Technical Memorandum

TO: AECOM
c/o Allie Beauregard

FROM: Terry A. Hayes Associates Inc.

DATE: November 19, 2021

RE: Greenhouse Gas Emissions Impacts Assessment for the Alta Cuvee Mixed Use Project

SUMMARY

The purpose of this Technical Memorandum is to evaluate potential environmental impacts related to greenhouse gas (GHG) emissions in accordance with California Environmental Quality Act (CEQA) requirements for the Alta Cuvee Mixed-Use Project (proposed project). The assessment addressed the criteria outlined in the Appendix G Environmental Checklist of the CEQA Guidelines and determined that the proposed project would not result in a significant impact.

PROJECT DESCRIPTION

The proposed project involves the construction of two four-story, 260-unit apartment community located at 12901-12939 Foothill Boulevard in the City of Rancho Cucamonga. The project site is bound by Foothill Boulevard, a vacant lot, and condominiums to the north; Etiwanda Avenue and a shopping center to the west; and residential single-family homes to the south and east. The 5.56-acre vacant and undeveloped site is comprised of two parcels (Assessor's Parcel Numbers (APN) 0229-311-14 and 0229-311-15). **Figures 1** and **2** show the Regional Location and the Project Location, respectively. **Figure 3** illustrates the Site Plan.

The proposed project would include two four-story buildings with 259 apartments units (approximately 225,079 square feet) and one live-work unit (1,570 square feet). The center of the west building would have a courtyard with a pool and spa (approximately 3,572 square feet), and the center of the east building would have a courtyard. The proposed project would also include commercial space totaling 2,436 square feet, and ancillary office and lobby space comprising approximately 5,537 square feet. Vehicular access to the project site would be provided off Etiwanda Avenue and along eastbound Foothill Boulevard. Both locations would provide access to the surface parking area and to the south-facing entrance/exit of the subterranean garage. The proposed project would provide 465 total parking spaces: 200 surface parking spaces and 265 garage parking spaces. The proposed project would also construct an 11-foot wide and 62-foot long bus bay on eastbound Foothill Boulevard to accommodate the Omnitrans Transit Agency's bus transit Route 66 and other potential future bus service.

