Total	0.1366	1.5107	0.9100	1.8500e-003	0.3515	0.0662	0.4177	0.1580	0.0609	0.2189	0.0000	162.9719	162.9719	0.0527	0.0000	164.2896

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3.3 Site and Building #1 - Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0515	1.7550	0.3824	5.1000e-003	0.1113	5.4800e-003	0.1167	0.0306	5.2400e-003	0.0358	0.0000	494.1779	494.1779	0.0224	0.0000	494.7385
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	2.0800e-003	1.4400e-003	0.0154	5.0000e-005	5.3500e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.4317	4.4317	1.0000e-004	0.0000	4.4342
Total	0.0535	1.7565	0.3979	5.1500e-003	0.1166	5.5100e-003	0.1221	0.0320	5.2700e-003	0.0373	0.0000	498.6096	498.6096	0.0225	0.0000	499.1727

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					0.1582	0.0000	0.1582	0.0711	0.0000	0.0711	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0259	0.2291	0.9849	1.8500e-003		0.0127	0.0127		0.0127	0.0127	0.0000	162.9717	162.9717	0.0527	0.0000	164.2894
Total	0.0259	0.2291	0.9849	1.8500e-003	0.1582	0.0127	0.1709	0.0711	0.0127	0.0838	0.0000	162.9717	162.9717	0.0527	0.0000	164.2894

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3.3 Site and Building #1 - Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0515	1.7550	0.3824	5.1000e-003	0.1113	5.4800e-003	0.1167	0.0306	5.2400e-003	0.0358	0.0000	494.1779	494.1779	0.0224	0.0000	494.7385
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	2.0800e-003	1.4400e-003	0.0154	5.0000e-005	5.3500e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.4317	4.4317	1.0000e-004	0.0000	4.4342
Total	0.0535	1.7565	0.3979	5.1500e-003	0.1166	5.5100e-003	0.1221	0.0320	5.2700e-003	0.0373	0.0000	498.6096	498.6096	0.0225	0.0000	499.1727

3.4 Site and Building #1 - Foundation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3002	2.9440	3.0087	6.1100e-003		0.1417	0.1417		0.1336	0.1336	0.0000	530.5590	530.5590	0.1376	0.0000	533.9981
Total	0.3002	2.9440	3.0087	6.1100e-003		0.1417	0.1417		0.1336	0.1336	0.0000	530.5590	530.5590	0.1376	0.0000	533.9981

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3.4 Site and Building #1 - Foundation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8800e-003	0.3151	0.0840	8.0000e-004	0.0191	6.7000e-004	0.0197	5.5100e-003	6.4000e-004	6.1500e-003	0.0000	76.5664	76.5664	3.4800e-003	0.0000	76.6532
Worker	0.0254	0.0176	0.1886	6.0000e-004	0.0654	4.1000e-004	0.0658	0.0174	3.8000e-004	0.0178	0.0000	54.1155	54.1155	1.2300e-003	0.0000	54.1462
Total	0.0353	0.3327	0.2725	1.4000e-003	0.0844	1.0800e-003	0.0855	0.0229	1.0200e-003	0.0239	0.0000	130.6818	130.6818	4.7100e-003	0.0000	130.7995

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	0.1483	2.2802	3.3281	6.1100e-003		0.1169	0.1169		0.1154	0.1154	0.0000	530.5583	530.5583	0.1376	0.0000	533.9975
Total	0.1483	2.2802	3.3281	6.1100e-003		0.1169	0.1169		0.1154	0.1154	0.0000	530.5583	530.5583	0.1376	0.0000	533.9975

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3.4 Site and Building #1 - Foundation - 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	9.8800e-003	0.3151	0.0840	8.0000e-004	0.0191	6.7000e-004	0.0197	5.5100e-003	6.4000e-004	6.1500e-003	0.0000	76.5664	76.5664	3.4800e-003	0.0000	76.6532
Worker	0.0254	0.0176	0.1886	6.0000e-004	0.0654	4.1000e-004	0.0658	0.0174	3.8000e-004	0.0178	0.0000	54.1155	54.1155	1.2300e-003	0.0000	54.1462
Total	0.0353	0.3327	0.2725	1.4000e-003	0.0844	1.0800e-003	0.0855	0.0229	1.0200e-003	0.0239	0.0000	130.6818	130.6818	4.7100e-003	0.0000	130.7995

3.5 Site and Building #1 - Structural/Building Exterior/Roof - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2145	1.8862	1.7968	3.0300e-003		0.0997	0.0997		0.0951	0.0951	0.0000	257.7543	257.7543	0.0503	0.0000	259.0122
Total	0.2145	1.8862	1.7968	3.0300e-003		0.0997	0.0997		0.0951	0.0951	0.0000	257.7543	257.7543	0.0503	0.0000	259.0122

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3.5 Site and Building #1 - Structural/Building Exterior/Roof - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6500e-003	0.1801	0.0480	4.6000e-004	0.0109	3.8000e-004	0.0113	3.1500e-003	3.6000e-004	3.5100e-003	0.0000	43.7522	43.7522	1.9900e-003	0.0000	43.8019
Worker	0.0145	0.0101	0.1077	3.4000e-004	0.0374	2.4000e-004	0.0376	9.9300e-003	2.2000e-004	0.0102	0.0000	30.9231	30.9231	7.0000e-004	0.0000	30.9407
Total	0.0202	0.1901	0.1557	8.0000e-004	0.0483	6.2000e-004	0.0489	0.0131	5.8000e-004	0.0137	0.0000	74.6753	74.6753	2.6900e-003	0.0000	74.7426

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	0.0624	1.1649	1.7682	3.0300e-003		0.0718	0.0718		0.0718	0.0718	0.0000	235.1675	235.1675	0.0474	0.0000	236.3519
Total	0.0624	1.1649	1.7682	3.0300e-003		0.0718	0.0718		0.0718	0.0718	0.0000	235.1675	235.1675	0.0474	0.0000	236.3519

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3.5 Site and Building #1 - Structural/Building Exterior/Roof - 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	5.6500e-003	0.1801	0.0480	4.6000e-004	0.0109	3.8000e-004	0.0113	3.1500e-003	3.6000e-004	3.5100e-003	0.0000	43.7522	43.7522	1.9900e-003	0.0000	43.8019
Worker	0.0145	0.0101	0.1077	3.4000e-004	0.0374	2.4000e-004	0.0376	9.9300e-003	2.2000e-004	0.0102	0.0000	30.9231	30.9231	7.0000e-004	0.0000	30.9407
Total	0.0202	0.1901	0.1557	8.0000e-004	0.0483	6.2000e-004	0.0489	0.0131	5.8000e-004	0.0137	0.0000	74.6753	74.6753	2.6900e-003	0.0000	74.7426

3.6 Site and Building #1 - ROMP01 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0656	0.5589	0.4720	8.4000e-004		0.0293	0.0293		0.0279	0.0279	0.0000	70.8050	70.8050	0.0142	0.0000	71.1611
Total	0.0656	0.5589	0.4720	8.4000e-004		0.0293	0.0293		0.0279	0.0279	0.0000	70.8050	70.8050	0.0142	0.0000	71.1611

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3.6 Site and Building #1 - ROMP01 - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7700e-003	0.1201	0.0320	3.0000e-004	7.2600e-003	2.5000e-004	7.5100e-003	2.1000e-003	2.4000e-004	2.3400e-003	0.0000	29.1681	29.1681	1.3200e-003	0.0000	29.2012
Worker	9.6700e-003	6.7000e-003	0.0718	2.3000e-004	0.0249	1.6000e-004	0.0251	6.6200e-003	1.4000e-004	6.7700e-003	0.0000	20.6154	20.6154	4.7000e-004	0.0000	20.6271
Total	0.0134	0.1268	0.1038	5.3000e-004	0.0322	4.1000e-004	0.0326	8.7200e-003	3.8000e-004	9.1100e-003	0.0000	49.7835	49.7835	1.7900e-003	0.0000	49.8284

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	0.0124	0.2297	0.3976	8.4000e-004		0.0156	0.0156		0.0156	0.0156	0.0000	58.0933	58.0933	0.0126	0.0000	58.4090
Total	0.0124	0.2297	0.3976	8.4000e-004		0.0156	0.0156		0.0156	0.0156	0.0000	58.0933	58.0933	0.0126	0.0000	58.4090

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3.6 Site and Building #1 - ROMP01 - 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	3.7700e-003	0.1201	0.0320	3.0000e-004	7.2600e-003	2.5000e-004	7.5100e-003	2.1000e-003	2.4000e-004	2.3400e-003	0.0000	29.1681	29.1681	1.3200e-003	0.0000	29.2012
Worker	9.6700e-003	6.7000e-003	0.0718	2.3000e-004	0.0249	1.6000e-004	0.0251	6.6200e-003	1.4000e-004	6.7700e-003	0.0000	20.6154	20.6154	4.7000e-004	0.0000	20.6271
Total	0.0134	0.1268	0.1038	5.3000e-004	0.0322	4.1000e-004	0.0326	8.7200e-003	3.8000e-004	9.1100e-003	0.0000	49.7835	49.7835	1.7900e-003	0.0000	49.8284

3.6 Site and Building #1 - ROMP01 - 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	0.0683	0.5805	0.5345	9.7000e-004		0.0290	0.0290		0.0276	0.0276	0.0000	81.4296	81.4296	0.0162	0.0000	81.8333
Total	0.0683	0.5805	0.5345	9.7000e-004		0.0290	0.0290		0.0276	0.0276	0.0000	81.4296	81.4296	0.0162	0.0000	81.8333

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3.6 Site and Building #1 - ROMP01 - 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	4.0400e-003	0.1307	0.0346	3.5000e-004	8.3500e-003	2.5000e-004	8.6000e-003	2.4100e-003	2.4000e-004	2.6600e-003	0.0000	33.2231	33.2231	1.4500e-003	0.0000	33.2594
Worker	0.0104	6.9100e-003	0.0759	2.5000e-004	0.0286	1.8000e-004	0.0288	7.6200e-003	1.6000e-004	7.7800e-003	0.0000	22.8466	22.8466	4.8000e-004	0.0000	22.8587
Total	0.0144	0.1376	0.1105	6.0000e-004	0.0370	4.3000e-004	0.0374	0.0100	4.0000e-004	0.0104	0.0000	56.0697	56.0697	1.9300e-003	0.0000	56.1181

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	0.0142	0.2642	0.4572	9.7000e-004		0.0180	0.0180		0.0180	0.0180	0.0000	66.8111	66.8111	0.0144	0.0000	67.1719
Total	0.0142	0.2642	0.4572	9.7000e-004		0.0180	0.0180		0.0180	0.0180	0.0000	66.8111	66.8111	0.0144	0.0000	67.1719

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3.6 Site and Building #1 - ROMP01 - 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	4.0400e-003	0.1307	0.0346	3.5000e-004	8.3500e-003	2.5000e-004	8.6000e-003	2.4100e-003	2.4000e-004	2.6600e-003	0.0000	33.2231	33.2231	1.4500e-003	0.0000	33.2594
Worker	0.0104	6.9100e-003	0.0759	2.5000e-004	0.0286	1.8000e-004	0.0288	7.6200e-003	1.6000e-004	7.7800e-003	0.0000	22.8466	22.8466	4.8000e-004	0.0000	22.8587
Total	0.0144	0.1376	0.1105	6.0000e-004	0.0370	4.3000e-004	0.0374	0.0100	4.0000e-004	0.0104	0.0000	56.0697	56.0697	1.9300e-003	0.0000	56.1181

3.7 Site and Building #1 - Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1352	1.4692	0.9926	1.9400e-003		0.0652	0.0652		0.0600	0.0600	0.0000	169.4423	169.4423	0.0542	0.0000	170.7983
Paving	2.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1373	1.4692	0.9926	1.9400e-003		0.0652	0.0652		0.0600	0.0600	0.0000	169.4423	169.4423	0.0542	0.0000	170.7983

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3.7 Site and Building #1 - Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0215	4.6900e-003	6.0000e-005	2.6000e-003	7.0000e-005	2.6700e-003	6.8000e-004	6.0000e-005	7.4000e-004	0.0000	6.0637	6.0637	2.8000e-004	0.0000	6.0706
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	2.9300e-003	2.0300e-003	0.0217	7.0000e-005	7.5300e-003	5.0000e-005	7.5800e-003	2.0000e-003	4.0000e-005	2.0500e-003	0.0000	6.2372	6.2372	1.4000e-004	0.0000	6.2407
Total	3.5600e-003	0.0236	0.0264	1.3000e-004	0.0101	1.2000e-004	0.0103	2.6800e-003	1.0000e-004	2.7900e-003	0.0000	12.3009	12.3009	4.2000e-004	0.0000	12.3113

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	0.0351	0.3616	1.0717	1.9400e-003		0.0189	0.0189		0.0186	0.0186	0.0000	168.0945	168.0945	0.0541	0.0000	169.4472
Paving	2.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0372	0.3616	1.0717	1.9400e-003		0.0189	0.0189		0.0186	0.0186	0.0000	168.0945	168.0945	0.0541	0.0000	169.4472

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3.7 Site and Building #1 - Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0215	4.6900e-003	6.0000e-005	2.6000e-003	7.0000e-005	2.6700e-003	6.8000e-004	6.0000e-005	7.4000e-004	0.0000	6.0637	6.0637	2.8000e-004	0.0000	6.0706
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	2.9300e-003	2.0300e-003	0.0217	7.0000e-005	7.5300e-003	5.0000e-005	7.5800e-003	2.0000e-003	4.0000e-005	2.0500e-003	0.0000	6.2372	6.2372	1.4000e-004	0.0000	6.2407
Total	3.5600e-003	0.0236	0.0264	1.3000e-004	0.0101	1.2000e-004	0.0103	2.6800e-003	1.0000e-004	2.7900e-003	0.0000	12.3009	12.3009	4.2000e-004	0.0000	12.3113

3.7 Site and Building #1 - Paving - 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	0.1414	1.4979	1.1461	2.3500e-003		0.0652	0.0652		0.0600	0.0600	0.0000	205.1998	205.1998	0.0657	0.0000	206.8419
Paving	2.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1439	1.4979	1.1461	2.3500e-003		0.0652	0.0652		0.0600	0.0600	0.0000	205.1998	205.1998	0.0657	0.0000	206.8419

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3.7 Site and Building #1 - Paving - 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	7.2000e-004	0.0239	5.5800e-003	7.0000e-005	2.6800e-003	7.0000e-005	2.7400e-003	7.1000e-004	7.0000e-005	7.7000e-004	0.0000	7.2413	7.2413	3.3000e-004	0.0000	7.2495
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	2.2000e-003	0.0242	8.0000e-005	9.1200e-003	6.0000e-005	9.1800e-003	2.4300e-003	5.0000e-005	2.4800e-003	0.0000	7.2760	7.2760	1.5000e-004	0.0000	7.2798
Total	4.0300e-003	0.0261	0.0298	1.5000e-004	0.0118	1.3000e-004	0.0119	3.1400e-003	1.2000e-004	3.2500e-003	0.0000	14.5173	14.5173	4.8000e-004	0.0000	14.5293

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	0.0419	0.4285	1.2975	2.3500e-003		0.0223	0.0223		0.0220	0.0220	0.0000	203.5683	203.5683	0.0655	0.0000	205.2064
Paving	2.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0444	0.4285	1.2975	2.3500e-003		0.0223	0.0223		0.0220	0.0220	0.0000	203.5683	203.5683	0.0655	0.0000	205.2064

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3.7 Site and Building #1 - Paving - 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	7.2000e-004	0.0239	5.5800e-003	7.0000e-005	2.6800e-003	7.0000e-005	2.7400e-003	7.1000e-004	7.0000e-005	7.7000e-004	0.0000	7.2413	7.2413	3.3000e-004	0.0000	7.2495
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	2.2000e-003	0.0242	8.0000e-005	9.1200e-003	6.0000e-005	9.1800e-003	2.4300e-003	5.0000e-005	2.4800e-003	0.0000	7.2760	7.2760	1.5000e-004	0.0000	7.2798
Total	4.0300e-003	0.0261	0.0298	1.5000e-004	0.0118	1.3000e-004	0.0119	3.1400e-003	1.2000e-004	3.2500e-003	0.0000	14.5173	14.5173	4.8000e-004	0.0000	14.5293

3.8 Site and Building #1 - ROMP02 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.8 Site and Building #1 - ROMP02 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.8 Site and Building #1 - ROMP02 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.9 Site and Building #1 - ROMP01 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.9 Site and Building #1 - ROMP01 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.9 Site and Building #1 - ROMP01 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.10 Site and Building #1 - ROMP03 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.10 Site and Building #1 - ROMP03 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.10 Site and Building #1 - ROMP03 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.11 Site and Building #1 - ROMP02 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.11 Site and Building #1 - ROMP02 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.11 Site and Building #1 - ROMP02 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.12 Site and Building #1 - ROMP04 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.12 Site and Building #1 - ROMP04 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.12 Site and Building #1 - ROMP04 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.13 Site and Building #1 - ROMP03 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.13 Site and Building #1 - ROMP03 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.13 Site and Building #1 - ROMP03 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.14 Site and Building #1 - ROMP05 - 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	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080
Total	0.1054	0.8960	0.8250	1.5000e-003		0.0447	0.0447		0.0426	0.0426	0.0000	125.6848	125.6848	0.0249	0.0000	126.3080

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3.14 Site and Building #1 - ROMP05 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1214	103.1214	0.0223	0.0000	103.6784

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3.14 Site and Building #1 - ROMP05 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2300e-003	0.2018	0.0534	5.3000e-004	0.0129	3.9000e-004	0.0133	3.7300e-003	3.8000e-004	4.1000e-003	0.0000	51.2791	51.2791	2.2400e-003	0.0000	51.3352
Worker	0.0160	0.0107	0.1172	3.9000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	35.2632	35.2632	7.5000e-004	0.0000	35.2818
Total	0.0223	0.2125	0.1706	9.2000e-004	0.0571	6.6000e-004	0.0578	0.0155	6.3000e-004	0.0161	0.0000	86.5423	86.5423	2.9900e-003	0.0000	86.6170

3.15 Site and Building #1 - ROMP04 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.15 Site and Building #1 - ROMP04 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.15 Site and Building #1 - ROMP04 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.16 Site and Building #1 - ROMP06 - 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	0.0520	0.4417	0.4067	7.4000e-004		0.0220	0.0220		0.0210	0.0210	0.0000	61.9573	61.9573	0.0123	0.0000	62.2645
Total	0.0520	0.4417	0.4067	7.4000e-004		0.0220	0.0220		0.0210	0.0210	0.0000	61.9573	61.9573	0.0123	0.0000	62.2645

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3.16 Site and Building #1 - ROMP06 - 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	3.0700e-003	0.0995	0.0263	2.6000e-004	6.3500e-003	1.9000e-004	6.5500e-003	1.8400e-003	1.8000e-004	2.0200e-003	0.0000	25.2784	25.2784	1.1000e-003	0.0000	25.3061
Worker	7.9000e-003	5.2600e-003	0.0578	1.9000e-004	0.0218	1.3000e-004	0.0219	5.8000e-003	1.2000e-004	5.9200e-003	0.0000	17.3833	17.3833	3.7000e-004	0.0000	17.3925
Total	0.0110	0.1047	0.0841	4.5000e-004	0.0281	3.2000e-004	0.0285	7.6400e-003	3.0000e-004	7.9400e-003	0.0000	42.6617	42.6617	1.4700e-003	0.0000	42.6985

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	0.0108	0.2010	0.3479	7.4000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	50.8345	50.8345	0.0110	0.0000	51.1091
Total	0.0108	0.2010	0.3479	7.4000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	50.8345	50.8345	0.0110	0.0000	51.1091

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3.16 Site and Building #1 - ROMP06 - 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	3.0700e-003	0.0995	0.0263	2.6000e-004	6.3500e-003	1.9000e-004	6.5500e-003	1.8400e-003	1.8000e-004	2.0200e-003	0.0000	25.2784	25.2784	1.1000e-003	0.0000	25.3061
Worker	7.9000e-003	5.2600e-003	0.0578	1.9000e-004	0.0218	1.3000e-004	0.0219	5.8000e-003	1.2000e-004	5.9200e-003	0.0000	17.3833	17.3833	3.7000e-004	0.0000	17.3925
Total	0.0110	0.1047	0.0841	4.5000e-004	0.0281	3.2000e-004	0.0285	7.6400e-003	3.0000e-004	7.9400e-003	0.0000	42.6617	42.6617	1.4700e-003	0.0000	42.6985

3.16 Site and Building #1 - ROMP06 - 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	0.0496	0.4224	0.4144	7.6000e-004		0.0200	0.0200		0.0191	0.0191	0.0000	63.7272	63.7272	0.0125	0.0000	64.0386
Total	0.0496	0.4224	0.4144	7.6000e-004		0.0200	0.0200		0.0191	0.0191	0.0000	63.7272	63.7272	0.0125	0.0000	64.0386

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3.16 Site and Building #1 - ROMP06 - 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	2.3900e-003	0.0782	0.0243	2.6000e-004	6.5300e-003	9.0000e-005	6.6200e-003	1.8900e-003	8.0000e-005	1.9700e-003	0.0000	25.2565	25.2565	9.6000e-004	0.0000	25.2806
Worker	7.6100e-003	4.8600e-003	0.0547	1.9000e-004	0.0224	1.4000e-004	0.0226	5.9600e-003	1.2000e-004	6.0900e-003	0.0000	17.2008	17.2008	3.4000e-004	0.0000	17.2092
Total	0.0100	0.0831	0.0790	4.5000e-004	0.0289	2.3000e-004	0.0292	7.8500e-003	2.0000e-004	8.0600e-003	0.0000	42.4573	42.4573	1.3000e-003	0.0000	42.4898

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	0.0111	0.2067	0.3578	7.6000e-004		0.0141	0.0141		0.0141	0.0141	0.0000	52.2866	52.2866	0.0112	0.0000	52.5672
Total	0.0111	0.2067	0.3578	7.6000e-004		0.0141	0.0141		0.0141	0.0141	0.0000	52.2866	52.2866	0.0112	0.0000	52.5672

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3.16 Site and Building #1 - ROMP06 - 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	2.3900e-003	0.0782	0.0243	2.6000e-004	6.5300e-003	9.0000e-005	6.6200e-003	1.8900e-003	8.0000e-005	1.9700e-003	0.0000	25.2565	25.2565	9.6000e-004	0.0000	25.2806
Worker	7.6100e-003	4.8600e-003	0.0547	1.9000e-004	0.0224	1.4000e-004	0.0226	5.9600e-003	1.2000e-004	6.0900e-003	0.0000	17.2008	17.2008	3.4000e-004	0.0000	17.2092
Total	0.0100	0.0831	0.0790	4.5000e-004	0.0289	2.3000e-004	0.0292	7.8500e-003	2.0000e-004	8.0600e-003	0.0000	42.4573	42.4573	1.3000e-003	0.0000	42.4898

3.17 Site and Building #1 - ROMP05 ArcCoa - 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					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.17 Site and Building #1 - ROMP05 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.17 Site and Building #1 - ROMP05 ArcCoa - 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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962

3.18 Site and Building #1 - ROMP07 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.18 Site and Building #1 - ROMP07 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.18 Site and Building #1 - ROMP07 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.19 Site and Building #1 - ROMP06 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.19 Site and Building #1 - ROMP06 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.19 Site and Building #1 - ROMP06 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.20 Site and Building #1 - ROMP08 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.20 Site and Building #1 - ROMP08 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.20 Site and Building #1 - ROMP08 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.21 Site and Building #1 - ROMP07 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.21 Site and Building #1 - ROMP07 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.21 Site and Building #1 - ROMP07 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.22 Site and Building #1 - ROMP09 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.22 Site and Building #1 - ROMP09 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.22 Site and Building #1 - ROMP09 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.23 Site and Building #1 - ROMP08 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.23 Site and Building #1 - ROMP08 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.23 Site and Building #1 - ROMP08 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.24 Site and Building #1 - ROMP10 - 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	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983
Total	0.0978	0.8331	0.8173	1.5000e-003		0.0395	0.0395		0.0376	0.0376	0.0000	125.6841	125.6841	0.0246	0.0000	126.2983

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3.24 Site and Building #1 - ROMP10 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1207	103.1207	0.0221	0.0000	103.6742

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3.24 Site and Building #1 - ROMP10 - 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	4.7100e-003	0.1543	0.0480	5.2000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.8115	49.8115	1.9000e-003	0.0000	49.8590
Worker	0.0150	9.5900e-003	0.1078	3.7000e-004	0.0442	2.7000e-004	0.0445	0.0118	2.5000e-004	0.0120	0.0000	33.9237	33.9237	6.7000e-004	0.0000	33.9404
Total	0.0197	0.1638	0.1558	8.9000e-004	0.0571	4.4000e-004	0.0575	0.0155	4.1000e-004	0.0159	0.0000	83.7352	83.7352	2.5700e-003	0.0000	83.7994

3.25 Site and Building #1 - ROMP09 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.25 Site and Building #1 - ROMP09 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.25 Site and Building #1 - ROMP09 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.26 Site and Building #1 - ROMP11 - 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	0.0620	0.5280	0.5180	9.5000e-004		0.0250	0.0250		0.0238	0.0238	0.0000	79.6590	79.6590	0.0156	0.0000	80.0482
Total	0.0620	0.5280	0.5180	9.5000e-004		0.0250	0.0250		0.0238	0.0238	0.0000	79.6590	79.6590	0.0156	0.0000	80.0482

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3.26 Site and Building #1 - ROMP11 - 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	2.9800e-003	0.0978	0.0304	3.3000e-004	8.1700e-003	1.1000e-004	8.2800e-003	2.3600e-003	1.0000e-004	2.4700e-003	0.0000	31.5707	31.5707	1.2000e-003	0.0000	31.6008
Worker	9.5100e-003	6.0800e-003	0.0683	2.4000e-004	0.0280	1.7000e-004	0.0282	7.4500e-003	1.6000e-004	7.6100e-003	0.0000	21.5009	21.5009	4.2000e-004	0.0000	21.5115
Total	0.0125	0.1039	0.0988	5.7000e-004	0.0362	2.8000e-004	0.0365	9.8100e-003	2.6000e-004	0.0101	0.0000	53.0716	53.0716	1.6200e-003	0.0000	53.1123

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	0.0139	0.2584	0.4473	9.5000e-004		0.0176	0.0176		0.0176	0.0176	0.0000	65.3582	65.3582	0.0140	0.0000	65.7090
Total	0.0139	0.2584	0.4473	9.5000e-004		0.0176	0.0176		0.0176	0.0176	0.0000	65.3582	65.3582	0.0140	0.0000	65.7090

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3.26 Site and Building #1 - ROMP11 - 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	2.9800e-003	0.0978	0.0304	3.3000e-004	8.1700e-003	1.1000e-004	8.2800e-003	2.3600e-003	1.0000e-004	2.4700e-003	0.0000	31.5707	31.5707	1.2000e-003	0.0000	31.6008
Worker	9.5100e-003	6.0800e-003	0.0683	2.4000e-004	0.0280	1.7000e-004	0.0282	7.4500e-003	1.6000e-004	7.6100e-003	0.0000	21.5009	21.5009	4.2000e-004	0.0000	21.5115
Total	0.0125	0.1039	0.0988	5.7000e-004	0.0362	2.8000e-004	0.0365	9.8100e-003	2.6000e-004	0.0101	0.0000	53.0716	53.0716	1.6200e-003	0.0000	53.1123

3.26 Site and Building #1 - ROMP11 - 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	0.0335	0.2857	0.2967	5.5000e-004		0.0128	0.0128		0.0122	0.0122	0.0000	46.0249	46.0249	8.8900e-003	0.0000	46.2472
Total	0.0335	0.2857	0.2967	5.5000e-004		0.0128	0.0128		0.0122	0.0122	0.0000	46.0249	46.0249	8.8900e-003	0.0000	46.2472

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3.26 Site and Building #1 - ROMP11 - 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	1.6700e-003	0.0558	0.0170	1.9000e-004	4.7200e-003	6.0000e-005	4.7800e-003	1.3600e-003	6.0000e-005	1.4200e-003	0.0000	18.1161	18.1161	6.8000e-004	0.0000	18.1331
Worker	5.1700e-003	3.1700e-003	0.0366	1.3000e-004	0.0162	1.0000e-004	0.0163	4.3100e-003	9.0000e-005	4.3900e-003	0.0000	11.9348	11.9348	2.2000e-004	0.0000	11.9403
Total	6.8400e-003	0.0590	0.0536	3.2000e-004	0.0209	1.6000e-004	0.0211	5.6700e-003	1.5000e-004	5.8100e-003	0.0000	30.0509	30.0509	9.0000e-004	0.0000	30.0734

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	8.0300e-003	0.1493	0.2584	5.5000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	37.7622	37.7622	8.0600e-003	0.0000	37.9636
Total	8.0300e-003	0.1493	0.2584	5.5000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	37.7622	37.7622	8.0600e-003	0.0000	37.9636

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3.26 Site and Building #1 - ROMP11 - 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	1.6700e-003	0.0558	0.0170	1.9000e-004	4.7200e-003	6.0000e-005	4.7800e-003	1.3600e-003	6.0000e-005	1.4200e-003	0.0000	18.1161	18.1161	6.8000e-004	0.0000	18.1331
Worker	5.1700e-003	3.1700e-003	0.0366	1.3000e-004	0.0162	1.0000e-004	0.0163	4.3100e-003	9.0000e-005	4.3900e-003	0.0000	11.9348	11.9348	2.2000e-004	0.0000	11.9403
Total	6.8400e-003	0.0590	0.0536	3.2000e-004	0.0209	1.6000e-004	0.0211	5.6700e-003	1.5000e-004	5.8100e-003	0.0000	30.0509	30.0509	9.0000e-004	0.0000	30.0734

3.27 Site and Building #1 - ROMP10 ArcCoa - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1821	1.3000e-003	1.8100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.27 Site and Building #1 - ROMP10 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557

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3.27 Site and Building #1 - ROMP10 ArcCoa - 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	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888
Total	8.0000e-005	5.0000e-005	6.0000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1887	0.1887	0.0000	0.0000	0.1888

3.28 Site and Building #1 - ROMP12 - 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	0.0914	0.7801	0.8103	1.5000e-003		0.0349	0.0349		0.0332	0.0332	0.0000	125.6834	125.6834	0.0243	0.0000	126.2905
Total	0.0914	0.7801	0.8103	1.5000e-003		0.0349	0.0349		0.0332	0.0332	0.0000	125.6834	125.6834	0.0243	0.0000	126.2905

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3.28 Site and Building #1 - ROMP12 - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5500e-003	0.1524	0.0463	5.1000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.4709	49.4709	1.8600e-003	0.0000	49.5174
Worker	0.0141	8.6700e-003	0.1000	3.6000e-004	0.0442	2.6000e-004	0.0445	0.0118	2.4000e-004	0.0120	0.0000	32.5912	32.5912	6.0000e-004	0.0000	32.6063
Total	0.0187	0.1610	0.1463	8.7000e-004	0.0571	4.3000e-004	0.0575	0.0155	4.0000e-004	0.0159	0.0000	82.0621	82.0621	2.4600e-003	0.0000	82.1236

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1199	103.1199	0.0220	0.0000	103.6699
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1199	103.1199	0.0220	0.0000	103.6699

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3.28 Site and Building #1 - ROMP12 - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5500e-003	0.1524	0.0463	5.1000e-004	0.0129	1.7000e-004	0.0131	3.7300e-003	1.6000e-004	3.8900e-003	0.0000	49.4709	49.4709	1.8600e-003	0.0000	49.5174
Worker	0.0141	8.6700e-003	0.1000	3.6000e-004	0.0442	2.6000e-004	0.0445	0.0118	2.4000e-004	0.0120	0.0000	32.5912	32.5912	6.0000e-004	0.0000	32.6063
Total	0.0187	0.1610	0.1463	8.7000e-004	0.0571	4.3000e-004	0.0575	0.0155	4.0000e-004	0.0159	0.0000	82.0621	82.0621	2.4600e-003	0.0000	82.1236

3.29 Site and Building #1 - ROMP11 ArcCoa - 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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1820	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.29 Site and Building #1 - ROMP11 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.29 Site and Building #1 - ROMP11 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

3.30 Site and Building #1 - ROMP12 ArcCoa - 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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1820	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.30 Site and Building #1 - ROMP12 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

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	1.1819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1819	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.30 Site and Building #1 - ROMP12 ArcCoa - 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814
Total	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1813	0.1813	0.0000	0.0000	0.1814

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200
Unmitigated	0.0471	0.2305	0.7153	2.7600e-003	0.2637	2.2700e-003	0.2660	0.0706	2.1200e-003	0.0727	0.0000	252.4296	252.4296	7.6200e-003	0.0000	252.6200

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	149.94	149.94	149.94	709,144	709,144
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	149.94	149.94	149.94	709,144	709,144

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
General Light Industry	14.70	6.60	6.60	90.50	0.00	9.50	92	5	3
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Other Asphalt Surfaces	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Parking Lot	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740

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	531.2259	531.2259	0.0240	4.9700e-003	533.3074
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	531.2259	531.2259	0.0240	4.9700e-003	533.3074
NaturalGas Mitigated	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507
NaturalGas Unmitigated	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	5.81679e+006	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507
Other Asphalt Surfaces	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
Total		0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	5.81679e+006	0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507
Other Asphalt Surfaces	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
Total		0.0314	0.2851	0.2395	1.7100e-003		0.0217	0.0217		0.0217	0.0217	0.0000	310.4061	310.4061	5.9500e-003	5.6900e-003	312.2507

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.82133e+006	529.8458	0.0240	4.9600e-003	531.9219
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4744.25	1.3802	6.0000e-005	1.0000e-005	1.3856
Total		531.2259	0.0240	4.9700e-003	533.3074

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.82133e+006	529.8458	0.0240	4.9600e-003	531.9219
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4744.25	1.3802	6.0000e-005	1.0000e-005	1.3856
Total		531.2259	0.0240	4.9700e-003	533.3074

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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9252	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Unmitigated	0.9896	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003

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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	0.1182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Total	0.9896	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003

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	0.1182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8067					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003
Total	0.9252	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6900e-003	6.6900e-003	2.0000e-005	0.0000	7.1300e-003

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7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	96.4424	1.6652	0.0400	149.9864
Unmitigated	96.4424	1.6652	0.0400	149.9864

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	50.9906 / 0	96.4424	1.6652	0.0400	149.9864
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		96.4424	1.6652	0.0400	149.9864

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	50.9906 / 0	96.4424	1.6652	0.0400	149.9864
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		96.4424	1.6652	0.0400	149.9864

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	55.5018	3.2801	0.0000	137.5033
Unmitigated	55.5018	3.2801	0.0000	137.5033

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	273.42	55.5018	3.2801	0.0000	137.5033
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		55.5018	3.2801	0.0000	137.5033

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	273.42	55.5018	3.2801	0.0000	137.5033
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		55.5018	3.2801	0.0000	137.5033

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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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	218.00	1000sqft	5.00	218,000.00	0
Other Asphalt Surfaces	70.16	1000sqft	1.61	70,156.00	0
Parking Lot	6.78	1000sqft	0.16	6,777.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per construction data provided by client.
- Construction Phase - Per construction data provided by client.
- Off-road Equipment - Per construction data provided by client, including Concrete Vibrator.
- Off-road Equipment - Per construction data provided by the client.
- Off-road Equipment - Per construction data provided by the client.
- Off-road Equipment - Per construction data provided by the client.
- Off-road Equipment - Per construction data provided by the client.

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Off-road Equipment -

Off-road Equipment - Per construction data provided by the client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by the client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by the client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by the client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by the client.

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Off-road Equipment - Per construction data provided by the client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by the client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by the client.

Off-road Equipment -

Off-road Equipment - Per construction data provided by the client.

Off-road Equipment - Per construction data provided by the client.

Trips and VMT - Based on import and export volumes during construction.

Grading - Based on previously inputted construction data provided by client.

Vehicle Trips - Phase 2 trip rate accounted for in Phase 1 calculations.

Construction Off-road Equipment Mitigation - Updated to Tier 3 as a mitigation measure. Additional fugitive dust mitigation measures per BAAQMD CEQA Guidelines.

Area Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	46.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	34.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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tblConstructionPhase	NumDays	230.00	71.00
tblConstructionPhase	NumDays	230.00	105.00
tblConstructionPhase	NumDays	230.00	60.00
tblConstructionPhase	NumDays	230.00	86.00
tblConstructionPhase	NumDays	230.00	71.00
tblConstructionPhase	NumDays	230.00	71.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	84.00
tblConstructionPhase	NumDays	10.00	11.00
tblGrading	MaterialImported	0.00	105,000.00
tblLandUse	LandUseSquareFeet	70,160.00	70,156.00
tblLandUse	LandUseSquareFeet	6,780.00	6,777.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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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
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tblOffRoadEquipment	UsageHours	7.00	8.00
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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
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	178.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

2.0 Emissions Summary

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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					
2023	0.1869	2.6149	1.6771	7.8000e-003	0.4949	0.0673	0.5621	0.1939	0.0621	0.2560	0.0000	730.1359	730.1359	0.0979	0.0000	732.5826
2024	2.0434	7.9810	8.8308	0.0194	0.2151	0.3311	0.5462	0.0582	0.3115	0.3697	0.0000	1,695.6938	1,695.6938	0.3561	0.0000	1,704.5956
2025	4.9832	3.1828	3.4173	8.1200e-003	0.1690	0.1161	0.2851	0.0458	0.1105	0.1563	0.0000	707.2092	707.2092	0.0966	0.0000	709.6241
2026	4.9810	3.1752	3.3963	8.0700e-003	0.1690	0.1161	0.2851	0.0458	0.1104	0.1562	0.0000	702.9044	702.9044	0.0964	0.0000	705.3131
2027	1.2112	0.5025	0.5361	1.2700e-003	0.0269	0.0184	0.0453	7.2800e-003	0.0175	0.0248	0.0000	110.9332	110.9332	0.0152	0.0000	111.3142
Maximum	4.9832	7.9810	8.8308	0.0194	0.4949	0.3311	0.5621	0.1939	0.3115	0.3697	0.0000	1,695.6938	1,695.6938	0.3561	0.0000	1,704.5956

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0991	1.9126	1.9013	7.8000e-003	0.2904	0.0431	0.3334	0.1058	0.0424	0.1482	0.0000	730.1356	730.1356	0.0979	0.0000	732.5823
2024	1.5804	6.0608	9.2304	0.0194	0.2151	0.3100	0.5251	0.0582	0.3071	0.3654	0.0000	1,621.5046	1,621.5046	0.3486	0.0000	1,630.2183
2025	4.7458	1.9923	3.0483	8.1200e-003	0.1690	0.1051	0.2740	0.0458	0.1050	0.1508	0.0000	622.9937	622.9937	0.0886	0.0000	625.2084
2026	4.7436	1.9846	3.0273	8.0700e-003	0.1690	0.1050	0.2740	0.0458	0.1050	0.1508	0.0000	618.6888	618.6888	0.0884	0.0000	620.8975
2027	1.1735	0.3139	0.4777	1.2700e-003	0.0269	0.0167	0.0435	7.2800e-003	0.0167	0.0239	0.0000	97.5858	97.5858	0.0140	0.0000	97.9351
Maximum	4.7458	6.0608	9.2304	0.0194	0.2904	0.3100	0.5251	0.1058	0.3071	0.3654	0.0000	1,621.5046	1,621.5046	0.3486	0.0000	1,630.2183

	ROG	NOx	CO	SO2	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	7.93	29.74	0.97	0.00	19.03	10.65	15.88	25.09	5.85	12.86	0.00	6.49	6.49	3.74	0.00	6.47

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-13-2023	2-12-2024	3.4605	2.7021
2	2-13-2024	5-12-2024	1.9852	1.8893
3	5-13-2024	8-12-2024	32.8741	31.6442
4	8-13-2024	11-12-2024	23.0275	22.1918
5	11-13-2024	2-12-2025	19.8837	19.4982
6	2-13-2025	5-12-2025	38.7849	38.4417

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7	5-13-2025	8-12-2025	40.0487	39.6941
8	8-13-2025	11-12-2025	33.0425	32.6872
9	11-13-2025	2-12-2026	19.8518	19.4954
10	2-13-2026	5-12-2026	38.3701	38.0268
11	5-13-2026	8-12-2026	39.2122	38.8613
12	8-13-2026	11-12-2026	40.0474	39.6927
13	11-13-2026	2-12-2027	23.9713	23.6153
14	2-13-2027	5-12-2027	7.9940	7.9292
		Highest	40.0487	39.6941

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	0.9719	2.0000e-005	2.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2700e-003	5.2700e-003	1.0000e-005	0.0000	5.6100e-003
Energy	0.0310	0.2819	0.2368	1.6900e-003		0.0214	0.0214		0.0214	0.0214	0.0000	831.4152	831.4152	0.0296	0.0105	835.2941
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	54.8725	0.0000	54.8725	3.2429	0.0000	135.9443
Water						0.0000	0.0000		0.0000	0.0000	15.9936	79.3554	95.3490	1.6463	0.0395	148.2859
Total	1.0029	0.2819	0.2395	1.6900e-003	0.0000	0.0214	0.0214	0.0000	0.0214	0.0214	70.8661	910.7759	981.6420	4.9188	0.0501	1,119.5300

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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	0.9082	2.0000e-005	2.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2700e-003	5.2700e-003	1.0000e-005	0.0000	5.6100e-003
Energy	0.0310	0.2819	0.2368	1.6900e-003		0.0214	0.0214		0.0214	0.0214	0.0000	831.4152	831.4152	0.0296	0.0105	835.2941
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	54.8725	0.0000	54.8725	3.2429	0.0000	135.9443
Water						0.0000	0.0000		0.0000	0.0000	15.9936	79.3554	95.3490	1.6463	0.0395	148.2859
Total	0.9393	0.2819	0.2395	1.6900e-003	0.0000	0.0214	0.0214	0.0000	0.0214	0.0214	70.8661	910.7759	981.6420	4.9188	0.0501	1,119.5300

	ROG	NOx	CO	SO2	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	6.35	0.00	0.00	0.00	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	Site and Building #2 - Site Preparation	Site Preparation	11/13/2023	11/27/2023	5	11	
2	Site and Building #2 - Grading	Grading	11/13/2023	12/22/2023	5	30	

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3	Site and Building #2 - Foundation	Building Construction	12/20/2023	5/14/2024	5	105
4	Site and Building #2 - Structural/Building Exterior/Roof	Building Construction	4/24/2024	7/16/2024	5	60
5	Site and Building #2 - ROMP01	Building Construction	6/3/2024	9/30/2024	5	86
6	Site and Building #2 - Paving	Paving	6/5/2024	9/30/2024	5	84
7	Site and Building #2 - ROMP02	Building Construction	9/30/2024	1/6/2025	5	71
8	Site and Building #2 - ROMP01 ArcCoa	Architectural Coating	10/1/2024	10/2/2024	5	2
9	Site and Building #2 - ROMP03	Building Construction	1/6/2025	4/14/2025	5	71
10	Site and Building #2 - ROMP02 ArcCoa	Architectural Coating	1/7/2025	1/8/2025	5	2
11	Site and Building #2 - ROMP04	Building Construction	4/14/2025	7/21/2025	5	71
12	Site and Building #2 - ROMP03 ArcCoa	Architectural Coating	4/15/2025	4/16/2025	5	2
13	Site and Building #2 - ROMP05	Building Construction	7/21/2025	10/27/2025	5	71
14	Site and Building #2 - ROMP04 ArcCoa	Architectural Coating	7/22/2025	7/23/2025	5	2
15	Site and Building #2 - ROMP07	Building Construction	10/27/2025	2/2/2026	5	71
16	Site and Building #2 - ROMP05 ArcCoa	Architectural Coating	10/28/2025	10/29/2025	5	2
17	Site and Building #2 - ROMP08	Building Construction	2/2/2026	5/11/2026	5	71
18	Site and Building #2 - ROMP07 ArcCoa	Architectural Coating	2/3/2026	2/4/2026	5	2
19	Site and Building #2 - ROMP09	Building Construction	5/11/2026	8/17/2026	5	71
20	Site and Building #2 - ROMP08 ArcCoa	Architectural Coating	5/12/2026	5/13/2026	5	2
21	Site and Building #2 - ROMP10	Building Construction	8/17/2026	11/23/2026	5	71
22	Site and Building #2 - ROMP09 ArcCoa	Architectural Coating	8/18/2026	8/19/2026	5	2
23	Site and Building #2 - ROMP11	Building Construction	11/23/2026	3/1/2027	5	71
24	Site and Building #2 - ROMP10 ArcCoa	Architectural Coating	11/24/2026	11/25/2026	5	2
25	Site and Building #2 - ROMP11 ArcCoa	Architectural Coating	3/2/2027	3/3/2027	5	2

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 1.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 327,000; Non-Residential Outdoor: 109,000; Striped Parking Area: 4,616 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site and Building #2 - Site Preparation	Concrete/Industrial Saws	0	8.00	81	0.73
Site and Building #2 - Site Preparation	Excavators	4	8.00	158	0.38
Site and Building #2 - Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site and Building #2 - Site Preparation	Scrapers	4	8.00	367	0.48
Site and Building #2 - Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site and Building #2 - Grading	Excavators	3	8.00	158	0.38
Site and Building #2 - Grading	Graders	3	8.00	187	0.41
Site and Building #2 - Grading	Rollers	3	8.00	80	0.38
Site and Building #2 - Grading	Rubber Tired Dozers	3	8.00	247	0.40
Site and Building #2 - Grading	Scrapers	3	8.00	367	0.48
Site and Building #2 - Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site and Building #2 - Foundation	Bore/Drill Rigs	4	8.00	221	0.50
Site and Building #2 - Foundation	Cement and Mortar Mixers	4	8.00	9	0.56
Site and Building #2 - Foundation	Cranes	0	8.00	231	0.29
Site and Building #2 - Foundation	Excavators	3	8.00	158	0.38
Site and Building #2 - Foundation	Forklifts	0	8.00	89	0.20
Site and Building #2 - Foundation	Generator Sets	0	8.00	84	0.74
Site and Building #2 - Foundation	Other Construction Equipment	4	8.00	172	0.42
Site and Building #2 - Foundation	Pumps	4	8.00	84	0.74
Site and Building #2 - Foundation	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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Site and Building #2 - Foundation	Welders	0	8.00	46	0.45
Site and Building #2 - Structural/Building Exterior/Roof	Cement and Mortar Mixers	4	8.00	9	0.56
Site and Building #2 - Structural/Building Exterior/Roof	Cranes	2	8.00	231	0.29
Site and Building #2 - Structural/Building Exterior/Roof	Forklifts	6	8.00	89	0.20
Site and Building #2 - Structural/Building Exterior/Roof	Generator Sets	2	8.00	84	0.74
Site and Building #2 - Structural/Building Exterior/Roof	Other Construction Equipment	4	8.00	172	0.42
Site and Building #2 - Structural/Building Exterior/Roof	Pumps	4	8.00	84	0.74
Site and Building #2 - Structural/Building Exterior/Roof	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site and Building #2 - Structural/Building Exterior/Roof	Welders	4	8.00	46	0.45
Site and Building #2 - ROMP01	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP01	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP01	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP01	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP01	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP01	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP01	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #2 - ROMP01	Welders	3	8.00	46	0.45
Site and Building #2 - Paving	Excavators	2	8.00	158	0.38
Site and Building #2 - Paving	Graders	2	8.00	187	0.41
Site and Building #2 - Paving	Pavers	2	8.00	130	0.42
Site and Building #2 - Paving	Paving Equipment	2	8.00	132	0.36
Site and Building #2 - Paving	Plate Compactors	2	8.00	8	0.43
Site and Building #2 - Paving	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - Paving	Rollers	2	8.00	80	0.38
Site and Building #2 - Paving	Rubber Tired Dozers	2	8.00	247	0.40

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Site and Building #2 - Paving	Scrapers	2	8.00	367	0.48
Site and Building #2 - Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site and Building #2 - ROMP02	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP02	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP02	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP02	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP02	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP02	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP02	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #2 - ROMP02	Welders	3	8.00	46	0.45
Site and Building #2 - ROMP01 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #2 - ROMP03	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP03	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP03	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP03	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP03	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP03	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP03	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #2 - ROMP03	Welders	3	8.00	46	0.45
Site and Building #2 - ROMP02 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #2 - ROMP04	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP04	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP04	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP04	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP04	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP04	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP04	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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Site and Building #2 - ROMP04	Welders	3	8.00	46	0.45
Site and Building #2 - ROMP03 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #2 - ROMP05	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP05	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP05	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP05	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP05	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP05	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP05	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #2 - ROMP05	Welders	3	8.00	46	0.45
Site and Building #2 - ROMP04 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #2 - ROMP07	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP07	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP07	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP07	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP07	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP07	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP07	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #2 - ROMP07	Welders	3	8.00	46	0.45
Site and Building #2 - ROMP05 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #2 - ROMP08	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP08	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP08	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP08	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP08	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP08	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP08	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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Site and Building #2 - ROMP08	Welders	3	8.00	46	0.45
Site and Building #2 - ROMP07 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #2 - ROMP09	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP09	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP09	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP09	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP09	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP09	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP09	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #2 - ROMP09	Welders	3	8.00	46	0.45
Site and Building #2 - ROMP08 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #2 - ROMP10	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP10	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP10	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP10	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP10	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP10	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP10	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site and Building #2 - ROMP10	Welders	3	8.00	46	0.45
Site and Building #2 - ROMP09 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #2 - ROMP11	Air Compressors	0	8.00	78	0.48
Site and Building #2 - ROMP11	Cranes	2	8.00	231	0.29
Site and Building #2 - ROMP11	Forklifts	4	8.00	89	0.20
Site and Building #2 - ROMP11	Generator Sets	2	8.00	84	0.74
Site and Building #2 - ROMP11	Pressure Washers	2	8.00	13	0.30
Site and Building #2 - ROMP11	Sweepers/Scrubbers	1	8.00	64	0.46
Site and Building #2 - ROMP11	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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Site and Building #2 - ROMP11	Welders	3	8.00	46	0.45
Site and Building #2 - ROMP10 ArcCoa	Air Compressors	1	6.00	78	0.48
Site and Building #2 - ROMP11 ArcCoa	Air Compressors	1	6.00	78	0.48

Trips and VMT

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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
Site and Building #2 - Site Preparation	12	30.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - Grading	18	45.00	0.00	13,125.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - Foundation	22	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - Structural/Building Exter	27	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP01	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - Paving	20	50.00	0.00	178.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP02	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP01 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP03	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP02 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP04	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP03 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP05	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP04 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP07	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP05 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP08	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP07 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP09	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP08 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP10	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP09 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP11	14	124.00	48.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP10 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site and Building #2 - ROMP11 ArcCap	1	25.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

- Use Alternative Fuel for Construction Equipment
- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Site and Building #2 - 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					0.0233	0.0000	0.0233	2.5200e-003	0.0000	2.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2501	0.2558	5.2000e-004		0.0105	0.0105		9.6400e-003	9.6400e-003	0.0000	45.3410	45.3410	0.0147	0.0000	45.7076
Total	0.0248	0.2501	0.2558	5.2000e-004	0.0233	0.0105	0.0338	2.5200e-003	9.6400e-003	0.0122	0.0000	45.3410	45.3410	0.0147	0.0000	45.7076

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3.2 Site and Building #2 - 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	4.4000e-004	2.8000e-004	3.1900e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0043	1.0043	2.0000e-005	0.0000	1.0048
Total	4.4000e-004	2.8000e-004	3.1900e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0043	1.0043	2.0000e-005	0.0000	1.0048

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					0.0105	0.0000	0.0105	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9200e-003	0.0900	0.2736	5.2000e-004		4.8900e-003	4.8900e-003		4.7500e-003	4.7500e-003	0.0000	45.3409	45.3409	0.0147	0.0000	45.7075
Total	9.9200e-003	0.0900	0.2736	5.2000e-004	0.0105	4.8900e-003	0.0154	1.1300e-003	4.7500e-003	5.8800e-003	0.0000	45.3409	45.3409	0.0147	0.0000	45.7075

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3.2 Site and Building #2 - 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	4.4000e-004	2.8000e-004	3.1900e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0043	1.0043	2.0000e-005	0.0000	1.0048
Total	4.4000e-004	2.8000e-004	3.1900e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0043	1.0043	2.0000e-005	0.0000	1.0048

3.3 Site and Building #2 - Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3485	0.0000	0.3485	0.1576	0.0000	0.1576	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1057	1.1141	0.8225	1.8600e-003		0.0467	0.0467		0.0429	0.0429	0.0000	163.0391	163.0391	0.0527	0.0000	164.3574
Total	0.1057	1.1141	0.8225	1.8600e-003	0.3485	0.0467	0.3952	0.1576	0.0429	0.2005	0.0000	163.0391	163.0391	0.0527	0.0000	164.3574

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3.3 Site and Building #2 - Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0332	1.0601	0.3418	4.8300e-003	0.1113	1.9200e-003	0.1132	0.0306	1.8300e-003	0.0324	0.0000	468.7331	468.7331	0.0197	0.0000	469.2263
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	1.8200e-003	1.1600e-003	0.0131	5.0000e-005	5.3500e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.1085	4.1085	8.0000e-005	0.0000	4.1105
Total	0.0350	1.0613	0.3548	4.8800e-003	0.1166	1.9500e-003	0.1186	0.0320	1.8600e-003	0.0339	0.0000	472.8416	472.8416	0.0198	0.0000	473.3367

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					0.1568	0.0000	0.1568	0.0709	0.0000	0.0709	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0399	0.5733	1.0109	1.8600e-003		0.0269	0.0269		0.0266	0.0266	0.0000	163.0389	163.0389	0.0527	0.0000	164.3572
Total	0.0399	0.5733	1.0109	1.8600e-003	0.1568	0.0269	0.1837	0.0709	0.0266	0.0975	0.0000	163.0389	163.0389	0.0527	0.0000	164.3572

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3.3 Site and Building #2 - Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0332	1.0601	0.3418	4.8300e-003	0.1113	1.9200e-003	0.1132	0.0306	1.8300e-003	0.0324	0.0000	468.7331	468.7331	0.0197	0.0000	469.2263
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	1.8200e-003	1.1600e-003	0.0131	5.0000e-005	5.3500e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.1085	4.1085	8.0000e-005	0.0000	4.1105
Total	0.0350	1.0613	0.3548	4.8800e-003	0.1166	1.9500e-003	0.1186	0.0320	1.8600e-003	0.0339	0.0000	472.8416	472.8416	0.0198	0.0000	473.3367

3.4 Site and Building #2 - Foundation - 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	0.0193	0.1746	0.2270	4.7000e-004		8.1300e-003	8.1300e-003		7.6700e-003	7.6700e-003	0.0000	40.4746	40.4746	0.0104	0.0000	40.7351
Total	0.0193	0.1746	0.2270	4.7000e-004		8.1300e-003	8.1300e-003		7.6700e-003	7.6700e-003	0.0000	40.4746	40.4746	0.0104	0.0000	40.7351

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3.4 Site and Building #2 - Foundation - 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	4.2000e-004	0.0137	4.2500e-003	5.0000e-005	1.1400e-003	2.0000e-005	1.1600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	4.4164	4.4164	1.7000e-004	0.0000	4.4207
Worker	1.3400e-003	8.5000e-004	9.6000e-003	3.0000e-005	3.9300e-003	2.0000e-005	3.9600e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.0190	3.0190	6.0000e-005	0.0000	3.0205
Total	1.7600e-003	0.0145	0.0139	8.0000e-005	5.0700e-003	4.0000e-005	5.1200e-003	1.3800e-003	3.0000e-005	1.4100e-003	0.0000	7.4354	7.4354	2.3000e-004	0.0000	7.4411

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	0.0121	0.1733	0.2450	4.7000e-004		9.3000e-003	9.3000e-003		9.1500e-003	9.1500e-003	0.0000	40.4746	40.4746	0.0104	0.0000	40.7350
Total	0.0121	0.1733	0.2450	4.7000e-004		9.3000e-003	9.3000e-003		9.1500e-003	9.1500e-003	0.0000	40.4746	40.4746	0.0104	0.0000	40.7350

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3.4 Site and Building #2 - Foundation - 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	4.2000e-004	0.0137	4.2500e-003	5.0000e-005	1.1400e-003	2.0000e-005	1.1600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	4.4164	4.4164	1.7000e-004	0.0000	4.4207
Worker	1.3400e-003	8.5000e-004	9.6000e-003	3.0000e-005	3.9300e-003	2.0000e-005	3.9600e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.0190	3.0190	6.0000e-005	0.0000	3.0205
Total	1.7600e-003	0.0145	0.0139	8.0000e-005	5.0700e-003	4.0000e-005	5.1200e-003	1.3800e-003	3.0000e-005	1.4100e-003	0.0000	7.4354	7.4354	2.3000e-004	0.0000	7.4411

3.4 Site and Building #2 - Foundation - 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	0.2231	1.9782	2.7557	5.6600e-003		0.0896	0.0896		0.0844	0.0844	0.0000	491.1430	491.1430	0.1263	0.0000	494.2993
Total	0.2231	1.9782	2.7557	5.6600e-003		0.0896	0.0896		0.0844	0.0844	0.0000	491.1430	491.1430	0.1263	0.0000	494.2993

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3.4 Site and Building #2 - Foundation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1638	0.0498	5.5000e-004	0.0139	1.8000e-004	0.0140	4.0100e-003	1.7000e-004	4.1800e-003	0.0000	53.1832	53.1832	2.0000e-003	0.0000	53.2332
Worker	0.0152	9.3600e-003	0.1079	3.9000e-004	0.0477	2.8000e-004	0.0480	0.0127	2.6000e-004	0.0130	0.0000	35.1670	35.1670	6.5000e-004	0.0000	35.1833
Total	0.0201	0.1731	0.1577	9.4000e-004	0.0616	4.6000e-004	0.0620	0.0167	4.3000e-004	0.0171	0.0000	88.3503	88.3503	2.6500e-003	0.0000	88.4165

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	0.1447	2.0529	2.9726	5.6600e-003		0.1112	0.1112		0.1094	0.1094	0.0000	491.1424	491.1424	0.1263	0.0000	494.2988
Total	0.1447	2.0529	2.9726	5.6600e-003		0.1112	0.1112		0.1094	0.1094	0.0000	491.1424	491.1424	0.1263	0.0000	494.2988

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3.4 Site and Building #2 - Foundation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1638	0.0498	5.5000e-004	0.0139	1.8000e-004	0.0140	4.0100e-003	1.7000e-004	4.1800e-003	0.0000	53.1832	53.1832	2.0000e-003	0.0000	53.2332
Worker	0.0152	9.3600e-003	0.1079	3.9000e-004	0.0477	2.8000e-004	0.0480	0.0127	2.6000e-004	0.0130	0.0000	35.1670	35.1670	6.5000e-004	0.0000	35.1833
Total	0.0201	0.1731	0.1577	9.4000e-004	0.0616	4.6000e-004	0.0620	0.0167	4.3000e-004	0.0171	0.0000	88.3503	88.3503	2.6500e-003	0.0000	88.4165

3.5 Site and Building #2 - Structural/Building Exterior/Roof - 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	0.1702	1.4700	1.7630	3.0300e-003		0.0679	0.0679		0.0648	0.0648	0.0000	257.7510	257.7510	0.0486	0.0000	258.9662
Total	0.1702	1.4700	1.7630	3.0300e-003		0.0679	0.0679		0.0648	0.0648	0.0000	257.7510	257.7510	0.0486	0.0000	258.9662

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3.5 Site and Building #2 - Structural/Building Exterior/Roof - 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	3.0300e-003	0.1013	0.0308	3.4000e-004	8.5700e-003	1.1000e-004	8.6800e-003	2.4800e-003	1.1000e-004	2.5900e-003	0.0000	32.8968	32.8968	1.2400e-003	0.0000	32.9277
Worker	9.4300e-003	5.7900e-003	0.0667	2.4000e-004	0.0295	1.7000e-004	0.0297	7.8500e-003	1.6000e-004	8.0100e-003	0.0000	21.7528	21.7528	4.0000e-004	0.0000	21.7629
Total	0.0125	0.1071	0.0975	5.8000e-004	0.0381	2.8000e-004	0.0384	0.0103	2.7000e-004	0.0106	0.0000	54.6496	54.6496	1.6400e-003	0.0000	54.6906

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	0.0624	1.1649	1.7682	3.0300e-003		0.0718	0.0718		0.0718	0.0718	0.0000	235.1643	235.1643	0.0463	0.0000	236.3218
Total	0.0624	1.1649	1.7682	3.0300e-003		0.0718	0.0718		0.0718	0.0718	0.0000	235.1643	235.1643	0.0463	0.0000	236.3218

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3.5 Site and Building #2 - Structural/Building Exterior/Roof - 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	3.0300e-003	0.1013	0.0308	3.4000e-004	8.5700e-003	1.1000e-004	8.6800e-003	2.4800e-003	1.1000e-004	2.5900e-003	0.0000	32.8968	32.8968	1.2400e-003	0.0000	32.9277
Worker	9.4300e-003	5.7900e-003	0.0667	2.4000e-004	0.0295	1.7000e-004	0.0297	7.8500e-003	1.6000e-004	8.0100e-003	0.0000	21.7528	21.7528	4.0000e-004	0.0000	21.7629
Total	0.0125	0.1071	0.0975	5.8000e-004	0.0381	2.8000e-004	0.0384	0.0103	2.7000e-004	0.0106	0.0000	54.6496	54.6496	1.6400e-003	0.0000	54.6906

3.6 Site and Building #2 - ROMP01 - 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	0.1107	0.9449	0.9815	1.8100e-003		0.0422	0.0422		0.0402	0.0402	0.0000	152.2362	152.2362	0.0294	0.0000	152.9716
Total	0.1107	0.9449	0.9815	1.8100e-003		0.0422	0.0422		0.0402	0.0402	0.0000	152.2362	152.2362	0.0294	0.0000	152.9716

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3.6 Site and Building #2 - ROMP01 - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3400e-003	0.1452	0.0441	4.9000e-004	0.0123	1.6000e-004	0.0124	3.5500e-003	1.5000e-004	3.7100e-003	0.0000	47.1521	47.1521	1.7700e-003	0.0000	47.1964
Worker	0.0135	8.2900e-003	0.0956	3.4000e-004	0.0423	2.5000e-004	0.0425	0.0113	2.3000e-004	0.0115	0.0000	31.1790	31.1790	5.8000e-004	0.0000	31.1934
Total	0.0179	0.1535	0.1398	8.3000e-004	0.0546	4.1000e-004	0.0550	0.0148	3.8000e-004	0.0152	0.0000	78.3312	78.3312	2.3500e-003	0.0000	78.3898

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	0.0266	0.4939	0.8548	1.8100e-003		0.0336	0.0336		0.0336	0.0336	0.0000	124.9059	124.9059	0.0266	0.0000	125.5719
Total	0.0266	0.4939	0.8548	1.8100e-003		0.0336	0.0336		0.0336	0.0336	0.0000	124.9059	124.9059	0.0266	0.0000	125.5719

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3.6 Site and Building #2 - ROMP01 - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3400e-003	0.1452	0.0441	4.9000e-004	0.0123	1.6000e-004	0.0124	3.5500e-003	1.5000e-004	3.7100e-003	0.0000	47.1521	47.1521	1.7700e-003	0.0000	47.1964
Worker	0.0135	8.2900e-003	0.0956	3.4000e-004	0.0423	2.5000e-004	0.0425	0.0113	2.3000e-004	0.0115	0.0000	31.1790	31.1790	5.8000e-004	0.0000	31.1934
Total	0.0179	0.1535	0.1398	8.3000e-004	0.0546	4.1000e-004	0.0550	0.0148	3.8000e-004	0.0152	0.0000	78.3312	78.3312	2.3500e-003	0.0000	78.3898

3.7 Site and Building #2 - 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	0.2277	2.2798	2.0176	4.2900e-003		0.0968	0.0968		0.0892	0.0892	0.0000	374.6136	374.6136	0.1199	0.0000	377.6112
Paving	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2300	2.2798	2.0176	4.2900e-003		0.0968	0.0968		0.0892	0.0892	0.0000	374.6136	374.6136	0.1199	0.0000	377.6112

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3.7 Site and Building #2 - 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	4.4000e-004	0.0141	4.6600e-003	6.0000e-005	1.5100e-003	3.0000e-005	1.5400e-003	4.2000e-004	2.0000e-005	4.4000e-004	0.0000	6.3096	6.3096	2.7000e-004	0.0000	6.3163
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	5.3200e-003	3.2700e-003	0.0377	1.4000e-004	0.0167	1.0000e-004	0.0168	4.4300e-003	9.0000e-005	4.5200e-003	0.0000	12.2798	12.2798	2.3000e-004	0.0000	12.2855
Total	5.7600e-003	0.0173	0.0423	2.0000e-004	0.0182	1.3000e-004	0.0183	4.8500e-003	1.1000e-004	4.9600e-003	0.0000	18.5894	18.5894	5.0000e-004	0.0000	18.6018

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	0.1007	1.3923	2.4205	4.2900e-003		0.0656	0.0656		0.0646	0.0646	0.0000	371.6343	371.6343	0.1196	0.0000	374.6248
Paving	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1030	1.3923	2.4205	4.2900e-003		0.0656	0.0656		0.0646	0.0646	0.0000	371.6343	371.6343	0.1196	0.0000	374.6248

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3.7 Site and Building #2 - 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	4.4000e-004	0.0141	4.6600e-003	6.0000e-005	1.5100e-003	3.0000e-005	1.5400e-003	4.2000e-004	2.0000e-005	4.4000e-004	0.0000	6.3096	6.3096	2.7000e-004	0.0000	6.3163
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	5.3200e-003	3.2700e-003	0.0377	1.4000e-004	0.0167	1.0000e-004	0.0168	4.4300e-003	9.0000e-005	4.5200e-003	0.0000	12.2798	12.2798	2.3000e-004	0.0000	12.2855
Total	5.7600e-003	0.0173	0.0423	2.0000e-004	0.0182	1.3000e-004	0.0183	4.8500e-003	1.1000e-004	4.9600e-003	0.0000	18.5894	18.5894	5.0000e-004	0.0000	18.6018

3.8 Site and Building #2 - ROMP02 - 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	0.0863	0.7362	0.7646	1.4100e-003		0.0329	0.0329		0.0313	0.0313	0.0000	118.6026	118.6026	0.0229	0.0000	119.1756
Total	0.0863	0.7362	0.7646	1.4100e-003		0.0329	0.0329		0.0313	0.0313	0.0000	118.6026	118.6026	0.0229	0.0000	119.1756

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3.8 Site and Building #2 - ROMP02 - 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	3.3800e-003	0.1131	0.0344	3.8000e-004	9.5700e-003	1.2000e-004	9.6900e-003	2.7700e-003	1.2000e-004	2.8900e-003	0.0000	36.7348	36.7348	1.3800e-003	0.0000	36.7693
Worker	0.0105	6.4600e-003	0.0745	2.7000e-004	0.0330	2.0000e-004	0.0331	8.7600e-003	1.8000e-004	8.9400e-003	0.0000	24.2906	24.2906	4.5000e-004	0.0000	24.3019
Total	0.0139	0.1196	0.1089	6.5000e-004	0.0425	3.2000e-004	0.0428	0.0115	3.0000e-004	0.0118	0.0000	61.0254	61.0254	1.8300e-003	0.0000	61.0712

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	0.0207	0.3848	0.6659	1.4100e-003		0.0262	0.0262		0.0262	0.0262	0.0000	97.3104	97.3104	0.0208	0.0000	97.8293
Total	0.0207	0.3848	0.6659	1.4100e-003		0.0262	0.0262		0.0262	0.0262	0.0000	97.3104	97.3104	0.0208	0.0000	97.8293

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3.8 Site and Building #2 - ROMP02 - 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	3.3800e-003	0.1131	0.0344	3.8000e-004	9.5700e-003	1.2000e-004	9.6900e-003	2.7700e-003	1.2000e-004	2.8900e-003	0.0000	36.7348	36.7348	1.3800e-003	0.0000	36.7693
Worker	0.0105	6.4600e-003	0.0745	2.7000e-004	0.0330	2.0000e-004	0.0331	8.7600e-003	1.8000e-004	8.9400e-003	0.0000	24.2906	24.2906	4.5000e-004	0.0000	24.3019
Total	0.0139	0.1196	0.1089	6.5000e-004	0.0425	3.2000e-004	0.0428	0.0115	3.0000e-004	0.0118	0.0000	61.0254	61.0254	1.8300e-003	0.0000	61.0712

3.8 Site and Building #2 - ROMP02 - 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	4.8100e-003	0.0410	0.0453	8.0000e-005		1.7300e-003	1.7300e-003		1.6500e-003	1.6500e-003	0.0000	7.0808	7.0808	1.3500e-003	0.0000	7.1146
Total	4.8100e-003	0.0410	0.0453	8.0000e-005		1.7300e-003	1.7300e-003		1.6500e-003	1.6500e-003	0.0000	7.0808	7.0808	1.3500e-003	0.0000	7.1146

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3.8 Site and Building #2 - ROMP02 - 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	2.0000e-004	6.6700e-003	2.0000e-003	2.0000e-005	5.7000e-004	1.0000e-005	5.8000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	2.1786	2.1786	8.0000e-005	0.0000	2.1806
Worker	5.9000e-004	3.5000e-004	4.1200e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.3915	1.3915	2.0000e-005	0.0000	1.3922
Total	7.9000e-004	7.0200e-003	6.1200e-003	4.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.9000e-004	2.0000e-005	7.0000e-004	0.0000	3.5702	3.5702	1.0000e-004	0.0000	3.5728

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	1.2400e-003	0.0230	0.0398	8.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	5.8096	5.8096	1.2300e-003	0.0000	5.8404
Total	1.2400e-003	0.0230	0.0398	8.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	5.8096	5.8096	1.2300e-003	0.0000	5.8404

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3.8 Site and Building #2 - ROMP02 - 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	2.0000e-004	6.6700e-003	2.0000e-003	2.0000e-005	5.7000e-004	1.0000e-005	5.8000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	2.1786	2.1786	8.0000e-005	0.0000	2.1806
Worker	5.9000e-004	3.5000e-004	4.1200e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.3915	1.3915	2.0000e-005	0.0000	1.3922
Total	7.9000e-004	7.0200e-003	6.1200e-003	4.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.9000e-004	2.0000e-005	7.0000e-004	0.0000	3.5702	3.5702	1.0000e-004	0.0000	3.5728

3.9 Site and Building #2 - ROMP01 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.2200e-003	1.8100e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.9 Site and Building #2 - ROMP01 ArcCoa - 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	6.0000e-005	4.0000e-005	4.5000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1462	0.1462	0.0000	0.0000	0.1463
Total	6.0000e-005	4.0000e-005	4.5000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1462	0.1462	0.0000	0.0000	0.1463

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.9 Site and Building #2 - ROMP01 ArcCoa - 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	6.0000e-005	4.0000e-005	4.5000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1462	0.1462	0.0000	0.0000	0.1463
Total	6.0000e-005	4.0000e-005	4.5000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1462	0.1462	0.0000	0.0000	0.1463

3.10 Site and Building #2 - ROMP03 - 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	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846
Total	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846

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3.10 Site and Building #2 - ROMP03 - 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	3.4800e-003	0.1183	0.0354	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0600e-003	0.0000	38.6703	38.6703	1.4300e-003	0.0000	38.7061
Worker	0.0106	6.2200e-003	0.0732	2.7000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.9000e-004	9.4700e-003	0.0000	24.6998	24.6998	4.3000e-004	0.0000	24.7106
Total	0.0140	0.1245	0.1086	6.7000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.1000e-004	0.0125	0.0000	63.3702	63.3702	1.8600e-003	0.0000	63.4167

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676

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3.10 Site and Building #2 - ROMP03 - 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	3.4800e-003	0.1183	0.0354	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0600e-003	0.0000	38.6703	38.6703	1.4300e-003	0.0000	38.7061
Worker	0.0106	6.2200e-003	0.0732	2.7000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.9000e-004	9.4700e-003	0.0000	24.6998	24.6998	4.3000e-004	0.0000	24.7106
Total	0.0140	0.1245	0.1086	6.7000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.1000e-004	0.0125	0.0000	63.3702	63.3702	1.8600e-003	0.0000	63.4167

3.11 Site and Building #2 - ROMP02 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.11 Site and Building #2 - ROMP02 ArcCoa - 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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.11 Site and Building #2 - ROMP02 ArcCoa - 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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403

3.12 Site and Building #2 - ROMP04 - 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	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846
Total	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846

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3.12 Site and Building #2 - ROMP04 - 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	3.4800e-003	0.1183	0.0354	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0600e-003	0.0000	38.6703	38.6703	1.4300e-003	0.0000	38.7061
Worker	0.0106	6.2200e-003	0.0732	2.7000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.9000e-004	9.4700e-003	0.0000	24.6998	24.6998	4.3000e-004	0.0000	24.7106
Total	0.0140	0.1245	0.1086	6.7000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.1000e-004	0.0125	0.0000	63.3702	63.3702	1.8600e-003	0.0000	63.4167

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676

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3.12 Site and Building #2 - ROMP04 - 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	3.4800e-003	0.1183	0.0354	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0600e-003	0.0000	38.6703	38.6703	1.4300e-003	0.0000	38.7061
Worker	0.0106	6.2200e-003	0.0732	2.7000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.9000e-004	9.4700e-003	0.0000	24.6998	24.6998	4.3000e-004	0.0000	24.7106
Total	0.0140	0.1245	0.1086	6.7000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.1000e-004	0.0125	0.0000	63.3702	63.3702	1.8600e-003	0.0000	63.4167

3.13 Site and Building #2 - ROMP03 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.13 Site and Building #2 - ROMP03 ArcCoa - 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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.13 Site and Building #2 - ROMP03 ArcCoa - 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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403

3.14 Site and Building #2 - ROMP05 - 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	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846
Total	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846

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3.14 Site and Building #2 - ROMP05 - 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	3.4800e-003	0.1183	0.0354	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0600e-003	0.0000	38.6703	38.6703	1.4300e-003	0.0000	38.7061
Worker	0.0106	6.2200e-003	0.0732	2.7000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.9000e-004	9.4700e-003	0.0000	24.6998	24.6998	4.3000e-004	0.0000	24.7106
Total	0.0140	0.1245	0.1086	6.7000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.1000e-004	0.0125	0.0000	63.3702	63.3702	1.8600e-003	0.0000	63.4167

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676

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3.14 Site and Building #2 - ROMP05 - 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	3.4800e-003	0.1183	0.0354	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0600e-003	0.0000	38.6703	38.6703	1.4300e-003	0.0000	38.7061
Worker	0.0106	6.2200e-003	0.0732	2.7000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.9000e-004	9.4700e-003	0.0000	24.6998	24.6998	4.3000e-004	0.0000	24.7106
Total	0.0140	0.1245	0.1086	6.7000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.1000e-004	0.0125	0.0000	63.3702	63.3702	1.8600e-003	0.0000	63.4167

3.15 Site and Building #2 - ROMP04 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.15 Site and Building #2 - ROMP04 ArcCoa - 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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.15 Site and Building #2 - ROMP04 ArcCoa - 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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403

3.16 Site and Building #2 - ROMP07 - 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	0.0578	0.4915	0.5440	1.0100e-003		0.0208	0.0208		0.0198	0.0198	0.0000	84.9699	84.9699	0.0162	0.0000	85.3755
Total	0.0578	0.4915	0.5440	1.0100e-003		0.0208	0.0208		0.0198	0.0198	0.0000	84.9699	84.9699	0.0162	0.0000	85.3755

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3.16 Site and Building #2 - ROMP07 - 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	2.3500e-003	0.0800	0.0240	2.7000e-004	6.8600e-003	9.0000e-005	6.9400e-003	1.9800e-003	8.0000e-005	2.0700e-003	0.0000	26.1433	26.1433	9.7000e-004	0.0000	26.1675
Worker	7.1300e-003	4.2100e-003	0.0495	1.8000e-004	0.0236	1.4000e-004	0.0237	6.2800e-003	1.3000e-004	6.4000e-003	0.0000	16.6985	16.6985	2.9000e-004	0.0000	16.7058
Total	9.4800e-003	0.0842	0.0734	4.5000e-004	0.0305	2.3000e-004	0.0307	8.2600e-003	2.1000e-004	8.4700e-003	0.0000	42.8418	42.8418	1.2600e-003	0.0000	42.8733

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	0.0148	0.2757	0.4771	1.0100e-003		0.0187	0.0187		0.0187	0.0187	0.0000	69.7157	69.7157	0.0148	0.0000	70.0851
Total	0.0148	0.2757	0.4771	1.0100e-003		0.0187	0.0187		0.0187	0.0187	0.0000	69.7157	69.7157	0.0148	0.0000	70.0851

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3.16 Site and Building #2 - ROMP07 - 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	2.3500e-003	0.0800	0.0240	2.7000e-004	6.8600e-003	9.0000e-005	6.9400e-003	1.9800e-003	8.0000e-005	2.0700e-003	0.0000	26.1433	26.1433	9.7000e-004	0.0000	26.1675
Worker	7.1300e-003	4.2100e-003	0.0495	1.8000e-004	0.0236	1.4000e-004	0.0237	6.2800e-003	1.3000e-004	6.4000e-003	0.0000	16.6985	16.6985	2.9000e-004	0.0000	16.7058
Total	9.4800e-003	0.0842	0.0734	4.5000e-004	0.0305	2.3000e-004	0.0307	8.2600e-003	2.1000e-004	8.4700e-003	0.0000	42.8418	42.8418	1.2600e-003	0.0000	42.8733

3.16 Site and Building #2 - ROMP07 - 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	0.0277	0.2355	0.2606	4.8000e-004		9.9500e-003	9.9500e-003		9.4700e-003	9.4700e-003	0.0000	40.7147	40.7147	7.7700e-003	0.0000	40.9091
Total	0.0277	0.2355	0.2606	4.8000e-004		9.9500e-003	9.9500e-003		9.4700e-003	9.4700e-003	0.0000	40.7147	40.7147	7.7700e-003	0.0000	40.9091

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3.16 Site and Building #2 - ROMP07 - 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	1.1000e-003	0.0378	0.0113	1.3000e-004	3.2900e-003	4.0000e-005	3.3300e-003	9.5000e-004	4.0000e-005	9.9000e-004	0.0000	12.4513	12.4513	4.6000e-004	0.0000	12.4627
Worker	3.2500e-003	1.8500e-003	0.0221	9.0000e-005	0.0113	6.0000e-005	0.0114	3.0100e-003	6.0000e-005	3.0700e-003	0.0000	7.7052	7.7052	1.3000e-004	0.0000	7.7084
Total	4.3500e-003	0.0397	0.0334	2.2000e-004	0.0146	1.0000e-004	0.0147	3.9600e-003	1.0000e-004	4.0600e-003	0.0000	20.1565	20.1565	5.9000e-004	0.0000	20.1711

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	7.1100e-003	0.1321	0.2286	4.8000e-004		8.9800e-003	8.9800e-003		8.9800e-003	8.9800e-003	0.0000	33.4055	33.4055	7.0800e-003	0.0000	33.5825
Total	7.1100e-003	0.1321	0.2286	4.8000e-004		8.9800e-003	8.9800e-003		8.9800e-003	8.9800e-003	0.0000	33.4055	33.4055	7.0800e-003	0.0000	33.5825

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3.16 Site and Building #2 - ROMP07 - 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	1.1000e-003	0.0378	0.0113	1.3000e-004	3.2900e-003	4.0000e-005	3.3300e-003	9.5000e-004	4.0000e-005	9.9000e-004	0.0000	12.4513	12.4513	4.6000e-004	0.0000	12.4627
Worker	3.2500e-003	1.8500e-003	0.0221	9.0000e-005	0.0113	6.0000e-005	0.0114	3.0100e-003	6.0000e-005	3.0700e-003	0.0000	7.7052	7.7052	1.3000e-004	0.0000	7.7084
Total	4.3500e-003	0.0397	0.0334	2.2000e-004	0.0146	1.0000e-004	0.0147	3.9600e-003	1.0000e-004	4.0600e-003	0.0000	20.1565	20.1565	5.9000e-004	0.0000	20.1711

3.17 Site and Building #2 - ROMP05 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.17 Site and Building #2 - ROMP05 ArcCoa - 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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.17 Site and Building #2 - ROMP05 ArcCoa - 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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1403

3.18 Site and Building #2 - ROMP08 - 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	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846
Total	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846

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3.18 Site and Building #2 - ROMP08 - 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	3.4000e-003	0.1168	0.0347	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0500e-003	0.0000	38.4367	38.4367	1.4000e-003	0.0000	38.4719
Worker	0.0100	5.7000e-003	0.0683	2.6000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.8000e-004	9.4700e-003	0.0000	23.7856	23.7856	3.9000e-004	0.0000	23.7954
Total	0.0134	0.1225	0.1030	6.6000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.0000e-004	0.0125	0.0000	62.2223	62.2223	1.7900e-003	0.0000	62.2673

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676

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3.18 Site and Building #2 - ROMP08 - 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	3.4000e-003	0.1168	0.0347	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0500e-003	0.0000	38.4367	38.4367	1.4000e-003	0.0000	38.4719
Worker	0.0100	5.7000e-003	0.0683	2.6000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.8000e-004	9.4700e-003	0.0000	23.7856	23.7856	3.9000e-004	0.0000	23.7954
Total	0.0134	0.1225	0.1030	6.6000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.0000e-004	0.0125	0.0000	62.2223	62.2223	1.7900e-003	0.0000	62.2673

3.19 Site and Building #2 - ROMP07 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.19 Site and Building #2 - ROMP07 ArcCoa - 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	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351
Total	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.19 Site and Building #2 - ROMP07 ArcCoa - 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	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351
Total	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351

3.20 Site and Building #2 - ROMP09 - 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	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846
Total	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846

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3.20 Site and Building #2 - ROMP09 - 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	3.4000e-003	0.1168	0.0347	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0500e-003	0.0000	38.4367	38.4367	1.4000e-003	0.0000	38.4719
Worker	0.0100	5.7000e-003	0.0683	2.6000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.8000e-004	9.4700e-003	0.0000	23.7856	23.7856	3.9000e-004	0.0000	23.7954
Total	0.0134	0.1225	0.1030	6.6000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.0000e-004	0.0125	0.0000	62.2223	62.2223	1.7900e-003	0.0000	62.2673

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676

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3.20 Site and Building #2 - ROMP09 - 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	3.4000e-003	0.1168	0.0347	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0500e-003	0.0000	38.4367	38.4367	1.4000e-003	0.0000	38.4719
Worker	0.0100	5.7000e-003	0.0683	2.6000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.8000e-004	9.4700e-003	0.0000	23.7856	23.7856	3.9000e-004	0.0000	23.7954
Total	0.0134	0.1225	0.1030	6.6000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.0000e-004	0.0125	0.0000	62.2223	62.2223	1.7900e-003	0.0000	62.2673

3.21 Site and Building #2 - ROMP08 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.21 Site and Building #2 - ROMP08 ArcCoa - 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	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351
Total	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.21 Site and Building #2 - ROMP08 ArcCoa - 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	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351
Total	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351

3.22 Site and Building #2 - ROMP10 - 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	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846
Total	0.0854	0.7269	0.8046	1.5000e-003		0.0307	0.0307		0.0292	0.0292	0.0000	125.6846	125.6846	0.0240	0.0000	126.2846

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3.22 Site and Building #2 - ROMP10 - 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	3.4000e-003	0.1168	0.0347	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0500e-003	0.0000	38.4367	38.4367	1.4000e-003	0.0000	38.4719
Worker	0.0100	5.7000e-003	0.0683	2.6000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.8000e-004	9.4700e-003	0.0000	23.7856	23.7856	3.9000e-004	0.0000	23.7954
Total	0.0134	0.1225	0.1030	6.6000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.0000e-004	0.0125	0.0000	62.2223	62.2223	1.7900e-003	0.0000	62.2673

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	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676
Total	0.0219	0.4077	0.7057	1.5000e-003		0.0277	0.0277		0.0277	0.0277	0.0000	103.1212	103.1212	0.0219	0.0000	103.6676

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3.22 Site and Building #2 - ROMP10 - 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	3.4000e-003	0.1168	0.0347	4.0000e-004	0.0101	1.3000e-004	0.0103	2.9300e-003	1.2000e-004	3.0500e-003	0.0000	38.4367	38.4367	1.4000e-003	0.0000	38.4719
Worker	0.0100	5.7000e-003	0.0683	2.6000e-004	0.0349	2.0000e-004	0.0351	9.2900e-003	1.8000e-004	9.4700e-003	0.0000	23.7856	23.7856	3.9000e-004	0.0000	23.7954
Total	0.0134	0.1225	0.1030	6.6000e-004	0.0451	3.3000e-004	0.0454	0.0122	3.0000e-004	0.0125	0.0000	62.2223	62.2223	1.7900e-003	0.0000	62.2673

3.23 Site and Building #2 - ROMP09 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.23 Site and Building #2 - ROMP09 ArcCoa - 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	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351
Total	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.23 Site and Building #2 - ROMP09 ArcCoa - 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	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351
Total	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351

3.24 Site and Building #2 - ROMP11 - 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	0.0349	0.2969	0.3286	6.1000e-004		0.0126	0.0126		0.0119	0.0119	0.0000	51.3360	51.3360	9.8000e-003	0.0000	51.5810
Total	0.0349	0.2969	0.3286	6.1000e-004		0.0126	0.0126		0.0119	0.0119	0.0000	51.3360	51.3360	9.8000e-003	0.0000	51.5810

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3.24 Site and Building #2 - ROMP11 - 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	1.3900e-003	0.0477	0.0142	1.6000e-004	4.1400e-003	5.0000e-005	4.1900e-003	1.2000e-003	5.0000e-005	1.2500e-003	0.0000	15.6995	15.6995	5.7000e-004	0.0000	15.7139
Worker	4.1000e-003	2.3300e-003	0.0279	1.1000e-004	0.0143	8.0000e-005	0.0143	3.7900e-003	7.0000e-005	3.8700e-003	0.0000	9.7152	9.7152	1.6000e-004	0.0000	9.7193
Total	5.4900e-003	0.0500	0.0421	2.7000e-004	0.0184	1.3000e-004	0.0185	4.9900e-003	1.2000e-004	5.1200e-003	0.0000	25.4148	25.4148	7.3000e-004	0.0000	25.4331

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	8.9600e-003	0.1665	0.2882	6.1000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	42.1199	42.1199	8.9300e-003	0.0000	42.3431
Total	8.9600e-003	0.1665	0.2882	6.1000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	42.1199	42.1199	8.9300e-003	0.0000	42.3431

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3.24 Site and Building #2 - ROMP11 - 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	1.3900e-003	0.0477	0.0142	1.6000e-004	4.1400e-003	5.0000e-005	4.1900e-003	1.2000e-003	5.0000e-005	1.2500e-003	0.0000	15.6995	15.6995	5.7000e-004	0.0000	15.7139
Worker	4.1000e-003	2.3300e-003	0.0279	1.1000e-004	0.0143	8.0000e-005	0.0143	3.7900e-003	7.0000e-005	3.8700e-003	0.0000	9.7152	9.7152	1.6000e-004	0.0000	9.7193
Total	5.4900e-003	0.0500	0.0421	2.7000e-004	0.0184	1.3000e-004	0.0185	4.9900e-003	1.2000e-004	5.1200e-003	0.0000	25.4148	25.4148	7.3000e-004	0.0000	25.4331

3.24 Site and Building #2 - ROMP11 - 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	0.0505	0.4300	0.4760	8.8000e-004		0.0182	0.0182		0.0173	0.0173	0.0000	74.3486	74.3486	0.0142	0.0000	74.7035
Total	0.0505	0.4300	0.4760	8.8000e-004		0.0182	0.0182		0.0173	0.0173	0.0000	74.3486	74.3486	0.0142	0.0000	74.7035

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3.24 Site and Building #2 - ROMP11 - 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	1.9700e-003	0.0682	0.0202	2.3000e-004	6.0000e-003	7.0000e-005	6.0700e-003	1.7400e-003	7.0000e-005	1.8100e-003	0.0000	22.6084	22.6084	8.2000e-004	0.0000	22.6288
Worker	5.6500e-003	3.1000e-003	0.0378	1.5000e-004	0.0207	1.1000e-004	0.0208	5.4900e-003	1.0000e-004	5.6000e-003	0.0000	13.5904	13.5904	2.1000e-004	0.0000	13.5957
Total	7.6200e-003	0.0713	0.0580	3.8000e-004	0.0267	1.8000e-004	0.0268	7.2300e-003	1.7000e-004	7.4100e-003	0.0000	36.1988	36.1988	1.0300e-003	0.0000	36.2245

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	0.0130	0.2412	0.4175	8.8000e-004		0.0164	0.0164		0.0164	0.0164	0.0000	61.0013	61.0013	0.0129	0.0000	61.3245
Total	0.0130	0.2412	0.4175	8.8000e-004		0.0164	0.0164		0.0164	0.0164	0.0000	61.0013	61.0013	0.0129	0.0000	61.3245

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3.24 Site and Building #2 - ROMP11 - 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	1.9700e-003	0.0682	0.0202	2.3000e-004	6.0000e-003	7.0000e-005	6.0700e-003	1.7400e-003	7.0000e-005	1.8100e-003	0.0000	22.6084	22.6084	8.2000e-004	0.0000	22.6288
Worker	5.6500e-003	3.1000e-003	0.0378	1.5000e-004	0.0207	1.1000e-004	0.0208	5.4900e-003	1.0000e-004	5.6000e-003	0.0000	13.5904	13.5904	2.1000e-004	0.0000	13.5957
Total	7.6200e-003	0.0713	0.0580	3.8000e-004	0.0267	1.8000e-004	0.0268	7.2300e-003	1.7000e-004	7.4100e-003	0.0000	36.1988	36.1988	1.0300e-003	0.0000	36.2245

3.25 Site and Building #2 - ROMP10 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.25 Site and Building #2 - ROMP10 ArcCoa - 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	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351
Total	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.25 Site and Building #2 - ROMP10 ArcCoa - 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	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351
Total	6.0000e-005	3.0000e-005	3.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1351	0.1351	0.0000	0.0000	0.1351

3.26 Site and Building #2 - ROMP11 ArcCoa - 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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1530	1.1500e-003	1.8100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.26 Site and Building #2 - ROMP11 ArcCoa - 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	5.0000e-005	3.0000e-005	3.6000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1305	0.1305	0.0000	0.0000	0.1305
Total	5.0000e-005	3.0000e-005	3.6000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1305	0.1305	0.0000	0.0000	0.1305

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	1.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557
Total	1.1528	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2557

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3.26 Site and Building #2 - ROMP11 ArcCoa - 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	5.0000e-005	3.0000e-005	3.6000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1305	0.1305	0.0000	0.0000	0.1305
Total	5.0000e-005	3.0000e-005	3.6000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1305	0.1305	0.0000	0.0000	0.1305

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.614951	0.035734	0.181842	0.104158	0.013506	0.005015	0.012793	0.021727	0.002177	0.001514	0.005249	0.000632	0.000704
Other Asphalt Surfaces	0.614951	0.035734	0.181842	0.104158	0.013506	0.005015	0.012793	0.021727	0.002177	0.001514	0.005249	0.000632	0.000704
Parking Lot	0.614951	0.035734	0.181842	0.104158	0.013506	0.005015	0.012793	0.021727	0.002177	0.001514	0.005249	0.000632	0.000704

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	524.5285	524.5285	0.0237	4.9100e-003	526.5838
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	524.5285	524.5285	0.0237	4.9100e-003	526.5838
NaturalGas Mitigated	0.0310	0.2819	0.2368	1.6900e-003		0.0214	0.0214		0.0214	0.0214	0.0000	306.8867	306.8867	5.8800e-003	5.6300e-003	308.7104
NaturalGas Unmitigated	0.0310	0.2819	0.2368	1.6900e-003		0.0214	0.0214		0.0214	0.0214	0.0000	306.8867	306.8867	5.8800e-003	5.6300e-003	308.7104

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	5.75084e+006	0.0310	0.2819	0.2368	1.6900e-003		0.0214	0.0214		0.0214	0.0214	0.0000	306.8867	306.8867	5.8800e-003	5.6300e-003	308.7104
Other Asphalt Surfaces	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
Total		0.0310	0.2819	0.2368	1.6900e-003		0.0214	0.0214		0.0214	0.0214	0.0000	306.8867	306.8867	5.8800e-003	5.6300e-003	308.7104

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	5.75084e+006	0.0310	0.2819	0.2368	1.6900e-003		0.0214	0.0214		0.0214	0.0214	0.0000	306.8867	306.8867	5.8800e-003	5.6300e-003	308.7104
Other Asphalt Surfaces	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
Total		0.0310	0.2819	0.2368	1.6900e-003		0.0214	0.0214		0.0214	0.0214	0.0000	306.8867	306.8867	5.8800e-003	5.6300e-003	308.7104

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.80068e+006	523.8385	0.0237	4.9000e-003	525.8910
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2371.95	0.6900	3.0000e-005	1.0000e-005	0.6927
Total		524.5285	0.0237	4.9100e-003	526.5837

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.80068e+006	523.8385	0.0237	4.9000e-003	525.8910
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2371.95	0.6900	3.0000e-005	1.0000e-005	0.6927
Total		524.5285	0.0237	4.9100e-003	526.5837

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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9082	2.0000e-005	2.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2700e-003	5.2700e-003	1.0000e-005	0.0000	5.6100e-003
Unmitigated	0.9719	2.0000e-005	2.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2700e-003	5.2700e-003	1.0000e-005	0.0000	5.6100e-003

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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	0.1153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8564					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5000e-004	2.0000e-005	2.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2700e-003	5.2700e-003	1.0000e-005	0.0000	5.6100e-003
Total	0.9719	2.0000e-005	2.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2700e-003	5.2700e-003	1.0000e-005	0.0000	5.6100e-003

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	0.1153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5000e-004	2.0000e-005	2.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2700e-003	5.2700e-003	1.0000e-005	0.0000	5.6100e-003
Total	0.9083	2.0000e-005	2.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2700e-003	5.2700e-003	1.0000e-005	0.0000	5.6100e-003

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7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	95.3490	1.6463	0.0395	148.2859
Unmitigated	95.3490	1.6463	0.0395	148.2859

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	50.4125 / 0	95.3490	1.6463	0.0395	148.2859
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		95.3490	1.6463	0.0395	148.2859

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	50.4125 / 0	95.3490	1.6463	0.0395	148.2859
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		95.3490	1.6463	0.0395	148.2859

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	54.8725	3.2429	0.0000	135.9443
Unmitigated	54.8725	3.2429	0.0000	135.9443

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	270.32	54.8725	3.2429	0.0000	135.9443
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		54.8725	3.2429	0.0000	135.9443

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	270.32	54.8725	3.2429	0.0000	135.9443
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		54.8725	3.2429	0.0000	135.9443

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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

APPENDIX A-5: LOAD SCREENING ANALYSIS MODEL INPUT

Load Screening Analysis AERMOD Point Source Data Inputs

Index	ID	Description	X coordinate	Y coordinate	Elevation	Emission rate	NO ₂ Emission	Stack height	Stack temp.	Stack velocity	Stack diameter
			m	m	meters	g/s	rate g/s	meters	K	m/s	meters
1	GEN1A	Generator 1 at 100% Load	628169.8	4097750.2	59.73	1	5.369	9.45	763.82	45.59	0.51
2	GEN1B	Generator 1 at 75% Load	628169.8	4097750.2	59.73	1	3.297	9.45	732.32	37.01	0.51
3	GEN1C	Generator 1 at 50% Load	628169.8	4097750.2	59.73	1	1.637	9.45	727.98	28.90	0.51
4	GEN1D	Generator 1 at 25% Load	628169.8	4097750.2	59.73	1	8.346E-01	9.45	717.09	18.27	0.51
5	GEN1E	Generator 1 at 10% Load	628169.8	4097750.2	59.73	1	7.441E-01	9.45	614.98	11.18	0.51
6	GEN2A	Generator 2 at 100% Load	628172.9	4097744.6	59.69	1	5.369	9.45	763.82	45.59	0.51
7	GEN2B	Generator 2 at 75% Load	628172.9	4097744.6	59.69	1	3.297	9.45	732.32	37.01	0.51
8	GEN2C	Generator 2 at 50% Load	628172.9	4097744.6	59.69	1	1.637	9.45	727.98	28.90	0.51
9	GEN2D	Generator 2 at 25% Load	628172.9	4097744.6	59.69	1	8.346E-01	9.45	717.09	18.27	0.51
10	GEN2E	Generator 2 at 10% Load	628172.9	4097744.6	59.69	1	7.441E-01	9.45	614.98	11.18	0.51
11	GEN3A	Generator 3 at 100% Load	628180.1	4097732.7	59.7	1	5.369	9.45	763.82	45.59	0.51
12	GEN3B	Generator 3 at 75% Load	628180.1	4097732.7	59.7	1	3.297	9.45	732.32	37.01	0.51
13	GEN3C	Generator 3 at 50% Load	628180.1	4097732.7	59.7	1	1.637	9.45	727.98	28.90	0.51
14	GEN3D	Generator 3 at 25% Load	628180.1	4097732.7	59.7	1	8.346E-01	9.45	717.09	18.27	0.51
15	GEN3E	Generator 3 at 10% Load	628180.1	4097732.7	59.7	1	7.441E-01	9.45	614.98	11.18	0.51
16	GEN4A	Generator 4 at 100% Load	628183.2	4097727.7	59.69	1	5.369	9.45	763.82	45.59	0.51
17	GEN4B	Generator 4 at 75% Load	628183.2	4097727.7	59.69	1	3.297	9.45	732.32	37.01	0.51
18	GEN4C	Generator 4 at 50% Load	628183.2	4097727.7	59.69	1	1.637	9.45	727.98	28.90	0.51
19	GEN4D	Generator 4 at 25% Load	628183.2	4097727.7	59.69	1	8.346E-01	9.45	717.09	18.27	0.51
20	GEN4E	Generator 4 at 10% Load	628183.2	4097727.7	59.69	1	7.441E-01	9.45	614.98	11.18	0.51
21	GEN5A	Generator 5 at 100% Load	628190.5	4097715.5	59.71	1	5.369	9.45	763.82	45.59	0.51
22	GEN5B	Generator 5 at 75% Load	628190.5	4097715.5	59.71	1	3.297	9.45	732.32	37.01	0.51
23	GEN5C	Generator 5 at 50% Load	628190.5	4097715.5	59.71	1	1.637	9.45	727.98	28.90	0.51
24	GEN5D	Generator 5 at 25% Load	628190.5	4097715.5	59.71	1	8.346E-01	9.45	717.09	18.27	0.51
25	GEN5E	Generator 5 at 10% Load	628190.5	4097715.5	59.71	1	7.441E-01	9.45	614.98	11.18	0.51
26	GEN6A	Generator 6 at 100% Load	628193.6	4097709.8	59.63	1	5.369	9.45	763.82	45.59	0.51
27	GEN6B	Generator 6 at 75% Load	628193.6	4097709.8	59.63	1	3.297	9.45	732.32	37.01	0.51
28	GEN6C	Generator 6 at 50% Load	628193.6	4097709.8	59.63	1	1.637	9.45	727.98	28.90	0.51
29	GEN6D	Generator 6 at 25% Load	628193.6	4097709.8	59.63	1	8.346E-01	9.45	717.09	18.27	0.51
30	GEN6E	Generator 6 at 10% Load	628193.6	4097709.8	59.63	1	7.441E-01	9.45	614.98	11.18	0.51
31	GEN7A	Generator 7 at 100% Load	628201.6	4097697.4	59.55	1	5.369	9.45	763.82	45.59	0.51
32	GEN7B	Generator 7 at 75% Load	628201.6	4097697.4	59.55	1	3.297	9.45	732.32	37.01	0.51
33	GEN7C	Generator 7 at 50% Load	628201.6	4097697.4	59.55	1	1.637	9.45	727.98	28.90	0.51
34	GEN7D	Generator 7 at 25% Load	628201.6	4097697.4	59.55	1	8.346E-01	9.45	717.09	18.27	0.51
35	GEN7E	Generator 7 at 10% Load	628201.6	4097697.4	59.55	1	7.441E-01	9.45	614.98	11.18	0.51
36	GEN8A	Generator 8 at 100% Load	628204.7	4097691.6	59.52	1	5.369	9.45	763.82	45.59	0.51
37	GEN8B	Generator 8 at 75% Load	628204.7	4097691.6	59.52	1	3.297	9.45	732.32	37.01	0.51
38	GEN8C	Generator 8 at 50% Load	628204.7	4097691.6	59.52	1	1.637	9.45	727.98	28.90	0.51
39	GEN8D	Generator 8 at 25% Load	628204.7	4097691.6	59.52	1	8.346E-01	9.45	717.09	18.27	0.51
40	GEN8E	Generator 8 at 10% Load	628204.7	4097691.6	59.52	1	7.441E-01	9.45	614.98	11.18	0.51
41	GEN9A	Generator 9 at 100% Load	628212.2	4097680.1	59.4	1	5.369	9.45	763.82	45.59	0.51
42	GEN9B	Generator 9 at 75% Load	628212.2	4097680.1	59.4	1	3.297	9.45	732.32	37.01	0.51
43	GEN9C	Generator 9 at 50% Load	628212.2	4097680.1	59.4	1	1.637	9.45	727.98	28.90	0.51
44	GEN9D	Generator 9 at 25% Load	628212.2	4097680.1	59.4	1	8.346E-01	9.45	717.09	18.27	0.51
45	GEN9E	Generator 9 at 10% Load	628212.2	4097680.1	59.4	1	7.441E-01	9.45	614.98	11.18	0.51

Load Screening Analysis AERMOD Point Source Data Inputs

Index	ID	Description	X coordinate	Y coordinate	Elevation	Emission rate	NO ₂ Emission	Stack height	Stack temp.	Stack velocity	Stack diameter
			m	m	meters	g/s	rate g/s	meters	K	m/s	meters
46	GEN10A	Generator 10 at 100% Load	628215	4097674.6	59.4	1	5.369	9.45	763.82	45.59	0.51
47	GEN10B	Generator 10 at 75% Load	628215	4097674.6	59.4	1	3.297	9.45	732.32	37.01	0.51
48	GEN10C	Generator 10 at 50% Load	628215	4097674.6	59.4	1	1.637	9.45	727.98	28.90	0.51
49	GEN10D	Generator 10 at 25% Load	628215	4097674.6	59.4	1	8.346E-01	9.45	717.09	18.27	0.51
50	GEN10E	Generator 10 at 10% Load	628215	4097674.6	59.4	1	7.441E-01	9.45	614.98	11.18	0.51
51	GEN11A	Generator 11 at 100% Load	628221.8	4097663	59.41	1	5.369	9.45	763.82	45.59	0.51
52	GEN11B	Generator 11 at 75% Load	628221.8	4097663	59.41	1	3.297	9.45	732.32	37.01	0.51
53	GEN11C	Generator 11 at 50% Load	628221.8	4097663	59.41	1	1.637	9.45	727.98	28.90	0.51
54	GEN11D	Generator 11 at 25% Load	628221.8	4097663	59.41	1	8.346E-01	9.45	717.09	18.27	0.51
55	GEN11E	Generator 11 at 10% Load	628221.8	4097663	59.41	1	7.441E-01	9.45	614.98	11.18	0.51
56	GEN12A	Generator 12 at 100% Load	628225	4097657.2	59.35	1	5.369	9.45	763.82	45.59	0.51
57	GEN12B	Generator 12 at 75% Load	628225	4097657.2	59.35	1	3.297	9.45	732.32	37.01	0.51
58	GEN12C	Generator 12 at 50% Load	628225	4097657.2	59.35	1	1.637	9.45	727.98	28.90	0.51
59	GEN12D	Generator 12 at 25% Load	628225	4097657.2	59.35	1	8.346E-01	9.45	717.09	18.27	0.51
60	GEN12E	Generator 12 at 10% Load	628225	4097657.2	59.35	1	7.441E-01	9.45	614.98	11.18	0.51
61	GEN13A	Generator 13 at 100% Load	628230.1	4097649.5	59.33	1	5.369	9.45	763.82	45.59	0.51
62	GEN13B	Generator 13 at 75% Load	628230.1	4097649.5	59.33	1	3.297	9.45	732.32	37.01	0.51
63	GEN13C	Generator 13 at 50% Load	628230.1	4097649.5	59.33	1	1.637	9.45	727.98	28.90	0.51
64	GEN13D	Generator 13 at 25% Load	628230.1	4097649.5	59.33	1	8.346E-01	9.45	717.09	18.27	0.51
65	GEN13E	Generator 13 at 10% Load	628230.1	4097649.5	59.33	1	7.441E-01	9.45	614.98	11.18	0.51
66	GEN14A	Generator 14 at 100% Load	628253.4	4097611	59.13	1	5.369	9.45	763.82	45.59	0.51
67	GEN14B	Generator 14 at 75% Load	628253.4	4097611	59.13	1	3.297	9.45	732.32	37.01	0.51
68	GEN14C	Generator 14 at 50% Load	628253.4	4097611	59.13	1	1.637	9.45	727.98	28.90	0.51
69	GEN14D	Generator 14 at 25% Load	628253.4	4097611	59.13	1	8.346E-01	9.45	717.09	18.27	0.51
70	GEN14E	Generator 14 at 10% Load	628253.4	4097611	59.13	1	7.441E-01	9.45	614.98	11.18	0.51
71	GEN15A	Generator 15 at 100% Load	628259.4	4097600.2	59.04	1	5.369	9.45	763.82	45.59	0.51
72	GEN15B	Generator 15 at 75% Load	628259.4	4097600.2	59.04	1	3.297	9.45	732.32	37.01	0.51
73	GEN15C	Generator 15 at 50% Load	628259.4	4097600.2	59.04	1	1.637	9.45	727.98	28.90	0.51
74	GEN15D	Generator 15 at 25% Load	628259.4	4097600.2	59.04	1	8.346E-01	9.45	717.09	18.27	0.51
75	GEN15E	Generator 15 at 10% Load	628259.4	4097600.2	59.04	1	7.441E-01	9.45	614.98	11.18	0.51
76	GEN16A	Generator 16 at 100% Load	628263.2	4097594.7	59.08	1	5.369	9.45	763.82	45.59	0.51
77	GEN16B	Generator 16 at 75% Load	628263.2	4097594.7	59.08	1	3.297	9.45	732.32	37.01	0.51
78	GEN16C	Generator 16 at 50% Load	628263.2	4097594.7	59.08	1	1.637	9.45	727.98	28.90	0.51
79	GEN16D	Generator 16 at 25% Load	628263.2	4097594.7	59.08	1	8.346E-01	9.45	717.09	18.27	0.51
80	GEN16E	Generator 16 at 10% Load	628263.2	4097594.7	59.08	1	7.441E-01	9.45	614.98	11.18	0.51
81	GEN17A	Generator 17 at 100% Load	628270.1	4097583.5	59.07	1	5.369	9.45	763.82	45.59	0.51
82	GEN17B	Generator 17 at 75% Load	628270.1	4097583.5	59.07	1	3.297	9.45	732.32	37.01	0.51
83	GEN17C	Generator 17 at 50% Load	628270.1	4097583.5	59.07	1	1.637	9.45	727.98	28.90	0.51
84	GEN17D	Generator 17 at 25% Load	628270.1	4097583.5	59.07	1	8.346E-01	9.45	717.09	18.27	0.51
85	GEN17E	Generator 17 at 10% Load	628270.1	4097583.5	59.07	1	7.441E-01	9.45	614.98	11.18	0.51
86	GEN18A	Generator 18 at 100% Load	628273.8	4097578.3	59.03	1	5.369	9.45	763.82	45.59	0.51
87	GEN18B	Generator 18 at 75% Load	628273.8	4097578.3	59.03	1	3.297	9.45	732.32	37.01	0.51
88	GEN18C	Generator 18 at 50% Load	628273.8	4097578.3	59.03	1	1.637	9.45	727.98	28.90	0.51
89	GEN18D	Generator 18 at 25% Load	628273.8	4097578.3	59.03	1	8.346E-01	9.45	717.09	18.27	0.51

Load Screening Analysis AERMOD Point Source Data Inputs

Index	ID	Description	X coordinate	Y coordinate	Elevation	Emission rate	NO ₂ Emission	Stack height	Stack temp.	Stack velocity	Stack diameter
			m	m	meters	g/s	rate g/s	meters	K	m/s	meters
90	GEN18E	Generator 18 at 10% Load	628273.8	4097578.3	59.03	1	7.441E-01	9.45	614.98	11.18	0.51
91	GEN19A	Generator 19 at 100% Load	628280.5	4097566.1	58.82	1	5.369	9.45	763.82	45.59	0.51
92	GEN19B	Generator 19 at 75% Load	628280.5	4097566.1	58.82	1	3.297	9.45	732.32	37.01	0.51
93	GEN19C	Generator 19 at 50% Load	628280.5	4097566.1	58.82	1	1.637	9.45	727.98	28.90	0.51
94	GEN19D	Generator 19 at 25% Load	628280.5	4097566.1	58.82	1	8.346E-01	9.45	717.09	18.27	0.51
95	GEN19E	Generator 19 at 10% Load	628280.5	4097566.1	58.82	1	7.441E-01	9.45	614.98	11.18	0.51
96	GEN20A	Generator 20 at 100% Load	628284.1	4097560.8	58.79	1	5.369	9.45	763.82	45.59	0.51
97	GEN20B	Generator 20 at 75% Load	628284.1	4097560.8	58.79	1	3.297	9.45	732.32	37.01	0.51
98	GEN20C	Generator 20 at 50% Load	628284.1	4097560.8	58.79	1	1.637	9.45	727.98	28.90	0.51
99	GEN20D	Generator 20 at 25% Load	628284.1	4097560.8	58.79	1	8.346E-01	9.45	717.09	18.27	0.51
100	GEN20E	Generator 20 at 10% Load	628284.1	4097560.8	58.79	1	7.441E-01	9.45	614.98	11.18	0.51
101	GEN21A	Generator 21 at 100% Load	628291.6	4097548	58.85	1	5.369	9.45	763.82	45.59	0.51
102	GEN21B	Generator 21 at 75% Load	628291.6	4097548	58.85	1	3.297	9.45	732.32	37.01	0.51
103	GEN21C	Generator 21 at 50% Load	628291.6	4097548	58.85	1	1.637	9.45	727.98	28.90	0.51
104	GEN21D	Generator 21 at 25% Load	628291.6	4097548	58.85	1	8.346E-01	9.45	717.09	18.27	0.51
105	GEN21E	Generator 21 at 10% Load	628291.6	4097548	58.85	1	7.441E-01	9.45	614.98	11.18	0.51
106	GEN22A	Generator 22 at 100% Load	628295.3	4097542.6	58.84	1	5.369	9.45	763.82	45.59	0.51
107	GEN22B	Generator 22 at 75% Load	628295.3	4097542.6	58.84	1	3.297	9.45	732.32	37.01	0.51
108	GEN22C	Generator 22 at 50% Load	628295.3	4097542.6	58.84	1	1.637	9.45	727.98	28.90	0.51
109	GEN22D	Generator 22 at 25% Load	628295.3	4097542.6	58.84	1	8.346E-01	9.45	717.09	18.27	0.51
110	GEN22E	Generator 22 at 10% Load	628295.3	4097542.6	58.84	1	7.441E-01	9.45	614.98	11.18	0.51
111	GEN23A	Generator 23 at 100% Load	628302.2	4097530.6	58.77	1	5.369	9.45	763.82	45.59	0.51
112	GEN23B	Generator 23 at 75% Load	628302.2	4097530.6	58.77	1	3.297	9.45	732.32	37.01	0.51
113	GEN23C	Generator 23 at 50% Load	628302.2	4097530.6	58.77	1	1.637	9.45	727.98	28.90	0.51
114	GEN23D	Generator 23 at 25% Load	628302.2	4097530.6	58.77	1	8.346E-01	9.45	717.09	18.27	0.51
115	GEN23E	Generator 23 at 10% Load	628302.2	4097530.6	58.77	1	7.441E-01	9.45	614.98	11.18	0.51
116	GEN24A	Generator 24 at 100% Load	628305.5	4097525.2	58.77	1	5.369	9.45	763.82	45.59	0.51
117	GEN24B	Generator 24 at 75% Load	628305.5	4097525.2	58.77	1	3.297	9.45	732.32	37.01	0.51
118	GEN24C	Generator 24 at 50% Load	628305.5	4097525.2	58.77	1	1.637	9.45	727.98	28.90	0.51
119	GEN24D	Generator 24 at 25% Load	628305.5	4097525.2	58.77	1	8.346E-01	9.45	717.09	18.27	0.51
120	GEN24E	Generator 24 at 10% Load	628305.5	4097525.2	58.77	1	7.441E-01	9.45	614.98	11.18	0.51
121	GEN25A	Generator 25 at 100% Load	628312.7	4097513.7	58.76	1	5.369	9.45	763.82	45.59	0.51
122	GEN25B	Generator 25 at 75% Load	628312.7	4097513.7	58.76	1	3.297	9.45	732.32	37.01	0.51
123	GEN25C	Generator 25 at 50% Load	628312.7	4097513.7	58.76	1	1.637	9.45	727.98	28.90	0.51
124	GEN25D	Generator 25 at 25% Load	628312.7	4097513.7	58.76	1	8.346E-01	9.45	717.09	18.27	0.51
125	GEN25E	Generator 25 at 10% Load	628312.7	4097513.7	58.76	1	7.441E-01	9.45	614.98	11.18	0.51
126	GEN26A	Generator 26 at 100% Load	628316.3	4097508.4	58.8	1	5.369	9.45	763.82	45.59	0.51
127	GEN26B	Generator 26 at 75% Load	628316.3	4097508.4	58.8	1	3.297	9.45	732.32	37.01	0.51
128	GEN26C	Generator 26 at 50% Load	628316.3	4097508.4	58.8	1	1.637	9.45	727.98	28.90	0.51
129	GEN26D	Generator 26 at 25% Load	628316.3	4097508.4	58.8	1	8.346E-01	9.45	717.09	18.27	0.51
130	GEN26E	Generator 26 at 10% Load	628316.3	4097508.4	58.8	1	7.441E-01	9.45	614.98	11.18	0.51
131	GEN27A	Generator 27 at 100% Load	628199.3	4097767.8	59.77	1	5.369	9.45	763.82	45.59	0.51
132	GEN27B	Generator 27 at 75% Load	628199.3	4097767.8	59.77	1	3.297	9.45	732.32	37.01	0.51
133	GEN27C	Generator 27 at 50% Load	628199.3	4097767.8	59.77	1	1.637	9.45	727.98	28.90	0.51

Load Screening Analysis AERMOD Point Source Data Inputs

Index	ID	Description	X coordinate	Y coordinate	Elevation	Emission rate	NO ₂ Emission rate	Stack height	Stack temp.	Stack velocity	Stack diameter
			m	m	meters	g/s	g/s	meters	K	m/s	meters
134	GEN27D	Generator 27 at 25% Load	628199.3	4097767.8	59.77	1	8.346E-01	9.45	717.09	18.27	0.51
135	GEN27E	Generator 27 at 10% Load	628199.3	4097767.8	59.77	1	7.441E-01	9.45	614.98	11.18	0.51
136	GEN28A	Generator 28 at 100% Load	628202.4	4097762.2	59.75	1	5.369	9.45	763.82	45.59	0.51
137	GEN28B	Generator 28 at 75% Load	628202.4	4097762.2	59.75	1	3.297	9.45	732.32	37.01	0.51
138	GEN28C	Generator 28 at 50% Load	628202.4	4097762.2	59.75	1	1.637	9.45	727.98	28.90	0.51
139	GEN28D	Generator 28 at 25% Load	628202.4	4097762.2	59.75	1	8.346E-01	9.45	717.09	18.27	0.51
140	GEN28E	Generator 28 at 10% Load	628202.4	4097762.2	59.75	1	7.441E-01	9.45	614.98	11.18	0.51
141	GEN29A	Generator 29 at 100% Load	628209.4	4097750.7	59.73	1	5.369	9.45	763.82	45.59	0.51
142	GEN29B	Generator 29 at 75% Load	628209.4	4097750.7	59.73	1	3.297	9.45	732.32	37.01	0.51
143	GEN29C	Generator 29 at 50% Load	628209.4	4097750.7	59.73	1	1.637	9.45	727.98	28.90	0.51
144	GEN29D	Generator 29 at 25% Load	628209.4	4097750.7	59.73	1	8.346E-01	9.45	717.09	18.27	0.51
145	GEN29E	Generator 29 at 10% Load	628209.4	4097750.7	59.73	1	7.441E-01	9.45	614.98	11.18	0.51
146	GEN30A	Generator 30 at 100% Load	628212.5	4097745.7	59.63	1	5.369	9.45	763.82	45.59	0.51
147	GEN30B	Generator 30 at 75% Load	628212.5	4097745.7	59.63	1	3.297	9.45	732.32	37.01	0.51
148	GEN30C	Generator 30 at 50% Load	628212.5	4097745.7	59.63	1	1.637	9.45	727.98	28.90	0.51
149	GEN30D	Generator 30 at 25% Load	628212.5	4097745.7	59.63	1	8.346E-01	9.45	717.09	18.27	0.51
150	GEN30E	Generator 30 at 10% Load	628212.5	4097745.7	59.63	1	7.441E-01	9.45	614.98	11.18	0.51
151	GEN31A	Generator 31 at 100% Load	628219.5	4097733.9	59.57	1	5.369	9.45	763.82	45.59	0.51
152	GEN31B	Generator 31 at 75% Load	628219.5	4097733.9	59.57	1	3.297	9.45	732.32	37.01	0.51
153	GEN31C	Generator 31 at 50% Load	628219.5	4097733.9	59.57	1	1.637	9.45	727.98	28.90	0.51
154	GEN31D	Generator 31 at 25% Load	628219.5	4097733.9	59.57	1	8.346E-01	9.45	717.09	18.27	0.51
155	GEN31E	Generator 31 at 10% Load	628219.5	4097733.9	59.57	1	7.441E-01	9.45	614.98	11.18	0.51
156	GEN32A	Generator 32 at 100% Load	628222.6	4097728.2	59.58	1	5.369	9.45	763.82	45.59	0.51
157	GEN32B	Generator 32 at 75% Load	628222.6	4097728.2	59.58	1	3.297	9.45	732.32	37.01	0.51
158	GEN32C	Generator 32 at 50% Load	628222.6	4097728.2	59.58	1	1.637	9.45	727.98	28.90	0.51
159	GEN32D	Generator 32 at 25% Load	628222.6	4097728.2	59.58	1	8.346E-01	9.45	717.09	18.27	0.51
160	GEN32E	Generator 32 at 10% Load	628222.6	4097728.2	59.58	1	7.441E-01	9.45	614.98	11.18	0.51
161	GEN33A	Generator 33 at 100% Load	628231.1	4097715	59.57	1	5.369	9.45	763.82	45.59	0.51
162	GEN33B	Generator 33 at 75% Load	628231.1	4097715	59.57	1	3.297	9.45	732.32	37.01	0.51
163	GEN33C	Generator 33 at 50% Load	628231.1	4097715	59.57	1	1.637	9.45	727.98	28.90	0.51
164	GEN33D	Generator 33 at 25% Load	628231.1	4097715	59.57	1	8.346E-01	9.45	717.09	18.27	0.51
165	GEN33E	Generator 33 at 10% Load	628231.1	4097715	59.57	1	7.441E-01	9.45	614.98	11.18	0.51
166	GEN34A	Generator 34 at 100% Load	628234.2	4097709.2	59.56	1	5.369	9.45	763.82	45.59	0.51
167	GEN34B	Generator 34 at 75% Load	628234.2	4097709.2	59.56	1	3.297	9.45	732.32	37.01	0.51
168	GEN34C	Generator 34 at 50% Load	628234.2	4097709.2	59.56	1	1.637	9.45	727.98	28.90	0.51
169	GEN34D	Generator 34 at 25% Load	628234.2	4097709.2	59.56	1	8.346E-01	9.45	717.09	18.27	0.51
170	GEN34E	Generator 34 at 10% Load	628234.2	4097709.2	59.56	1	7.441E-01	9.45	614.98	11.18	0.51
171	GEN35A	Generator 35 at 100% Load	628241.7	4097697.7	59.48	1	5.369	9.45	763.82	45.59	0.51
172	GEN35B	Generator 35 at 75% Load	628241.7	4097697.7	59.48	1	3.297	9.45	732.32	37.01	0.51
173	GEN35C	Generator 35 at 50% Load	628241.7	4097697.7	59.48	1	1.637	9.45	727.98	28.90	0.51
174	GEN35D	Generator 35 at 25% Load	628241.7	4097697.7	59.48	1	8.346E-01	9.45	717.09	18.27	0.51
175	GEN35E	Generator 35 at 10% Load	628241.7	4097697.7	59.48	1	7.441E-01	9.45	614.98	11.18	0.51
176	GEN36A	Generator 36 at 100% Load	628244.5	4097692.2	59.42	1	5.369	9.45	763.82	45.59	0.51
177	GEN36B	Generator 36 at 75% Load	628244.5	4097692.2	59.42	1	3.297	9.45	732.32	37.01	0.51

Load Screening Analysis AERMOD Point Source Data Inputs

Index	ID	Description	X coordinate	Y coordinate	Elevation	Emission rate	NO ₂ Emission rate	Stack height	Stack temp.	Stack velocity	Stack diameter
			m	m	meters	g/s	g/s	meters	K	m/s	meters
178	GEN36C	Generator 36 at 50% Load	628244.5	4097692.2	59.42	1	1.637	9.45	727.98	28.90	0.51
179	GEN36D	Generator 36 at 25% Load	628244.5	4097692.2	59.42	1	8.346E-01	9.45	717.09	18.27	0.51
180	GEN36E	Generator 36 at 10% Load	628244.5	4097692.2	59.42	1	7.441E-01	9.45	614.98	11.18	0.51
181	GEN37A	Generator 37 at 100% Load	628251.4	4097680.9	59.42	1	5.369	9.45	763.82	45.59	0.51
182	GEN37B	Generator 37 at 75% Load	628251.4	4097680.9	59.42	1	3.297	9.45	732.32	37.01	0.51
183	GEN37C	Generator 37 at 50% Load	628251.4	4097680.9	59.42	1	1.637	9.45	727.98	28.90	0.51
184	GEN37D	Generator 37 at 25% Load	628251.4	4097680.9	59.42	1	8.346E-01	9.45	717.09	18.27	0.51
185	GEN37E	Generator 37 at 10% Load	628251.4	4097680.9	59.42	1	7.441E-01	9.45	614.98	11.18	0.51
186	GEN38A	Generator 38 at 100% Load	628254.6	4097675.1	59.45	1	5.369	9.45	763.82	45.59	0.51
187	GEN38B	Generator 38 at 75% Load	628254.6	4097675.1	59.45	1	3.297	9.45	732.32	37.01	0.51
188	GEN38C	Generator 38 at 50% Load	628254.6	4097675.1	59.45	1	1.637	9.45	727.98	28.90	0.51
189	GEN38D	Generator 38 at 25% Load	628254.6	4097675.1	59.45	1	8.346E-01	9.45	717.09	18.27	0.51
190	GEN38E	Generator 38 at 10% Load	628254.6	4097675.1	59.45	1	7.441E-01	9.45	614.98	11.18	0.51
191	GEN39A	Generator 39 at 100% Load	628260.8	4097665.3	59.35	1	5.369	9.45	763.82	45.59	0.51
192	GEN39B	Generator 39 at 75% Load	628260.8	4097665.3	59.35	1	3.297	9.45	732.32	37.01	0.51
193	GEN39C	Generator 39 at 50% Load	628260.8	4097665.3	59.35	1	1.637	9.45	727.98	28.90	0.51
194	GEN39D	Generator 39 at 25% Load	628260.8	4097665.3	59.35	1	8.346E-01	9.45	717.09	18.27	0.51
195	GEN39E	Generator 39 at 10% Load	628260.8	4097665.3	59.35	1	7.441E-01	9.45	614.98	11.18	0.51
196	GEN40A	Generator 40 at 100% Load	628284.2	4097626.5	59.2	1	5.369	9.45	763.82	45.59	0.51
197	GEN40B	Generator 40 at 75% Load	628284.2	4097626.5	59.2	1	3.297	9.45	732.32	37.01	0.51
198	GEN40C	Generator 40 at 50% Load	628284.2	4097626.5	59.2	1	1.637	9.45	727.98	28.90	0.51
199	GEN40D	Generator 40 at 25% Load	628284.2	4097626.5	59.2	1	8.346E-01	9.45	717.09	18.27	0.51
200	GEN40E	Generator 40 at 10% Load	628284.2	4097626.5	59.2	1	7.441E-01	9.45	614.98	11.18	0.51
201	GEN41A	Generator 41 at 100% Load	628288.8	4097618.8	59.17	1	5.369	9.45	763.82	45.59	0.51
202	GEN41B	Generator 41 at 75% Load	628288.8	4097618.8	59.17	1	3.297	9.45	732.32	37.01	0.51
203	GEN41C	Generator 41 at 50% Load	628288.8	4097618.8	59.17	1	1.637	9.45	727.98	28.90	0.51
204	GEN41D	Generator 41 at 25% Load	628288.8	4097618.8	59.17	1	8.346E-01	9.45	717.09	18.27	0.51
205	GEN41E	Generator 41 at 10% Load	628288.8	4097618.8	59.17	1	7.441E-01	9.45	614.98	11.18	0.51
206	GEN42A	Generator 42 at 100% Load	628292.5	4097612.8	59.21	1	5.369	9.45	763.82	45.59	0.51
207	GEN42B	Generator 42 at 75% Load	628292.5	4097612.8	59.21	1	3.297	9.45	732.32	37.01	0.51
208	GEN42C	Generator 42 at 50% Load	628292.5	4097612.8	59.21	1	1.637	9.45	727.98	28.90	0.51
209	GEN42D	Generator 42 at 25% Load	628292.5	4097612.8	59.21	1	8.346E-01	9.45	717.09	18.27	0.51
210	GEN42E	Generator 42 at 10% Load	628292.5	4097612.8	59.21	1	7.441E-01	9.45	614.98	11.18	0.51
211	GEN43A	Generator 43 at 100% Load	628299.6	4097601.1	59.08	1	5.369	9.45	763.82	45.59	0.51
212	GEN43B	Generator 43 at 75% Load	628299.6	4097601.1	59.08	1	3.297	9.45	732.32	37.01	0.51
213	GEN43C	Generator 43 at 50% Load	628299.6	4097601.1	59.08	1	1.637	9.45	727.98	28.90	0.51
214	GEN43D	Generator 43 at 25% Load	628299.6	4097601.1	59.08	1	8.346E-01	9.45	717.09	18.27	0.51
215	GEN43E	Generator 43 at 10% Load	628299.6	4097601.1	59.08	1	7.441E-01	9.45	614.98	11.18	0.51
216	GEN44A	Generator 44 at 100% Load	628303.3	4097595.9	59.06	1	5.369	9.45	763.82	45.59	0.51
217	GEN44B	Generator 44 at 75% Load	628303.3	4097595.9	59.06	1	3.297	9.45	732.32	37.01	0.51
218	GEN44C	Generator 44 at 50% Load	628303.3	4097595.9	59.06	1	1.637	9.45	727.98	28.90	0.51
219	GEN44D	Generator 44 at 25% Load	628303.3	4097595.9	59.06	1	8.346E-01	9.45	717.09	18.27	0.51
220	GEN44E	Generator 44 at 10% Load	628303.3	4097595.9	59.06	1	7.441E-01	9.45	614.98	11.18	0.51
221	GEN45A	Generator 45 at 100% Load	628309.8	4097584.2	58.86	1	5.369	9.45	763.82	45.59	0.51

Load Screening Analysis AERMOD Point Source Data Inputs

Index	ID	Description	X coordinate	Y coordinate	Elevation	Emission rate	NO ₂ Emission	Stack height	Stack temp.	Stack velocity	Stack diameter
			m	m	meters	g/s	rate g/s	meters	K	m/s	meters
222	GEN45B	Generator 45 at 75% Load	628309.8	4097584.2	58.86	1	3.297	9.45	732.32	37.01	0.51
223	GEN45C	Generator 45 at 50% Load	628309.8	4097584.2	58.86	1	1.637	9.45	727.98	28.90	0.51
224	GEN45D	Generator 45 at 25% Load	628309.8	4097584.2	58.86	1	8.346E-01	9.45	717.09	18.27	0.51
225	GEN45E	Generator 45 at 10% Load	628309.8	4097584.2	58.86	1	7.441E-01	9.45	614.98	11.18	0.51
226	GEN46A	Generator 46 at 100% Load	628313.4	4097578.9	58.76	1	5.369	9.45	763.82	45.59	0.51
227	GEN46B	Generator 46 at 75% Load	628313.4	4097578.9	58.76	1	3.297	9.45	732.32	37.01	0.51
228	GEN46C	Generator 46 at 50% Load	628313.4	4097578.9	58.76	1	1.637	9.45	727.98	28.90	0.51
229	GEN46D	Generator 46 at 25% Load	628313.4	4097578.9	58.76	1	8.346E-01	9.45	717.09	18.27	0.51
230	GEN46E	Generator 46 at 10% Load	628313.4	4097578.9	58.76	1	7.441E-01	9.45	614.98	11.18	0.51
231	GEN47A	Generator 47 at 100% Load	628321.1	4097565.6	58.89	1	5.369	9.45	763.82	45.59	0.51
232	GEN47B	Generator 47 at 75% Load	628321.1	4097565.6	58.89	1	3.297	9.45	732.32	37.01	0.51
233	GEN47C	Generator 47 at 50% Load	628321.1	4097565.6	58.89	1	1.637	9.45	727.98	28.90	0.51
234	GEN47D	Generator 47 at 25% Load	628321.1	4097565.6	58.89	1	8.346E-01	9.45	717.09	18.27	0.51
235	GEN47E	Generator 47 at 10% Load	628321.1	4097565.6	58.89	1	7.441E-01	9.45	614.98	11.18	0.51
236	GEN48A	Generator 48 at 100% Load	628324.8	4097560.2	58.92	1	5.369	9.45	763.82	45.59	0.51
237	GEN48B	Generator 48 at 75% Load	628324.8	4097560.2	58.92	1	3.297	9.45	732.32	37.01	0.51
238	GEN48C	Generator 48 at 50% Load	628324.8	4097560.2	58.92	1	1.637	9.45	727.98	28.90	0.51
239	GEN48D	Generator 48 at 25% Load	628324.8	4097560.2	58.92	1	8.346E-01	9.45	717.09	18.27	0.51
240	GEN48E	Generator 48 at 10% Load	628324.8	4097560.2	58.92	1	7.441E-01	9.45	614.98	11.18	0.51
241	GEN49A	Generator 49 at 100% Load	628331.7	4097548.2	58.9	1	5.369	9.45	763.82	45.59	0.51
242	GEN49B	Generator 49 at 75% Load	628331.7	4097548.2	58.9	1	3.297	9.45	732.32	37.01	0.51
243	GEN49C	Generator 49 at 50% Load	628331.7	4097548.2	58.9	1	1.637	9.45	727.98	28.90	0.51
244	GEN49D	Generator 49 at 25% Load	628331.7	4097548.2	58.9	1	8.346E-01	9.45	717.09	18.27	0.51
245	GEN49E	Generator 49 at 10% Load	628331.7	4097548.2	58.9	1	7.441E-01	9.45	614.98	11.18	0.51
246	GEN50A	Generator 50 at 100% Load	628335	4097542.8	58.84	1	5.369	9.45	763.82	45.59	0.51
247	GEN50B	Generator 50 at 75% Load	628335	4097542.8	58.84	1	3.297	9.45	732.32	37.01	0.51
248	GEN50C	Generator 50 at 50% Load	628335	4097542.8	58.84	1	1.637	9.45	727.98	28.90	0.51
249	GEN50D	Generator 50 at 25% Load	628335	4097542.8	58.84	1	8.346E-01	9.45	717.09	18.27	0.51
250	GEN50E	Generator 50 at 10% Load	628335	4097542.8	58.84	1	7.441E-01	9.45	614.98	11.18	0.51
251	LSGEN1F	Life Safety Generator 1 at 100% Load	628223.6	4097605.2	59.22	1	1.053	12.50	807.76	30.95	0.30
252	LSGEN2F	Life Safety Generator 2 at 100% Load	628291.8	4097669.7	59.33	1	1.053	12.50	807.76	30.95	0.30
253	SEC1G	Security Building Generator 1 at 100% Load	628172.2	4097821.5	60.06	1	2.134E-01	2.50	782.04	24.40	0.17

**APPENDIX A-6: LOAD SCREENING ANALYSIS MODEL TOTAL
OUTPUT**

General Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr Averaging Period						3-Hr Averaging Period					8-Hr Averaging Period					24-Hr Averaging Period					
	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	PM _{2.5/10}
	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)
GEN1A	628107.8	4097434.7	59.34	111.33	47.189	0.618	628107.8	4097434.7	59.34	76.19	0.423	628069	4097485	59.54	40.18	17.0	628489	4097585	58.79	15.80	0.088	0.096
GEN1B	628107.8	4097434.7	59.34	127.40	25.394	0.538	628107.8	4097434.7	59.34	85.57	0.361	628070.4	4097505.1	59.86	50.84	10.1	628069	4097865	60.62	19.60	0.083	0.068
GEN1C	628107.8	4097434.7	59.34	149.74	25.143	0.432	628107.8	4097434.7	59.34	97.61	0.282	628070.4	4097505.1	59.86	57.57	9.7	628069	4097865	60.62	24.94	0.072	0.098
GEN1D	628107.8	4097434.7	59.34	192.28	45.068	0.303	628118.5	4097417.8	59.2	123.32	0.194	628070.4	4097505.1	59.86	71.81	16.8	628089	4097845	60.6	38.31	0.060	0.164
GEN1E	628107.8	4097434.7	59.34	238.03	77.882	0.181	628129	4097805	60.01	157.02	0.119	628129	4097805	60.01	96.93	31.7	628109	4097825	60.06	61.49	0.047	0.255
GEN2A	628054.2	4097541.7	59.83	119.95	50.839	0.666	628107.8	4097434.7	59.34	74.57	0.414	628070.4	4097505.1	59.86	49.42	20.9	628069	4097485	59.54	18.44	0.102	0.112
GEN2B	628107.8	4097434.7	59.34	135.04	26.917	0.570	628107.8	4097434.7	59.34	83.39	0.352	628070.4	4097505.1	59.86	54.67	10.9	628069	4097485	59.54	22.19	0.094	0.077
GEN2C	628107.8	4097434.7	59.34	158.49	26.613	0.458	628118.5	4097417.8	59.2	96.41	0.278	628070.4	4097505.1	59.86	61.80	10.4	628069	4097485	59.54	25.45	0.074	0.100
GEN2D	628107.8	4097434.7	59.34	204.70	47.977	0.322	628118.5	4097417.8	59.2	121.60	0.191	628070.4	4097505.1	59.86	78.61	18.4	628089	4097845	60.6	38.23	0.060	0.164
GEN2E	628107.8	4097434.7	59.34	255.89	83.725	0.194	628118.5	4097417.8	59.2	151.65	0.115	628070.4	4097505.1	59.86	95.97	31.4	628109	4097825	60.06	59.62	0.045	0.247
GEN3A	628049	4097525	59.74	138.64	58.762	0.770	628107.8	4097434.7	59.34	75.54	0.420	628070.4	4097505.1	59.86	55.00	23.3	628069	4097485	59.54	21.18	0.118	0.128
GEN3B	628049	4097525	59.74	152.01	30.300	0.641	628107.8	4097434.7	59.34	84.94	0.358	628070.4	4097505.1	59.86	60.38	12.0	628069	4097485	59.54	23.33	0.098	0.080
GEN3C	628049	4097525	59.74	168.79	28.341	0.488	628107.8	4097434.7	59.34	97.91	0.283	628070.4	4097505.1	59.86	67.91	11.4	628069	4097485	59.54	27.51	0.079	0.108
GEN3D	628049	4097525	59.74	223.56	52.398	0.352	628107.8	4097434.7	59.34	123.00	0.194	628070.4	4097505.1	59.86	88.17	20.7	628109	4097825	60.06	40.48	0.064	0.174
GEN3E	628049	4097525	59.74	295.16	96.575	0.224	628129	4097785	59.92	203.60	0.155	628129	4097785	59.92	117.84	38.6	628129	4097785	59.92	75.52	0.057	0.313
GEN4A	628062.3	4097523.4	59.76	146.55	62.116	0.814	628070.4	4097505.1	59.86	76.35	0.424	628070.4	4097505.1	59.86	56.17	23.8	628069	4097485	59.54	21.28	0.118	0.129
GEN4B	628062.3	4097523.4	59.76	160.16	31.924	0.676	628062.3	4097523.4	59.76	82.88	0.350	628070.4	4097505.1	59.86	61.46	12.3	628069	4097485	59.54	23.35	0.099	0.081
GEN4C	628062.3	4097523.4	59.76	176.83	29.692	0.511	628107.8	4097434.7	59.34	95.18	0.275	628070.4	4097505.1	59.86	68.81	11.6	628069	4097485	59.54	27.75	0.080	0.109
GEN4D	628062.3	4097523.4	59.76	233.80	54.800	0.368	628069	4097505	59.74	122.02	0.192	628070.4	4097505.1	59.86	89.36	20.9	628109	4097825	60.06	40.16	0.063	0.172
GEN4E	628062.3	4097523.4	59.76	311.20	101.821	0.236	628129	4097785	59.92	161.65	0.123	628070.4	4097505.1	59.86	113.86	37.3	628109	4097825	60.06	59.72	0.045	0.247
GEN5A	628069	4097505	59.74	155.34	65.842	0.863	628070.4	4097505.1	59.86	81.88	0.455	628070.4	4097505.1	59.86	56.41	23.9	628078.5	4097486.8	59.9	21.21	0.118	0.128
GEN5B	628069	4097505	59.74	167.85	33.457	0.708	628070.4	4097505.1	59.86	88.83	0.375	628070.4	4097505.1	59.86	61.24	12.2	628078.5	4097486.8	59.9	23.14	0.098	0.080
GEN5C	628069	4097605	59.69	192.78	32.371	0.557	628070.4	4097505.1	59.86	100.48	0.290	628070.4	4097505.1	59.86	68.11	11.4	628087.5	4097466.4	59.97	27.92	0.081	0.110
GEN5D	628069	4097605	59.69	249.35	58.444	0.392	628070.4	4097505.1	59.86	129.48	0.204	628070.4	4097505.1	59.86	87.39	20.5	628109	4097825	60.06	39.22	0.062	0.168
GEN5E	628069	4097605	59.69	329.86	107.928	0.251	628070.4	4097505.1	59.86	169.94	0.129	628070.4	4097505.1	59.86	111.83	36.6	628129	4097785	59.92	62.87	0.048	0.260
GEN6A	628070.4	4097505.1	59.86	159.64	67.661	0.887	628070.4	4097505.1	59.86	82.83	0.460	628070.4	4097505.1	59.86	55.41	23.5	628153	4097785.2	59.89	24.19	0.134	0.146
GEN6B	628070.4	4097505.1	59.86	171.81	34.247	0.725	628070.4	4097505.1	59.86	89.70	0.379	628070.4	4097505.1	59.86	59.89	11.9	628153	4097785.2	59.89	27.36	0.115	0.094
GEN6C	628069	4097605	59.69	204.69	34.370	0.591	628070.4	4097505.1	59.86	100.83	0.291	628070.4	4097505.1	59.86	66.37	11.1	628153	4097785.2	59.89	31.05	0.090	0.122
GEN6D	628069	4097605	59.69	259.45	60.811	0.408	628070.4	4097505.1	59.86	129.16	0.203	628070.4	4097505.1	59.86	84.52	19.8	628153	4097785.2	59.89	41.70	0.066	0.179
GEN6E	628069	4097605	59.69	341.81	111.838	0.260	628070.4	4097505.1	59.86	169.69	0.129	628070.4	4097505.1	59.86	107.95	35.3	628153	4097785.2	59.89	62.92	0.048	0.261
GEN7A	628070.4	4097505.1	59.86	157.64	66.815	0.876	628068.5	4097627.1	59.92	82.46	0.458	628087.5	4097466.4	59.97	56.60	24.0	628153	4097785.2	59.89	28.11	0.156	0.170
GEN7B	628069	4097605	59.69	181.68	36.214	0.767	628068.5	4097627.1	59.92	95.97	0.405	628087.5	4097466.4	59.97	60.82	12.1	628153	4097785.2	59.89	31.16	0.131	0.107
GEN7C	628069	4097605	59.69	210.82	35.399	0.609	628068.5	4097627.1	59.92	106.44	0.307	628087.5	4097466.4	59.97	67.65	11.4	628153	4097785.2	59.89	34.63	0.100	0.136
GEN7D	628069	4097605	59.69	251.29	58.899	0.395	628068.5	4097627.1	59.92	123.48	0.194	628087.5	4097466.4	59.97	84.86	19.9	628153	4097785.2	59.89	47.75	0.075	0.205
GEN7E	628069	4097605	59.69	327.56	107.175	0.249	628070.4	4097505.1	59.86	158.33	0.120	628087.5	4097466.4	59.97	106.16	34.7	628153	4097785.2	59.89	66.60	0.051	0.276
GEN8A	628068.5	4097627.1	59.92	159.83	67.745	0.888	628069.8	4097624.5	59.95	85.89	0.477	628087.5	4097466.4	59.97	55.24	23.4	628153	4097785.2	59.89	29.00	0.161	0.176
GEN8B	628069	4097605	59.69	185.28	36.932	0.782	628069.8	4097624.5	59.95	100.06	0.422	628087.5	4097466.4	59.97	59.12	11.8	628153	4097785.2	59.89	32.09	0.135	0.111
GEN8C	628069	4097605	59.69	210.70	35.379	0.609	628069.8	4097624.5	59.95	110.82	0.320	628087.5	4097466.4	59.97	65.54	11.0	628153	4097785.2	59.89	35.44	0.102	0.139
GEN8D	628069	4097605	59.69	250.08	58.615	0.393	628069.8	4097624.5	59.95	127.77	0.201	628087.5	4097466.4	59.97	81.67	19.1	628153	4097785.2	59.89	48.35	0.076	0.207
GEN8E	628069	4097605	59.69	326.05	106.682	0.248	628068.5	4097627.1	59.92	158.00	0.120	628087.5	4097466.4	59.97	102.47	33.5	628153	4097785.2	59.89	65.45	0.050	0.271
GEN9A	628077.9	4097609.5	59.92	178.30	75.573	0.990	628050.3	4097662.7	60.06	86.14	0.478	628062.4	4097731.2	60.88	54.48	23.1	628109	4097765	60.07	34.13	0.190	0.207
GEN9B	628077.9	4097609.5	59.92	195.57	38.983	0.825	628069.8	4097624.5	59.95	100.41	0.424	628080.7	4097739.2	60.7	59.20	11.8	628109	4097765	60.07	36.84	0.155	0.127
GEN9C	628077.9	4097609.5	59.92	217.28	36.483	0.628	628069.8	4097624.5	59.95	110.97	0.321	628080.7	4097739.2	60.7	64.58	10.8	628109	4097765	60.07	39.92	0.115	0.157
GEN9D	628077.9	4097609.5	59.92	257.66	60.391	0.405	628069.8	4097624.5	59.95	127.46	0.201	628080.7	4097739.2	60.7	74.86	17.5	628153	4097785.2	59.89	49.55	0.078	0.212
GEN9E	628077.9	4097609.5	59.92	332.47	108.783	0.253	628069.8	4097624.5	59.95	158.99	0.121	628062.4	4097731.2	60.88	91.93	30.1	628153	4097785.2	59.89	64.71	0.049	0.268
GEN10A	628077.9	4097609.5	59.92	189.75	80.426	1.054	628050.3	40														

General Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr Averaging Period						3-Hr Averaging Period					8-Hr Averaging Period					24-Hr Averaging Period					
	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	PM _{2.5/10}
	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)
GEN12E	628077.9	4097609.4	59.92	342.18	111.958	0.260	628050.3	4097662.7	60.06	151.35	0.115	628044	4097723.2	60.91	102.46	33.5	628050.3	4097662.7	60.06	60.70	0.046	0.251
GEN13A	628077.9	4097609.4	59.92	163.11	69.132	0.906	628080.7	4097739.2	60.7	86.29	0.479	628044	4097723.2	60.91	61.21	25.9	628109	4097765	60.07	39.66	0.220	0.240
GEN13B	628077.9	4097609.4	59.92	177.65	35.412	0.750	628059.4	4097644.9	60.02	92.50	0.390	628044	4097723.2	60.91	66.07	13.2	628109	4097765	60.07	42.29	0.178	0.146
GEN13C	628077.9	4097609.4	59.92	193.80	32.542	0.560	628059.4	4097644.9	60.02	100.61	0.291	628044	4097723.2	60.91	71.31	12.0	628109	4097765	60.07	45.03	0.130	0.177
GEN13D	628077.9	4097609.4	59.92	228.90	53.651	0.360	628059.4	4097644.9	60.02	119.58	0.188	628044	4097723.2	60.91	82.72	19.4	628109	4097765	60.07	50.74	0.080	0.218
GEN13E	628077.9	4097609.4	59.92	298.77	97.756	0.227	628059.4	4097644.9	60.02	150.75	0.115	628044	4097723.2	60.91	103.78	34.0	628109	4097765	60.07	61.59	0.047	0.255
GEN14A	628087.9	4097591	59.76	134.96	57.201	0.750	628044	4097723.2	60.91	86.84	0.482	628083.9	4097743.3	60.71	56.83	24.1	628109	4097765	60.07	40.32	0.224	0.244
GEN14B	628087.9	4097591	59.76	145.74	29.051	0.615	628044	4097723.2	60.91	93.07	0.393	628083.9	4097743.3	60.71	60.17	12.0	628109	4097765	60.07	42.72	0.180	0.147
GEN14C	628087.9	4097591	59.76	159.22	26.734	0.460	628044	4097723.2	60.91	102.71	0.297	628083.9	4097743.3	60.71	68.04	11.4	628109	4097765	60.07	45.57	0.132	0.179
GEN14D	628087.9	4097591	59.76	185.81	43.551	0.292	628044	4097723.2	60.91	125.06	0.197	628069	4097745	61.08	81.35	19.1	628109	4097765	60.07	53.94	0.085	0.231
GEN14E	628087.9	4097591	59.76	256.62	83.963	0.195	628044	4097723.2	60.91	157.20	0.119	628069	4097745	61.08	98.44	32.2	628109	4097765	60.07	66.12	0.050	0.274
GEN15A	628071	4097582.2	59.98	130.15	55.163	0.723	628044	4097723.2	60.91	85.09	0.473	628044	4097723.2	60.91	58.14	24.6	628118.1	4097764	59.94	39.84	0.221	0.241
GEN15B	628071	4097582.2	59.98	142.00	28.306	0.599	628044	4097723.2	60.91	91.16	0.385	628044	4097723.2	60.91	61.94	12.3	628118.1	4097764	59.94	42.18	0.178	0.146
GEN15C	628071	4097582.2	59.98	155.20	26.060	0.448	628044	4097723.2	60.91	101.34	0.293	628044	4097723.2	60.91	68.34	11.5	628118.1	4097764	59.94	45.19	0.131	0.178
GEN15D	628071	4097582.2	59.98	182.45	42.763	0.287	628044	4097723.2	60.91	124.74	0.196	628044	4097723.2	60.91	83.45	19.6	628089	4097765	60.19	54.19	0.085	0.232
GEN15E	628071	4097582.2	59.98	253.32	82.885	0.193	628044	4097723.2	60.91	156.68	0.119	628044	4097723.2	60.91	101.70	33.3	628118.1	4097764	59.94	66.09	0.050	0.274
GEN16A	628087.4	4097591.9	59.76	126.82	53.754	0.704	628044	4097723.2	60.91	84.06	0.467	628044	4097723.2	60.91	58.33	24.7	628118.1	4097764	59.94	39.71	0.221	0.240
GEN16B	628071	4097582.2	59.98	137.56	27.419	0.580	628044	4097723.2	60.91	90.14	0.380	628044	4097723.2	60.91	62.36	12.4	628118.1	4097764	59.94	42.03	0.177	0.145
GEN16C	628071	4097582.2	59.98	149.15	25.043	0.431	628044	4097723.2	60.91	100.25	0.290	628044	4097723.2	60.91	69.24	11.6	628089	4097765	60.19	45.51	0.131	0.179
GEN16D	628087.4	4097591.9	59.76	177.62	41.632	0.279	628044	4097723.2	60.91	124.49	0.196	628044	4097723.2	60.91	84.91	19.9	628089	4097765	60.19	55.02	0.087	0.236
GEN16E	628071	4097582.2	59.98	247.16	80.869	0.188	628044	4097723.2	60.91	155.76	0.118	628044	4097723.2	60.91	103.28	33.8	628089	4097765	60.19	66.74	0.051	0.276
GEN17A	628071	4097582.2	59.98	124.16	52.626	0.690	628044	4097723.2	60.91	82.19	0.457	628044	4097723.2	60.91	57.99	24.6	628089	4097765	60.19	39.70	0.221	0.240
GEN17B	628071	4097582.2	59.98	133.60	26.630	0.564	628044	4097723.2	60.91	88.55	0.374	628044	4097723.2	60.91	62.59	12.5	628089	4097765	60.19	42.18	0.178	0.146
GEN17C	628071	4097582.2	59.98	147.27	24.728	0.425	628044	4097723.2	60.91	97.98	0.283	628044	4097723.2	60.91	70.20	11.8	628089	4097765	60.19	46.57	0.134	0.183
GEN17D	628071	4097582.2	59.98	178.69	41.882	0.281	628044	4097723.2	60.91	122.07	0.192	628044	4097723.2	60.91	86.58	20.3	628089	4097765	60.19	56.81	0.089	0.244
GEN17E	628071	4097582.2	59.98	237.15	77.593	0.180	628044	4097723.2	60.91	152.28	0.116	628044	4097723.2	60.91	104.41	34.2	628089	4097765	60.19	68.51	0.052	0.284
GEN18A	628049	4097545	59.86	127.92	54.218	0.711	628044	4097723.2	60.91	80.92	0.449	628044	4097723.2	60.91	57.45	24.4	628089	4097765	60.19	39.64	0.220	0.240
GEN18B	628049	4097545	59.86	137.21	27.351	0.579	628044	4097723.2	60.91	87.80	0.371	628044	4097723.2	60.91	62.41	12.4	628089	4097765	60.19	42.32	0.179	0.146
GEN18C	628049	4097545	59.86	149.92	25.174	0.433	628044	4097723.2	60.91	97.10	0.280	628044	4097723.2	60.91	70.20	11.8	628089	4097765	60.19	46.90	0.135	0.185
GEN18D	628049	4097545	59.86	182.21	42.708	0.287	628044	4097723.2	60.91	120.36	0.189	628044	4097723.2	60.91	86.85	20.4	628089	4097765	60.19	57.50	0.090	0.247
GEN18E	628049	4097545	59.86	239.94	78.508	0.182	628044	4097723.2	60.91	149.71	0.114	628044	4097723.2	60.91	104.24	34.1	628089	4097765	60.19	68.98	0.052	0.286
GEN19A	628049	4097545	59.86	143.63	60.879	0.798	628089	4097765	60.19	78.36	0.435	628044	4097723.2	60.91	55.24	23.4	628089	4097765	60.19	39.83	0.221	0.241
GEN19B	628049	4097545	59.86	154.03	30.703	0.650	628089	4097765	60.19	86.24	0.364	628044	4097723.2	60.91	61.08	12.2	628089	4097765	60.19	43.12	0.182	0.149
GEN19C	628049	4097545	59.86	169.73	28.499	0.490	628089	4097765	60.19	97.79	0.282	628044	4097723.2	60.91	69.02	11.6	628089	4097765	60.19	48.24	0.139	0.190
GEN19D	628049	4097545	59.86	210.06	49.236	0.330	628089	4097765	60.19	122.09	0.192	628044	4097723.2	60.91	85.29	20.0	628089	4097765	60.19	59.18	0.093	0.254
GEN19E	628049	4097545	59.86	277.23	90.708	0.211	628089	4097765	60.19	148.92	0.113	628089	4097765	60.19	103.13	33.7	628089	4097765	60.19	70.49	0.054	0.292
GEN20A	628049	4097545	59.86	148.58	62.977	0.825	628089	4097765	60.19	79.44	0.441	628069	4097745	61.08	54.92	23.3	628089	4097765	60.19	39.81	0.221	0.241
GEN20B	628049	4097545	59.86	159.50	31.793	0.673	628089	4097765	60.19	88.09	0.372	628044	4097723.2	60.91	60.52	12.1	628089	4097765	60.19	43.32	0.183	0.149
GEN20C	628049	4097545	59.86	176.48	29.634	0.510	628089	4097765	60.19	100.20	0.289	628044	4097723.2	60.91	68.65	11.5	628089	4097765	60.19	48.74	0.141	0.192
GEN20D	628049	4097545	59.86	221.13	51.829	0.348	628089	4097765	60.19	125.21	0.197	628089	4097765	60.19	85.14	20.0	628089	4097765	60.19	59.79	0.094	0.256
GEN20E	628049	4097545	59.86	290.62	95.087	0.221	628089	4097765	60.19	151.62	0.115	628089	4097765	60.19	103.74	33.9	628089	4097765	60.19	70.78	0.054	0.293
GEN21A	628049	4097545	59.86	150.57	63.817	0.836	628089	4097765	60.19	81.22	0.451	628069	4097745	61.08	56.30	23.9	628089	4097765	60.19	39.26	0.218	0.238
GEN21B	628049	4097545	59.86	163.35	32.561	0.689	628089	4097765	60.19	90.28	0.381	628069	4097745	61.08	62.89	12.5	628089	4097765	60.19	43.34	0.183	0.150
GEN21C	628049	4097545	59.86	181.22	30.429	0.523	628089	4097765	60.19	103.71	0.300	628069	4097745	61.08	71.96	12.1	628089	4097765	60.19	49.20	0.142	0.194
GEN21D	628049	4097545	59.86	233.66	54.765	0.368	628089	4097765	60.19	128.68	0.202	628089	4097765	60.19	86.80	20.3	628089	4097765	60.19	59.86	0.094	0.257
GEN21E	628049	4097545	59.86	308.77	101.027	0.235	628049	4097545	59.86	155.73	0.118	628089	4097765	60.19	105.09	34.4	628089	4097765	60.19	70.33	0.053	0.291
GEN22A	628049	4097545																				

General Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr Averaging Period						3-Hr Averaging Period					8-Hr Averaging Period					24-Hr Averaging Period					
	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	PM _{2.5/10}
	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)
GEN24D	628062.3	4097523.4	59.76	218.13	51.127	0.343	628089	4097765	60.19	130.29	0.205	628089	4097765	60.19	88.70	20.8	628089	4097765	60.19	61.44	0.097	0.263
GEN24E	628062.3	4097523.4	59.76	287.85	94.181	0.219	628049	4097525	59.74	166.15	0.126	628089	4097765	60.19	109.30	35.8	628089	4097765	60.19	70.12	0.053	0.290
GEN25A	628009	4097605	60.1	115.18	48.819	0.640	628089	4097765	60.19	80.09	0.445	628069	4097745	61.08	56.94	24.1	628089	4097765	60.19	41.02	0.228	0.248
GEN25B	628009	4097605	60.1	131.35	26.183	0.554	628089	4097765	60.19	91.69	0.387	628069	4097745	61.08	64.63	12.9	628089	4097765	60.19	46.65	0.197	0.161
GEN25C	628009	4097605	60.1	153.32	25.745	0.443	628089	4097765	60.19	105.51	0.305	628089	4097765	60.19	73.06	12.3	628089	4097765	60.19	52.88	0.153	0.208
GEN25D	628029	4097545	59.63	202.85	47.545	0.319	628029	4097665	60.7	128.92	0.203	628089	4097765	60.19	90.42	21.2	628089	4097765	60.19	62.26	0.098	0.267
GEN25E	628029	4097545	59.63	259.58	84.933	0.197	628089	4097765	60.19	156.94	0.119	628089	4097765	60.19	111.51	36.5	628089	4097765	60.19	70.22	0.053	0.291
GEN26A	628032.1	4097698.3	60.55	115.52	48.963	0.642	628029	4097665	60.7	81.32	0.452	628069	4097745	61.08	57.34	24.3	628089	4097765	60.19	41.65	0.231	0.252
GEN26B	628032.1	4097698.3	60.55	134.60	26.831	0.568	628029	4097665	60.7	92.71	0.391	628089	4097765	60.19	65.44	13.0	628089	4097765	60.19	47.39	0.200	0.164
GEN26C	628032.1	4097698.3	60.55	157.10	26.379	0.454	628089	4097765	60.19	105.37	0.304	628089	4097765	60.19	74.14	12.4	628089	4097765	60.19	53.31	0.154	0.210
GEN26D	628032.1	4097698.3	60.55	199.43	46.743	0.314	628029	4097665	60.7	129.53	0.204	628089	4097765	60.19	91.53	21.5	628089	4097765	60.19	62.45	0.098	0.268
GEN26E	628032.1	4097698.3	60.55	245.30	80.261	0.186	628089	4097765	60.19	160.55	0.122	628089	4097765	60.19	112.79	36.9	628089	4097765	60.19	70.20	0.053	0.291
GEN27A	628509	4097665	58.73	112.01	47.473	0.622	628489	4097705	58.76	88.67	0.493	628489	4097665	58.73	57.05	24.2	628489	4097585	58.79	24.91	0.138	0.151
GEN27B	628509	4097665	58.73	128.26	25.566	0.541	628489	4097625	58.69	101.94	0.430	628489	4097665	58.73	64.56	12.9	628489	4097585	58.79	30.74	0.130	0.106
GEN27C	628509	4097665	58.73	151.10	25.371	0.436	628489	4097625	58.69	118.56	0.342	628489	4097665	58.73	73.93	12.4	628489	4097585	58.79	34.44	0.099	0.136
GEN27D	628509	4097665	58.73	194.73	45.641	0.306	628489	4097625	58.69	149.13	0.235	628489	4097665	58.73	90.49	21.2	628489	4097585	58.79	41.68	0.066	0.179
GEN27E	628509	4097665	58.73	240.92	78.826	0.183	628489	4097605	58.7	185.08	0.141	628489	4097665	58.73	106.39	34.8	628489	4097585	58.79	46.55	0.035	0.193
GEN28A	628509	4097665	58.73	116.69	49.461	0.648	628489	4097685	58.77	94.70	0.526	628489	4097665	58.73	58.63	24.9	628489	4097585	58.79	27.02	0.150	0.164
GEN28B	628509	4097665	58.73	133.29	26.568	0.562	628489	4097685	58.77	104.94	0.443	628489	4097665	58.73	65.93	13.1	628489	4097585	58.79	32.18	0.136	0.111
GEN28C	628509	4097665	58.73	156.15	26.219	0.451	628489	4097685	58.77	121.51	0.351	628489	4097665	58.73	76.17	12.8	628489	4097585	58.79	36.02	0.104	0.142
GEN28D	628509	4097665	58.73	202.59	47.485	0.319	628489	4097685	58.77	154.29	0.243	628489	4097665	58.73	94.72	22.2	628489	4097585	58.79	41.56	0.065	0.178
GEN28E	628509	4097665	58.73	252.85	82.730	0.192	628489	4097705	58.76	187.19	0.142	628489	4097665	58.73	113.09	37.0	628489	4097585	58.79	46.49	0.035	0.193
GEN29A	628509	4097665	58.73	118.40	50.183	0.658	628489	4097685	58.77	101.33	0.563	628489	4097665	58.73	59.65	25.3	628489	4097585	58.79	28.15	0.156	0.170
GEN29B	628509	4097665	58.73	132.12	26.336	0.558	628489	4097685	58.77	112.20	0.473	628489	4097665	58.73	66.42	13.2	628489	4097585	58.79	31.53	0.133	0.109
GEN29C	628509	4097665	58.73	153.75	25.816	0.444	628489	4097685	58.77	128.92	0.372	628489	4097665	58.73	76.56	12.9	628489	4097585	58.79	35.47	0.102	0.140
GEN29D	628509	4097665	58.73	197.78	46.356	0.311	628489	4097685	58.77	165.01	0.260	628489	4097665	58.73	96.29	22.6	628489	4097585	58.79	41.24	0.065	0.177
GEN29E	628489	4097685	58.77	257.35	84.202	0.196	628489	4097685	58.77	204.29	0.155	628489	4097665	58.73	116.65	38.2	628153	4097785.2	59.89	51.25	0.039	0.212
GEN30A	628489	4097685	58.77	119.39	50.603	0.663	628489	4097685	58.77	103.27	0.574	628489	4097665	58.73	59.96	25.4	628489	4097585	58.79	28.12	0.156	0.170
GEN30B	628489	4097685	58.77	131.85	26.283	0.556	628489	4097685	58.77	113.99	0.481	628489	4097665	58.73	66.49	13.3	628153	4097785.2	59.89	31.42	0.133	0.108
GEN30C	628509	4097665	58.73	153.00	25.691	0.442	628489	4097685	58.77	130.30	0.376	628489	4097665	58.73	76.38	12.8	628153	4097785.2	59.89	36.95	0.107	0.145
GEN30D	628489	4097685	58.77	197.60	46.315	0.311	628489	4097685	58.77	166.76	0.262	628489	4097665	58.73	96.37	22.6	628153	4097785.2	59.89	48.04	0.076	0.206
GEN30E	628489	4097685	58.77	260.90	85.366	0.198	628489	4097685	58.77	206.29	0.157	628489	4097665	58.73	116.89	38.2	628153	4097785.2	59.89	63.71	0.048	0.264
GEN31A	628070.4	4097505.1	59.86	134.72	57.099	0.748	628492.5	4097577.5	58.71	78.25	0.435	628153	4097785.2	59.89	52.70	22.3	628152.3	4097784.8	59.9	37.51	0.208	0.227
GEN31B	628070.4	4097505.1	59.86	150.74	30.048	0.636	628492.5	4097577.5	58.71	87.29	0.368	628153	4097785.2	59.89	60.69	12.1	628152.3	4097784.8	59.9	42.08	0.178	0.145
GEN31C	628070.4	4097505.1	59.86	168.94	28.366	0.488	628492.5	4097577.5	58.71	100.25	0.290	628153	4097785.2	59.89	70.04	11.8	628152.3	4097784.8	59.9	47.32	0.137	0.186
GEN31D	628070.4	4097505.1	59.86	212.65	49.842	0.335	628492.5	4097577.5	58.71	126.54	0.199	628153	4097785.2	59.89	89.87	21.1	628152.3	4097784.8	59.9	57.80	0.091	0.248
GEN31E	628070.4	4097505.1	59.86	256.85	84.039	0.195	628509	4097645	58.69	161.72	0.123	628153	4097785.2	59.89	117.34	38.4	628152.3	4097784.8	59.9	76.88	0.058	0.318
GEN32A	628070.4	4097505.1	59.86	137.15	58.129	0.762	628492.5	4097577.5	58.71	77.23	0.429	628152.3	4097784.8	59.9	64.24	27.2	628152.3	4097784.8	59.9	43.64	0.242	0.264
GEN32B	628070.4	4097505.1	59.86	152.39	30.376	0.643	628153	4097785.2	59.89	85.84	0.362	628152.3	4097784.8	59.9	71.95	14.3	628152.3	4097784.8	59.9	48.95	0.207	0.169
GEN32C	628070.4	4097505.1	59.86	170.86	28.689	0.493	628492.5	4097577.5	58.71	98.31	0.284	628152.3	4097784.8	59.9	79.84	13.4	628152.3	4097784.8	59.9	55.10	0.159	0.217
GEN32D	628070.4	4097505.1	59.86	213.06	49.938	0.335	628492.5	4097577.5	58.71	122.87	0.193	628153	4097785.2	59.89	97.26	22.8	628152.3	4097784.8	59.9	66.90	0.105	0.287
GEN32E	628087.5	4097466.4	59.97	257.95	84.400	0.196	628509	4097645	58.69	156.42	0.119	628153	4097785.2	59.89	121.54	39.8	628152.3	4097784.8	59.9	82.60	0.063	0.342
GEN33A	628070.4	4097505.1	59.86	129.00	54.676	0.717	628153	4097785.2	59.89	85.70	0.476	628153	4097785.2	59.89	66.04	28.0	628152.3	4097784.8	59.9	44.94	0.250	0.272
GEN33B	628070.4	4097505.1	59.86	139.47	27.801	0.589	628153	4097785.2	59.89	94.37	0.398	628153	4097785.2	59.89	72.11	14.4	628152.3	4097784.8	59.9	49.10	0.207	0.169
GEN33C	628070.4	4097505.1	59.86	152.75	25.648	0.441	628153	4097785.2	59.89	104.36	0.301	628153	4097785.2	59.89	79.52	13.4	628152.3	4097784.8	59.9	53.75	0.155	0.212
GEN33D	628070.4	4097505.1	59.86	201.93	47.328	0.318	628153	4097785.2	59.89	124.50	0.196	628153	4097785.2	59.89	92.80	21.7	628152.3	4097784.8	59.9	62.82	0.099	0.269
GEN33E	628070.4	4097505.1	59.86	264.05	86.3																	

General Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr Averaging Period						3-Hr Averaging Period					8-Hr Averaging Period					24-Hr Averaging Period					
	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	PM _{2.5/10}
	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)
GEN36C	628069.8	4097624.5	59.95	174.87	29.362	0.505	628153	4097785.2	59.89	99.74	0.288	628152.3	4097784.8	59.9	72.59	12.2	628153	4097785.2	59.89	48.19	0.139	0.190
GEN36D	628077.9	4097609.5	59.92	220.33	51.642	0.347	628153	4097785.2	59.89	114.06	0.179	628152.3	4097784.8	59.9	84.41	19.8	628153	4097785.2	59.89	55.45	0.087	0.238
GEN36E	628077.9	4097609.5	59.92	296.80	97.112	0.226	628050.3	4097662.7	60.06	141.81	0.108	628152.3	4097784.8	59.9	100.77	33.0	628153	4097785.2	59.89	66.33	0.050	0.275
GEN37A	628059.4	4097644.9	60.02	153.09	64.889	0.850	628050.3	4097662.7	60.06	85.86	0.477	628153	4097785.2	59.89	56.61	24.0	628153	4097785.2	59.89	40.76	0.226	0.247
GEN37B	628059.4	4097644.9	60.02	165.61	33.012	0.699	628050.3	4097662.7	60.06	92.60	0.391	628153	4097785.2	59.89	60.84	12.1	628153	4097785.2	59.89	43.97	0.186	0.152
GEN37C	628059.4	4097644.9	60.02	181.32	30.446	0.524	628050.3	4097662.7	60.06	100.16	0.289	628153	4097785.2	59.89	65.98	11.1	628153	4097785.2	59.89	47.56	0.137	0.187
GEN37D	628077.9	4097609.4	59.92	222.11	52.059	0.349	628050.3	4097662.7	60.06	119.30	0.188	628153	4097785.2	59.89	75.54	17.7	628153	4097785.2	59.89	54.28	0.085	0.233
GEN37E	628077.9	4097609.4	59.92	303.26	99.225	0.230	628050.3	4097662.7	60.06	159.92	0.122	628153	4097785.2	59.89	89.10	29.2	628153	4097785.2	59.89	64.52	0.049	0.267
GEN38A	628059.4	4097644.9	60.02	160.10	67.857	0.889	628050.3	4097662.7	60.06	87.56	0.486	628153	4097785.2	59.89	55.40	23.5	628153	4097785.2	59.89	40.61	0.226	0.246
GEN38B	628059.4	4097644.9	60.02	172.52	34.389	0.728	628050.3	4097662.7	60.06	94.38	0.398	628153	4097785.2	59.89	59.83	11.9	628153	4097785.2	59.89	43.69	0.184	0.151
GEN38C	628059.4	4097644.9	60.02	186.53	31.321	0.539	628050.3	4097662.7	60.06	101.99	0.295	628153	4097785.2	59.89	64.53	10.8	628153	4097785.2	59.89	47.08	0.136	0.185
GEN38D	628059.4	4097644.9	60.02	225.44	52.840	0.355	628050.3	4097662.7	60.06	121.80	0.192	628153	4097785.2	59.89	73.62	17.3	628153	4097785.2	59.89	53.63	0.084	0.230
GEN38E	628059.4	4097644.9	60.02	309.04	101.117	0.235	628050.3	4097662.7	60.06	163.44	0.124	628153	4097785.2	59.89	86.51	28.3	628153	4097785.2	59.89	63.62	0.048	0.263
GEN39A	628059.4	4097644.9	60.02	162.15	68.727	0.901	628050.3	4097662.7	60.06	86.19	0.479	628153	4097785.2	59.89	53.35	22.6	628153	4097785.2	59.89	39.91	0.222	0.242
GEN39B	628059.4	4097644.9	60.02	174.68	34.819	0.737	628050.3	4097662.7	60.06	92.91	0.392	628153	4097785.2	59.89	57.28	11.4	628153	4097785.2	59.89	42.76	0.180	0.148
GEN39C	628059.4	4097644.9	60.02	188.74	31.692	0.545	628050.3	4097662.7	60.06	100.31	0.290	628153	4097785.2	59.89	61.51	10.3	628153	4097785.2	59.89	45.92	0.133	0.181
GEN39D	628059.4	4097644.9	60.02	228.80	53.627	0.360	628050.3	4097662.7	60.06	120.13	0.189	628153	4097785.2	59.89	69.66	16.3	628153	4097785.2	59.89	52.00	0.082	0.223
GEN39E	628059.4	4097644.9	60.02	316.72	103.629	0.241	628050.3	4097662.7	60.06	161.01	0.122	628044	4097723.2	60.91	85.66	28.0	628153	4097785.2	59.89	62.10	0.047	0.257
GEN40A	628041.2	4097680.5	60.18	134.04	56.814	0.745	628080.7	4097739.2	60.7	79.38	0.441	628044	4097723.2	60.91	50.84	21.5	628153	4097785.2	59.89	30.92	0.172	0.187
GEN40B	628041.2	4097680.5	60.18	144.85	28.874	0.611	628080.7	4097739.2	60.7	84.86	0.358	628044	4097723.2	60.91	54.84	10.9	628153	4097785.2	59.89	32.72	0.138	0.113
GEN40C	628041.2	4097680.5	60.18	160.28	26.913	0.463	628080.7	4097739.2	60.7	92.64	0.268	628044	4097723.2	60.91	60.81	10.2	628153	4097785.2	59.89	34.71	0.100	0.137
GEN40D	628041.2	4097680.5	60.18	200.45	46.983	0.315	628080.7	4097739.2	60.7	113.56	0.179	628044	4097723.2	60.91	75.28	17.6	628153	4097785.2	59.89	40.45	0.064	0.173
GEN40E	628087.4	4097591.9	59.76	268.84	87.964	0.204	628077.9	4097609.4	59.92	153.97	0.117	628044	4097723.2	60.91	94.67	31.0	628153	4097785.2	59.89	49.45	0.038	0.205
GEN41A	628041.2	4097680.5	60.18	133.79	56.708	0.743	628080.7	4097739.2	60.7	80.92	0.449	628044	4097723.2	60.91	49.88	21.1	628153	4097785.2	59.89	30.00	0.167	0.182
GEN41B	628041.2	4097680.5	60.18	145.00	28.904	0.612	628080.7	4097739.2	60.7	86.95	0.367	628044	4097723.2	60.91	54.23	10.8	628153	4097785.2	59.89	31.71	0.134	0.109
GEN41C	628041.2	4097680.5	60.18	160.10	26.882	0.462	628080.7	4097739.2	60.7	95.33	0.275	628083.9	4097743.3	60.71	60.66	10.2	628153	4097785.2	59.89	33.64	0.097	0.132
GEN41D	628041.2	4097680.5	60.18	203.05	47.591	0.319	628080.7	4097739.2	60.7	117.60	0.185	628044	4097723.2	60.91	75.05	17.6	628062.4	4097731.2	60.88	41.02	0.065	0.176
GEN41E	628041.2	4097680.5	60.18	259.20	84.809	0.197	628069	4097605	59.69	149.83	0.114	628044	4097723.2	60.91	94.32	30.9	628062.4	4097731.2	60.88	49.41	0.038	0.205
GEN42A	628041.2	4097680.5	60.18	131.80	55.865	0.732	628080.7	4097739.2	60.7	81.88	0.455	628044	4097723.2	60.91	49.19	20.8	628153	4097785.2	59.89	29.53	0.164	0.179
GEN42B	628041.2	4097680.5	60.18	143.68	28.640	0.606	628080.7	4097739.2	60.7	88.38	0.373	628044	4097723.2	60.91	53.74	10.7	628153	4097785.2	59.89	31.17	0.132	0.108
GEN42C	628041.2	4097680.5	60.18	158.04	26.537	0.456	628080.7	4097739.2	60.7	97.30	0.281	628069	4097745	61.08	61.72	10.4	628062.4	4097731.2	60.88	33.74	0.097	0.133
GEN42D	628041.2	4097680.5	60.18	201.54	47.238	0.317	628080.7	4097739.2	60.7	120.81	0.190	628069	4097745	61.08	75.69	17.7	628062.4	4097731.2	60.88	41.71	0.066	0.179
GEN42E	628077.9	4097609.5	59.92	261.90	85.692	0.199	628087.4	4097591.9	59.76	150.32	0.114	628044	4097723.2	60.91	93.62	30.6	628062.4	4097731.2	60.88	50.19	0.038	0.208
GEN43A	628069	4097605	59.69	126.42	53.583	0.702	628080.7	4097739.2	60.7	82.74	0.460	628069	4097745	61.08	50.85	21.6	628153	4097785.2	59.89	28.49	0.158	0.173
GEN43B	628069	4097605	59.69	138.72	27.651	0.585	628080.7	4097739.2	60.7	89.94	0.380	628069	4097745	61.08	55.22	11.0	628062.4	4097731.2	60.88	30.42	0.128	0.105
GEN43C	628069	4097605	59.69	152.18	25.553	0.440	628080.7	4097739.2	60.7	100.22	0.289	628069	4097745	61.08	65.22	11.0	628062.4	4097731.2	60.88	34.19	0.099	0.135
GEN43D	628069	4097605	59.69	202.10	47.368	0.318	628080.7	4097739.2	60.7	124.87	0.196	628069	4097745	61.08	79.89	18.7	628062.4	4097731.2	60.88	42.33	0.067	0.181
GEN43E	628069	4097605	59.69	269.01	88.018	0.204	628069	4097605	59.69	154.71	0.118	628069	4097745	61.08	95.69	31.3	628062.4	4097731.2	60.88	50.68	0.039	0.210
GEN44A	628087.4	4097591.9	59.76	126.98	53.822	0.705	628080.7	4097739.2	60.7	82.76	0.460	628069	4097745	61.08	51.46	21.8	628153	4097785.2	59.89	28.15	0.156	0.170
GEN44B	628087.4	4097591.9	59.76	139.13	27.733	0.587	628080.7	4097739.2	60.7	90.46	0.382	628069	4097745	61.08	56.26	11.2	628062.4	4097731.2	60.88	30.43	0.128	0.105
GEN44C	628087.4	4097591.9	59.76	153.10	25.707	0.442	628080.7	4097739.2	60.7	101.57	0.293	628069	4097745	61.08	66.61	11.2	628062.4	4097731.2	60.88	34.40	0.099	0.135
GEN44D	628087.4	4097591.9	59.76	205.68	48.209	0.324	628080.7	4097739.2	60.7	126.29	0.199	628069	4097745	61.08	81.67	19.1	628062.4	4097731.2	60.88	42.45	0.067	0.182
GEN44E	628087.4	4097591.9	59.76	274.31	89.751	0.208	628069	4097605	59.69	158.65	0.121	628069	4097745	61.08	97.48	31.9	628062.4	4097731.2	60.88	50.76	0.039	0.210
GEN45A	628071	4097582.2	59.98	121.42	51.465	0.674	628080.7	4097739.2	60.7	81.83	0.455	628069	4097745	61.08	52.70	22.3	628089	4097765	60.19	27.69	0.154	0.168
GEN45B	628071	4097582.2	59.98	133.57	26.625	0.564	628080.7	4097739.2	60.7	89.38	0.377	628069	4097745	61.08	58.11	11.6	628089	4097765	60.19	30.31	0.128	0.105
GEN45C	628071	4097582.2	59.98																			

General Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr Averaging Period						3-Hr Averaging Period					8-Hr Averaging Period					24-Hr Averaging Period					
	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	CO	X coordinate	Y coordinate	Elevation	Maximum Unitized Concentration	SO ₂	PM _{2.5/10}
	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	m	m	meters	(µg/m ³)	(µg/m ³)	(µg/m ³)
GEN48B	628049	4097545	59.86	143.27	28.559	0.605	628044	4097723.2	60.91	93.99	0.397	628389	4097845	59.22	68.30	13.6	628389	4097845	59.22	50.79	0.214	0.175
GEN48C	628049	4097545	59.86	162.65	27.310	0.470	628044	4097723.2	60.91	108.77	0.314	628389	4097845	59.22	77.97	13.1	628389	4097845	59.22	58.38	0.169	0.230
GEN48D	628049	4097545	59.86	204.71	47.980	0.322	628369	4097845	59.22	138.68	0.218	628389	4097845	59.22	100.19	23.5	628389	4097845	59.22	75.48	0.119	0.324
GEN48E	628389	4097845	59.22	252.75	82.697	0.192	628369	4097845	59.22	180.45	0.137	628389	4097845	59.22	124.27	40.7	628389	4097845	59.22	94.90	0.072	0.393
GEN49A	628369	4097845	59.22	118.58	50.259	0.659	628369	4097845	59.22	83.71	0.465	628409	4097845	59.24	61.90	26.2	628389	4097845	59.22	40.06	0.223	0.243
GEN49B	628369	4097845	59.22	131.17	26.146	0.554	628044	4097723.2	60.91	95.34	0.402	628409	4097845	59.24	68.81	13.7	628389	4097845	59.22	51.55	0.218	0.178
GEN49C	628369	4097845	59.22	152.16	25.550	0.439	628389	4097845	59.22	110.96	0.320	628409	4097845	59.24	79.29	13.3	628389	4097845	59.22	60.19	0.174	0.237
GEN49D	628389	4097845	59.22	195.20	45.751	0.307	628389	4097845	59.22	144.13	0.227	628409	4097845	59.24	100.53	23.6	628389	4097845	59.22	78.06	0.123	0.335
GEN49E	628389	4097845	59.22	253.02	82.785	0.192	628389	4097845	59.22	185.44	0.141	628389	4097845	59.22	124.54	40.7	628389	4097845	59.22	98.22	0.075	0.407
GEN50A	628429	4097805	59.04	118.38	50.176	0.658	628429	4097805	59.04	86.58	0.481	628429	4097805	59.04	70.04	29.7	628389	4097845	59.22	39.87	0.221	0.241
GEN50B	628369	4097845	59.22	131.13	26.139	0.553	628429	4097805	59.04	95.76	0.404	628429	4097805	59.04	76.84	15.3	628389	4097845	59.22	52.53	0.222	0.181
GEN50C	628369	4097845	59.22	152.24	25.563	0.440	628389	4097845	59.22	111.82	0.323	628429	4097805	59.04	88.32	14.8	628389	4097845	59.22	61.66	0.178	0.243
GEN50D	628429	4097805	59.04	196.31	46.012	0.309	628449	4097785	59	160.42	0.252	628429	4097805	59.04	113.20	26.5	628389	4097845	59.22	80.14	0.126	0.344
GEN50E	628409	4097805	59.11	260.49	85.231	0.198	628449	4097785	59	213.12	0.162	628429	4097805	59.04	138.56	45.3	628389	4097845	59.22	100.74	0.077	0.417
LSGEN1F	628087.9	4097591	59.76	220.19	32.839	0.303	628044	4097723.2	60.91	137.91	0.190	628109	4097765	60.07	102.17	15.2	628109	4097765	60.07	79.64	0.110	0.245
LSGEN2F	628388.9	4097748.6	59.13	291.30	43.444	0.401	628420	4097697.3	59.01	227.99	0.314	628388.9	4097748.6	59.13	146.65	21.9	628388.9	4097748.6	59.13	95.84	0.132	0.295
SEC1G	628125.5	4097891	61.09	874.17	55.771	0.374	628127.1	4097897.3	61.26	621.60	0.266	628127.1	4097897.3	61.26	504.97	32.2	628127.1	4097897.3	61.26	169.02	0.072	1.176

1. All pollutant-specific emission concentrations are calculated are based on the ratio of the maximum hourly emission rate (converted to g/s) of the respective pollutant to the modeled emission rate (1 g/s).
2. All X and Y coordinates refer to the coordinates of the receptor which experiences the maximum unitized concentration.

Refined 1-Hr NO₂ Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr CAAQS				1-Hr NAAQS			
	X coordinate	Y coordinate	Elevation	Total Concentration	X coordinate	Y coordinate	Elevation	Total Concentration
	m	m	meters	(µg/m ³)	m	m	meters	(µg/m ³)
GEN1A	628107.8	4097434.7	59.34	252.68	628107.8	4097434.7	59.34	155.61
GEN1B	628107.8	4097434.7	59.34	242.37	628107.8	4097434.7	59.34	153.43
GEN1C	628118.5	4097417.8	59.2	228.78	628107.8	4097434.7	59.34	150.81
GEN1D	628107.8	4097434.7	59.34	219.71	628107.8	4097434.7	59.34	152.42
GEN1E	628107.8	4097434.7	59.34	234.26	628107.8	4097434.7	59.34	166.39
GEN2A	628086.6	4097468.5	59.95	253.58	628107.8	4097434.7	59.34	166.89
GEN2B	628078.5	4097486.8	59.9	247.65	628107.8	4097434.7	59.34	160.47
GEN2C	628118.5	4097417.8	59.2	227.80	628107.8	4097434.7	59.34	155.13
GEN2D	628107.8	4097434.7	59.34	228.70	628107.8	4097434.7	59.34	157.54
GEN2E	628107.8	4097434.7	59.34	242.48	628107.8	4097434.7	59.34	170.66
GEN3A	628087.5	4097466.4	59.97	254.24	628107.8	4097434.7	59.34	171.14
GEN3B	628086.6	4097468.5	59.95	245.99	628107.8	4097434.7	59.34	163.82
GEN3C	628107.8	4097434.7	59.34	226.82	628107.8	4097434.7	59.34	162.63
GEN3D	628107.8	4097434.7	59.34	223.69	628107.8	4097434.7	59.34	157.60
GEN3E	628135.2	4097774.4	59.87	261.97	628135.2	4097774.4	59.87	176.97
GEN4A	628087.5	4097466.4	59.97	255.19	628107.8	4097434.7	59.34	171.88
GEN4B	628087.5	4097466.4	59.97	248.55	628107.8	4097434.7	59.34	165.30
GEN4C	628049	4097525	59.74	231.29	628107.8	4097434.7	59.34	162.38
GEN4D	628046.1	4097560	60.09	227.50	628049	4097525	59.74	156.52
GEN4E	628046.1	4097560	60.09	254.98	628049	4097525	59.74	169.96
GEN5A	628049	4097525	59.74	259.18	628069	4097505	59.74	168.87
GEN5B	628049	4097525	59.74	244.72	628087.5	4097466.4	59.97	165.24
GEN5C	628049	4097525	59.74	237.23	628069	4097505	59.74	157.48
GEN5D	628046.1	4097560	60.09	241.30	628070.4	4097505.1	59.86	155.62
GEN5E	628046.1	4097560	60.09	267.22	628070.4	4097505.1	59.86	168.60
GEN6A	628049	4097525	59.74	259.09	628069	4097505	59.74	166.22
GEN6B	628049	4097525	59.74	244.62	628087.5	4097466.4	59.97	163.72
GEN6C	628049	4097525	59.74	236.45	628069	4097505	59.74	156.43
GEN6D	628046.1	4097560	60.09	240.88	628070.4	4097505.1	59.86	153.77
GEN6E	628046.1	4097560	60.09	266.10	628070.4	4097505.1	59.86	169.78
GEN7A	628070.4	4097505.1	59.86	260.59	628069	4097505	59.74	162.48
GEN7B	628069	4097605	59.69	245.96	628070.4	4097505.1	59.86	156.39
GEN7C	628046.1	4097560	60.09	236.45	628070.4	4097505.1	59.86	149.57
GEN7D	628046.1	4097560	60.09	234.57	628070.4	4097505.1	59.86	150.19
GEN7E	628046.1	4097560	60.09	255.71	628070.4	4097505.1	59.86	170.40
GEN8A	628069	4097505	59.74	274.77	628069	4097505	59.74	160.61
GEN8B	628069	4097505	59.74	258.01	628069	4097505	59.74	153.14
GEN8C	628069	4097505	59.74	246.93	628069	4097505	59.74	146.50
GEN8D	628069	4097505	59.74	238.10	628069	4097505	59.74	147.04
GEN8E	628069	4097505	59.74	253.20	628069	4097505	59.74	167.47
GEN9A	628070.4	4097505.1	59.86	270.45	628070.4	4097505.1	59.86	159.68
GEN9B	628070.4	4097505.1	59.86	253.23	628069	4097505	59.74	149.23
GEN9C	628070.4	4097505.1	59.86	240.70	628069	4097505	59.74	141.65
GEN9D	628070.4	4097505.1	59.86	233.58	628069	4097505	59.74	140.71
GEN9E	628070.4	4097505.1	59.86	248.75	628069	4097505	59.74	160.57
GEN10A	628070.4	4097505.1	59.86	265.27	628059.4	4097644.9	60.02	161.14
GEN10B	628070.4	4097505.1	59.86	248.25	628070.4	4097505.1	59.86	146.43
GEN10C	628070.4	4097505.1	59.86	235.72	628070.4	4097505.1	59.86	139.67
GEN10D	628070.4	4097505.1	59.86	229.24	628070.4	4097505.1	59.86	136.95
GEN10E	628070.4	4097505.1	59.86	242.72	628070.4	4097505.1	59.86	155.44
GEN11A	628059.4	4097644.9	60.02	261.80	628059.4	4097644.9	60.02	166.40
GEN11B	628059.4	4097644.9	60.02	240.27	628059.4	4097644.9	60.02	153.00
GEN11C	628059.4	4097644.9	60.02	220.19	628069.8	4097624.5	59.95	139.61
GEN11D	628069.8	4097624.5	59.95	220.20	628069.8	4097624.5	59.95	137.94
GEN11E	628069.8	4097624.5	59.95	233.17	628069.8	4097624.5	59.95	150.20
GEN12A	628059.4	4097644.9	60.02	262.15	628059.4	4097644.9	60.02	166.50
GEN12B	628059.4	4097644.9	60.02	240.16	628059.4	4097644.9	60.02	152.42
GEN12C	628041.2	4097680.5	60.18	220.69	628049	4097665	60.08	139.78

Refined 1-Hr NO₂ Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr CAAQS				1-Hr NAAQS			
	X coordinate	Y coordinate	Elevation	Total Concentration	X coordinate	Y coordinate	Elevation	Total Concentration
	m	m	meters	(µg/m ³)	m	m	meters	(µg/m ³)
GEN12D	628059.4	4097644.9	60.02	216.52	628059.4	4097644.9	60.02	138.52
GEN12E	628059.4	4097644.9	60.02	233.00	628059.4	4097644.9	60.02	149.95
GEN13A	628041.2	4097680.5	60.18	262.29	628049	4097665	60.08	166.97
GEN13B	628041.2	4097680.5	60.18	242.21	628049	4097665	60.08	153.32
GEN13C	628041.2	4097680.5	60.18	223.90	628041.2	4097680.5	60.18	138.99
GEN13D	628041.2	4097680.5	60.18	219.72	628049	4097665	60.08	139.20
GEN13E	628041.2	4097680.5	60.18	230.81	628049	4097665	60.08	149.98
GEN14A	628029	4097665	60.7	251.38	628041.2	4097680.5	60.18	163.82
GEN14B	628029	4097665	60.7	234.00	628041.2	4097680.5	60.18	151.27
GEN14C	628029	4097665	60.7	219.71	628041.2	4097680.5	60.18	142.11
GEN14D	628029	4097665	60.7	217.79	628041.2	4097680.5	60.18	141.12
GEN14E	628029	4097665	60.7	229.34	628071	4097582.2	59.98	152.81
GEN15A	628044	4097723.2	60.91	246.29	628044	4097723.2	60.91	162.77
GEN15B	628044	4097723.2	60.91	231.48	628044	4097723.2	60.91	151.77
GEN15C	628044	4097723.2	60.91	220.22	628044	4097723.2	60.91	143.34
GEN15D	628044	4097723.2	60.91	220.92	628044	4097723.2	60.91	142.59
GEN15E	628044	4097723.2	60.91	232.54	628071	4097582.2	59.98	151.08
GEN16A	628044	4097723.2	60.91	247.69	628044	4097723.2	60.91	162.02
GEN16B	628044	4097723.2	60.91	232.60	628044	4097723.2	60.91	152.38
GEN16C	628044	4097723.2	60.91	221.95	628044	4097723.2	60.91	144.20
GEN16D	628044	4097723.2	60.91	223.45	628044	4097723.2	60.91	142.67
GEN16E	628044	4097723.2	60.91	235.66	628071	4097582.2	59.98	152.08
GEN17A	628042.8	4097567.4	60.16	250.21	628042.8	4097567.4	60.16	161.51
GEN17B	628044	4097723.2	60.91	235.36	628042.8	4097567.4	60.16	152.95
GEN17C	628044	4097723.2	60.91	224.39	628042.8	4097567.4	60.16	146.23
GEN17D	628044	4097723.2	60.91	227.28	628044	4097723.2	60.91	143.68
GEN17E	628042.8	4097567.4	60.16	247.13	628042.8	4097567.4	60.16	153.69
GEN18A	628042.8	4097567.4	60.16	254.15	628042.8	4097567.4	60.16	161.30
GEN18B	628044	4097723.2	60.91	236.13	628042.8	4097567.4	60.16	153.47
GEN18C	628044	4097723.2	60.91	225.40	628042.8	4097567.4	60.16	146.74
GEN18D	628044	4097723.2	60.91	228.45	628042.8	4097567.4	60.16	143.63
GEN18E	628042.8	4097567.4	60.16	252.02	628042.8	4097567.4	60.16	155.88
GEN19A	628042.8	4097567.4	60.16	256.69	628042.8	4097567.4	60.16	160.84
GEN19B	628042.8	4097567.4	60.16	238.79	628042.8	4097567.4	60.16	154.03
GEN19C	628089	4097765	60.19	228.59	628042.8	4097567.4	60.16	149.18
GEN19D	628042.8	4097567.4	60.16	232.43	628042.8	4097567.4	60.16	145.02
GEN19E	628042.8	4097567.4	60.16	256.25	628042.8	4097567.4	60.16	157.46
GEN20A	628029	4097565	59.92	258.28	628042.8	4097567.4	60.16	161.70
GEN20B	628029	4097565	59.92	242.02	628049	4097545	59.86	154.37
GEN20C	628089	4097765	60.19	230.38	628049	4097545	59.86	149.03
GEN20D	628042.8	4097567.4	60.16	233.82	628042.8	4097567.4	60.16	145.68
GEN20E	628042.8	4097567.4	60.16	256.20	628042.8	4097567.4	60.16	160.32
GEN21A	628029	4097565	59.92	267.72	628049	4097545	59.86	165.49
GEN21B	628029	4097565	59.92	251.53	628049	4097545	59.86	157.83
GEN21C	628029	4097565	59.92	237.56	628049	4097545	59.86	152.81
GEN21D	628029	4097565	59.92	242.63	628049	4097545	59.86	149.10
GEN21E	628029	4097565	59.92	258.90	628049	4097545	59.86	162.24
GEN22A	628029	4097565	59.92	269.54	628049	4097545	59.86	166.66
GEN22B	628029	4097565	59.92	253.45	628049	4097545	59.86	158.48
GEN22C	628029	4097565	59.92	240.55	628049	4097545	59.86	154.61
GEN22D	628029	4097565	59.92	246.33	628049	4097525	59.74	150.63
GEN22E	628029	4097565	59.92	264.04	628049	4097545	59.86	164.25
GEN23A	628029	4097565	59.92	268.94	628029	4097565	59.92	168.50
GEN23B	628029	4097565	59.92	253.90	628029	4097565	59.92	161.39
GEN23C	628029	4097565	59.92	242.60	628009	4097665	60.46	157.73
GEN23D	628029	4097565	59.92	249.26	628009	4097665	60.46	154.43
GEN23E	628029	4097565	59.92	268.31	628009	4097665	60.46	165.27
GEN24A	628029	4097565	59.92	266.89	628009	4097665	60.46	169.10

Refined 1-Hr NO₂ Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr CAAQS				1-Hr NAAQS			
	X coordinate	Y coordinate	Elevation	Total Concentration	X coordinate	Y coordinate	Elevation	Total Concentration
	m	m	meters	(µg/m ³)	m	m	meters	(µg/m ³)
GEN24B	628029	4097565	59.92	252.18	628029	4097565	59.92	162.79
GEN24C	628029	4097565	59.92	242.16	628009	4097665	60.46	159.13
GEN24D	628029	4097565	59.92	248.66	628009	4097665	60.46	155.94
GEN24E	628029	4097565	59.92	268.23	628009	4097665	60.46	166.82
GEN25A	628009	4097665	60.46	266.34	628009	4097665	60.46	170.35
GEN25B	628029	4097685	60.19	259.78	628009	4097665	60.46	164.60
GEN25C	628029	4097685	60.19	260.35	628009	4097665	60.46	160.29
GEN25D	628009	4097665	60.46	253.13	628009	4097665	60.46	158.22
GEN25E	628009	4097665	60.46	269.36	628009	4097665	60.46	170.22
GEN26A	628009	4097665	60.46	270.88	628009	4097665	60.46	171.92
GEN26B	628044	4097723.2	60.91	269.70	628009	4097665	60.46	166.16
GEN26C	628029	4097685	60.19	265.03	628009	4097665	60.46	161.75
GEN26D	628009	4097665	60.46	256.29	628009	4097665	60.46	159.47
GEN26E	628009	4097665	60.46	269.05	628009	4097665	60.46	171.49
GEN27A	628489	4097585	58.79	264.22	628489	4097585	58.79	182.81
GEN27B	628489	4097585	58.79	255.49	628489	4097585	58.79	177.59
GEN27C	628509	4097625	58.67	253.35	628489	4097585	58.79	168.75
GEN27D	628489	4097585	58.79	251.47	628489	4097585	58.79	164.00
GEN27E	628489	4097585	58.79	266.46	628489	4097585	58.79	173.47
GEN28A	628489	4097645	58.73	261.16	628489	4097585	58.79	180.73
GEN28B	628489	4097645	58.73	251.84	628489	4097585	58.79	175.22
GEN28C	628509	4097625	58.67	250.53	628489	4097585	58.79	167.98
GEN28D	628489	4097645	58.73	247.79	628489	4097585	58.79	163.35
GEN28E	628489	4097725	58.88	264.98	628489	4097585	58.79	171.40
GEN29A	628489	4097705	58.76	263.19	628509	4097665	58.73	176.91
GEN29B	628489	4097705	58.76	250.25	628489	4097585	58.79	170.38
GEN29C	628489	4097645	58.73	243.08	628489	4097585	58.79	163.41
GEN29D	628489	4097705	58.76	248.78	628489	4097585	58.79	159.59
GEN29E	628489	4097705	58.76	269.68	628489	4097705	58.76	166.96
GEN30A	628489	4097705	58.76	266.88	628509	4097665	58.73	175.45
GEN30B	628489	4097705	58.76	253.42	628489	4097585	58.79	168.42
GEN30C	628489	4097705	58.76	243.36	628489	4097705	58.76	160.43
GEN30D	628489	4097705	58.76	250.33	628489	4097705	58.76	157.40
GEN30E	628489	4097705	58.76	272.12	628489	4097705	58.76	164.45
GEN31A	628489	4097645	58.73	250.82	628509	4097665	58.73	170.06
GEN31B	628509	4097665	58.73	241.73	628489	4097585	58.79	162.66
GEN31C	628509	4097665	58.73	234.35	628489	4097585	58.79	156.96
GEN31D	628489	4097645	58.73	240.30	628489	4097645	58.73	152.53
GEN31E	628489	4097645	58.73	249.91	628489	4097585	58.79	159.66
GEN32A	628489	4097645	58.73	246.84	628509	4097665	58.73	166.62
GEN32B	628509	4097665	58.73	240.69	628509	4097665	58.73	159.98
GEN32C	628509	4097665	58.73	230.81	628489	4097605	58.7	154.73
GEN32D	628489	4097645	58.73	235.68	628489	4097585	58.79	148.76
GEN32E	628489	4097645	58.73	246.39	628069	4097505	59.74	156.62
GEN33A	628069	4097505	59.74	267.08	628069	4097505	59.74	157.86
GEN33B	628069	4097505	59.74	255.89	628069	4097505	59.74	151.33
GEN33C	628069	4097505	59.74	248.33	628087.5	4097466.4	59.97	144.91
GEN33D	628069	4097505	59.74	223.95	628069	4097505	59.74	141.35
GEN33E	628070.4	4097505.1	59.86	237.08	628069	4097505	59.74	156.82
GEN34A	628069	4097505	59.74	268.34	628069	4097505	59.74	155.23
GEN34B	628069	4097505	59.74	256.15	628087.5	4097466.4	59.97	148.93
GEN34C	628069	4097505	59.74	247.90	628069	4097505	59.74	142.21
GEN34D	628069	4097505	59.74	225.70	628069	4097505	59.74	139.00
GEN34E	628070.4	4097505.1	59.86	234.00	628069	4097505	59.74	152.99
GEN35A	628070.4	4097505.1	59.86	258.52	628050.3	4097662.7	60.06	151.19
GEN35B	628070.4	4097505.1	59.86	245.98	628050.3	4097662.7	60.06	141.48
GEN35C	628070.4	4097505.1	59.86	237.93	628069	4097505	59.74	131.62
GEN35D	628070.4	4097505.1	59.86	222.19	628069	4097505	59.74	131.78

Refined 1-Hr NO₂ Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr CAAQS				1-Hr NAAQS			
	X coordinate	Y coordinate	Elevation	Total Concentration	X coordinate	Y coordinate	Elevation	Total Concentration
	m	m	meters	(µg/m ³)	m	m	meters	(µg/m ³)
GEN35E	628069.8	4097624.5	59.95	231.76	628050.3	4097662.7	60.06	151.36
GEN36A	628050.3	4097662.7	60.06	250.24	628050.3	4097662.7	60.06	155.45
GEN36B	628070.4	4097505.1	59.86	235.51	628050.3	4097662.7	60.06	145.95
GEN36C	628070.4	4097505.1	59.86	228.39	628050.3	4097662.7	60.06	134.25
GEN36D	628070.4	4097505.1	59.86	214.95	628050.3	4097662.7	60.06	136.25
GEN36E	628050.3	4097662.7	60.06	236.44	628050.3	4097662.7	60.06	155.96
GEN37A	628059.4	4097644.9	60.02	257.91	628059.4	4097644.9	60.02	162.49
GEN37B	628059.4	4097644.9	60.02	238.71	628059.4	4097644.9	60.02	151.50
GEN37C	628059.4	4097644.9	60.02	221.20	628059.4	4097644.9	60.02	140.46
GEN37D	628059.4	4097644.9	60.02	219.39	628059.4	4097644.9	60.02	143.56
GEN37E	628059.4	4097644.9	60.02	244.82	628059.4	4097644.9	60.02	160.50
GEN38A	628059.4	4097644.9	60.02	263.49	628059.4	4097644.9	60.02	164.68
GEN38B	628059.4	4097644.9	60.02	243.38	628059.4	4097644.9	60.02	153.77
GEN38C	628059.4	4097644.9	60.02	225.37	628059.4	4097644.9	60.02	141.06
GEN38D	628059.4	4097644.9	60.02	223.93	628059.4	4097644.9	60.02	145.79
GEN38E	628059.4	4097644.9	60.02	250.78	628059.4	4097644.9	60.02	163.84
GEN39A	628059.4	4097644.9	60.02	266.65	628059.4	4097644.9	60.02	168.45
GEN39B	628059.4	4097644.9	60.02	246.41	628059.4	4097644.9	60.02	155.21
GEN39C	628059.4	4097644.9	60.02	228.54	628059.4	4097644.9	60.02	144.01
GEN39D	628059.4	4097644.9	60.02	227.67	628059.4	4097644.9	60.02	147.01
GEN39E	628059.4	4097644.9	60.02	256.09	628059.4	4097644.9	60.02	165.92
GEN40A	628041.2	4097680.5	60.18	265.11	628041.2	4097680.5	60.18	168.97
GEN40B	628041.2	4097680.5	60.18	246.93	628041.2	4097680.5	60.18	156.56
GEN40C	628041.2	4097680.5	60.18	232.81	628041.2	4097680.5	60.18	147.73
GEN40D	628041.2	4097680.5	60.18	234.70	628041.2	4097680.5	60.18	146.10
GEN40E	628041.2	4097680.5	60.18	249.69	628041.2	4097680.5	60.18	159.53
GEN41A	628041.2	4097680.5	60.18	261.88	628041.2	4097680.5	60.18	165.35
GEN41B	628041.2	4097680.5	60.18	244.75	628041.2	4097680.5	60.18	154.11
GEN41C	628041.2	4097680.5	60.18	230.96	628041.2	4097680.5	60.18	146.43
GEN41D	628041.2	4097680.5	60.18	233.58	628041.2	4097680.5	60.18	145.44
GEN41E	628041.2	4097680.5	60.18	248.02	628041.2	4097680.5	60.18	158.23
GEN42A	628041.2	4097680.5	60.18	258.18	628041.2	4097680.5	60.18	166.70
GEN42B	628041.2	4097680.5	60.18	242.14	628041.2	4097680.5	60.18	156.43
GEN42C	628029	4097665	60.7	229.04	628041.2	4097680.5	60.18	149.03
GEN42D	628029	4097665	60.7	232.54	628041.2	4097680.5	60.18	146.48
GEN42E	628029	4097665	60.7	246.96	628041.2	4097680.5	60.18	158.13
GEN43A	628029	4097665	60.7	253.18	628041.2	4097680.5	60.18	167.13
GEN43B	628029	4097665	60.7	239.63	628041.2	4097680.5	60.18	158.47
GEN43C	628029	4097665	60.7	227.43	628041.2	4097680.5	60.18	151.42
GEN43D	628029	4097665	60.7	231.47	628041.2	4097680.5	60.18	147.61
GEN43E	628029	4097665	60.7	245.49	628041.2	4097680.5	60.18	159.96
GEN44A	628029	4097665	60.7	250.37	628041.2	4097680.5	60.18	166.87
GEN44B	628029	4097665	60.7	237.33	628041.2	4097680.5	60.18	159.26
GEN44C	628029	4097665	60.7	226.08	628029	4097665	60.7	152.80
GEN44D	628029	4097665	60.7	229.68	628029	4097665	60.7	148.19
GEN44E	628029	4097625	60.54	244.50	628069	4097605	59.69	160.65
GEN45A	628029	4097625	60.54	247.31	628044	4097723.2	60.91	166.04
GEN45B	628029	4097625	60.54	235.39	628044	4097723.2	60.91	158.16
GEN45C	628044	4097723.2	60.91	227.40	628044	4097723.2	60.91	153.48
GEN45D	628029	4097625	60.54	233.38	628044	4097723.2	60.91	149.26
GEN45E	628029	4097625	60.54	251.10	628042.8	4097567.4	60.16	160.46
GEN46A	628349	4097865	59.31	250.86	628044	4097723.2	60.91	166.99
GEN46B	628349	4097865	59.31	238.95	628044	4097723.2	60.91	158.79
GEN46C	628329	4097865	59.29	233.26	628044	4097723.2	60.91	153.28
GEN46D	628044	4097723.2	60.91	235.22	628044	4097723.2	60.91	150.63
GEN46E	628029	4097625	60.54	251.47	628044	4097723.2	60.91	161.18
GEN47A	628349	4097865	59.31	261.97	628329	4097865	59.29	175.07
GEN47B	628349	4097865	59.31	249.36	628329	4097865	59.29	166.11

Refined 1-Hr NO₂ Load Screening Analysis AERMOD Output Concentration Results

ID	1-Hr CAAQS				1-Hr NAAQS			
	X coordinate	Y coordinate	Elevation	Total Concentration	X coordinate	Y coordinate	Elevation	Total Concentration
	m	m	meters	(µg/m ³)	m	m	meters	(µg/m ³)
GEN47C	628329	4097865	59.29	242.06	628329	4097865	59.29	159.38
GEN47D	628349	4097865	59.31	245.30	628044	4097723.2	60.91	154.35
GEN47E	628349	4097865	59.31	261.19	628044	4097723.2	60.91	163.36
GEN48A	628389	4097845	59.22	270.06	628389	4097845	59.22	186.83
GEN48B	628369	4097845	59.22	256.40	628389	4097845	59.22	175.15
GEN48C	628369	4097845	59.22	248.14	628329	4097865	59.29	166.70
GEN48D	628349	4097865	59.31	250.13	628044	4097723.2	60.91	164.04
GEN48E	628349	4097865	59.31	268.63	628329	4097865	59.29	174.65
GEN49A	628349	4097865	59.31	273.12	628389	4097845	59.22	184.70
GEN49B	628349	4097865	59.31	262.07	628389	4097845	59.22	177.91
GEN49C	628349	4097865	59.31	253.59	628329	4097865	59.29	170.73
GEN49D	628349	4097865	59.31	260.50	628329	4097865	59.29	167.22
GEN49E	628349	4097865	59.31	279.36	628329	4097865	59.29	177.34
GEN50A	628429	4097805	59.04	285.37	628429	4097805	59.04	187.02
GEN50B	628429	4097805	59.04	277.02	628429	4097805	59.04	179.69
GEN50C	628409	4097805	59.11	265.30	628329	4097865	59.29	171.53
GEN50D	628349	4097865	59.31	263.73	628329	4097865	59.29	168.59
GEN50E	628349	4097865	59.31	281.30	628329	4097865	59.29	180.25
LSGEN1F	628044	4097723.2	60.91	220.07	628044	4097723.2	60.91	145.89
LSGEN2F	628388.9	4097748.6	59.13	248.44	628388.9	4097748.6	59.13	176.18
SEC1G	628127.1	4097897.3	61.26	338.31	628125.5	4097891	61.09	186.19

1. For CAAQS 1-hr NO₂ impacts, the total concentration reflects the highest 1-hour NO₂ concentration combined with seasonal hour of day background. The highest result is from SEC1G. For NAAQS 1-hr NO₂ impacts, the total concentration reflects the maximum 8th-highest 1-hour result combined with seasonal hour of day background data, both as averaged over 5 years to relate to the 98th percentile. The highest result is from GEN50A with operation restricted from 5:00-6:00 PM. Additional operational restrictions are taken on GEN49A from 6:00-7:00 PM and SEC1G from 5:00 PM – 7:00 AM to demonstrate compliance with the 1-hour NO₂ NAAQS.
2. All X and Y coordinates and elevations refer to the coordinates of the receptor which experiences the maximum concentration.