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Figure 1: Regional Location

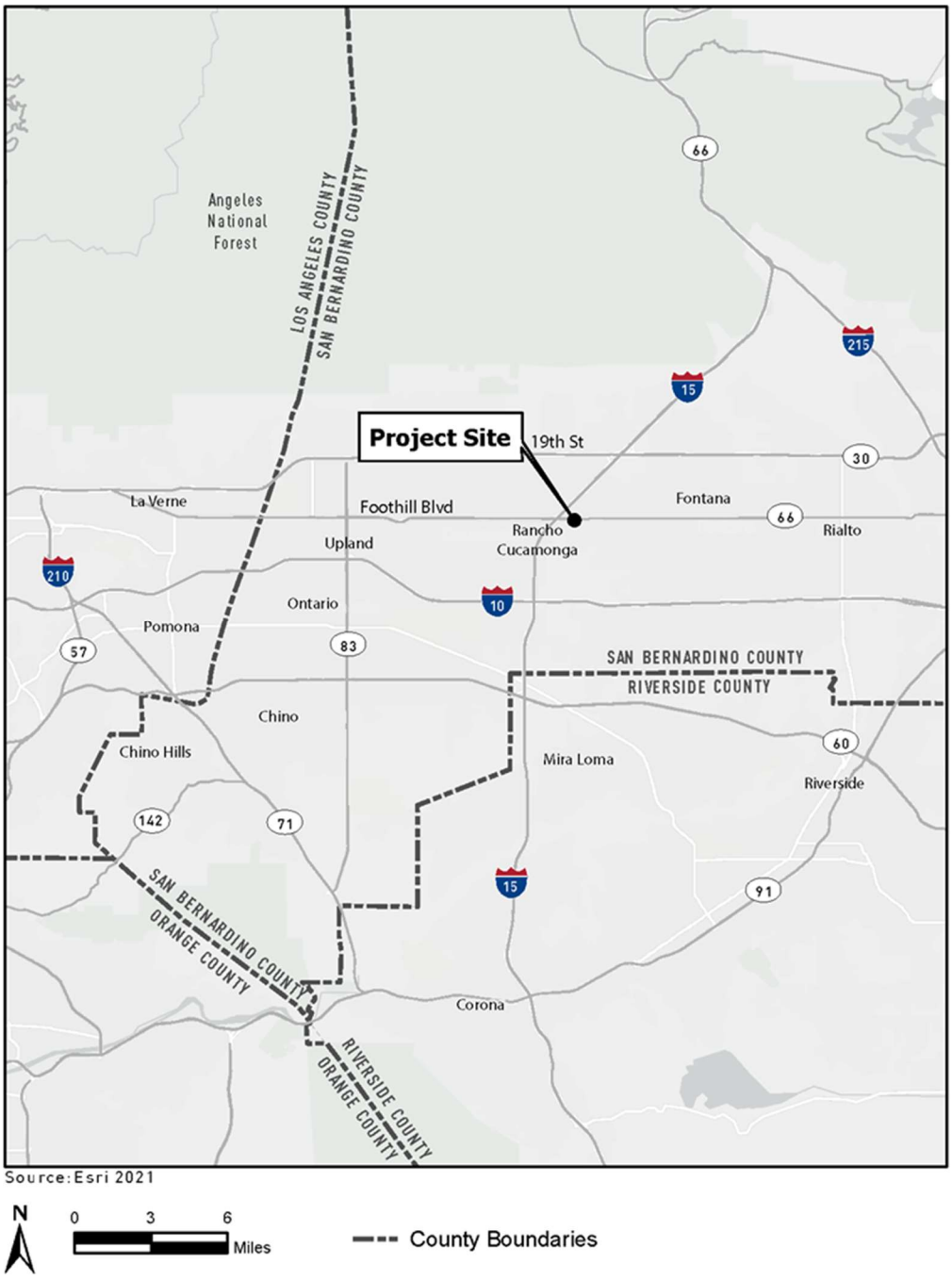

Figure 2: Project Location

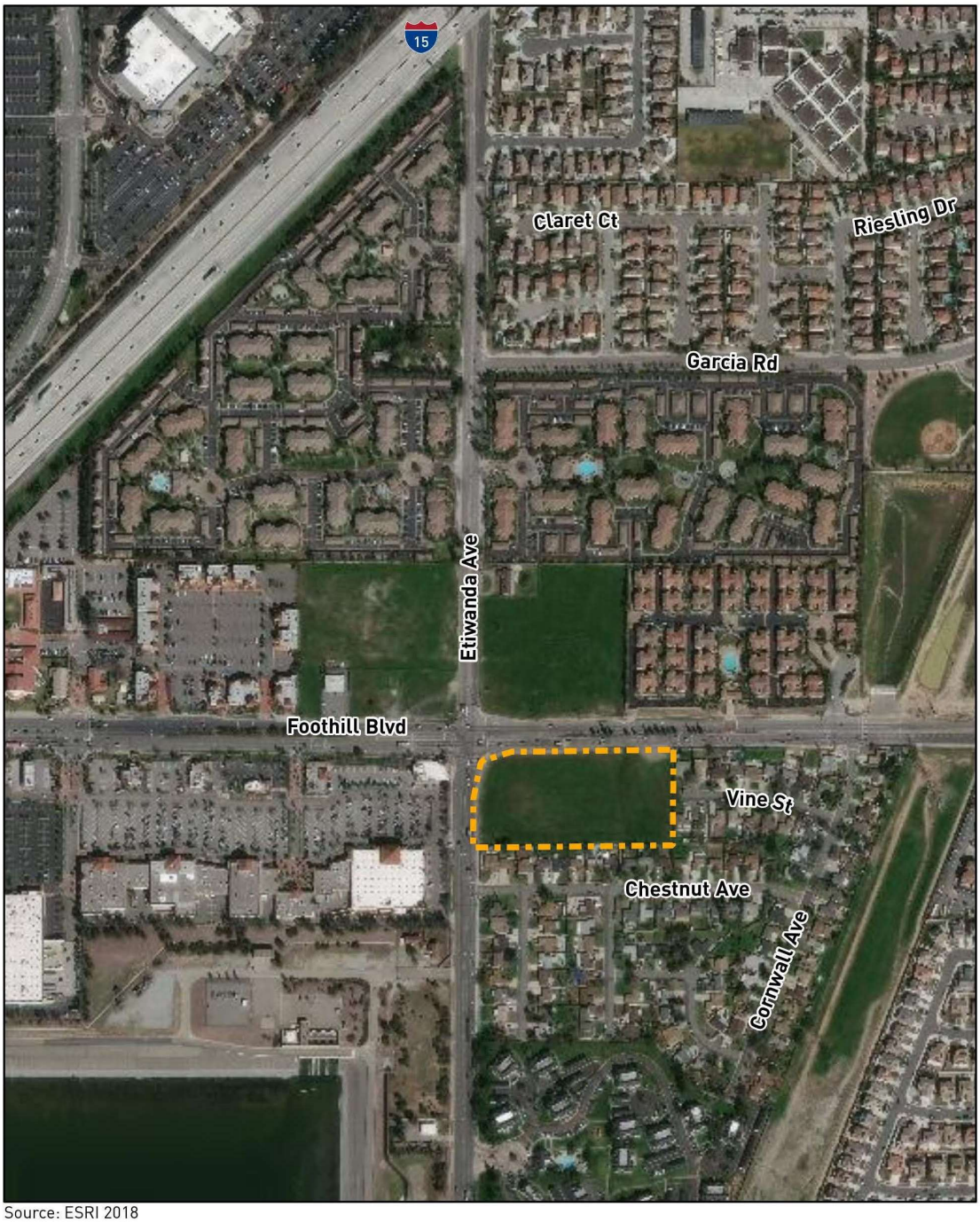

Figure 3: Site Plan

Construction of the proposed project is anticipated to begin in March 2022 and take approximately 24 months to complete, concluding in early 2024. Construction activities would occur Monday through Saturday from 7:00 a.m. to 7:00 p.m. The construction period would include excavation and grading activities, installation of building foundations and utilities, and installation of landscaping and hardscape elements. Approximately 52,010 cubic yards of material would be excavated as part of the proposed project of which approximately 31,770 cubic yards would be hauled away from the project site. Approximately 20,240 cubic yards of material would remain on the project site to be used as backfill.

CLIMATE CHANGE TOPICAL BACKGROUND

Climate change refers to variations in average long-term meteorological conditions on Earth as a whole, including changes in temperature, wind patterns, precipitation, and frequency and severity of extreme weather events. Historical records indicate that global climate fluctuations have occurred in the past due to natural phenomena; however, recent data increasingly suggests that the current global conditions are distinct from previous patterns and are influenced by anthropogenic (human-sourced) GHG emissions. GHGs are a class of pollutants that are generally understood to play a critical role in controlling atmospheric temperature near the Earth's surface by allowing high frequency shortwave solar radiation to enter the planet's atmosphere and then subsequently trapping low frequency infrared radiative energy that would otherwise emanate back out into space. The greenhouse effect compares the Earth and the atmosphere surrounding it to a greenhouse with glass panes; the glass panes in a greenhouse let heat from sunlight in and reduce the amount of heat that escapes. The levels of GHGs in the atmosphere affect how much heat energy can be absorbed.

Radiative forcing is an expression of the net difference in energy entering Earth's atmosphere versus leaving it. Each GHG possesses its own degree of climate forcing ability to absorb low frequency infrared energy, meaning that some GHGs are more effective in trapping heat in the atmosphere than others. Water vapor is the most environmentally prevalent GHG, however, definitive methods are not established to regulate emissions and concentrations of water vapor in the atmosphere. After water vapor, carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O) are the most ubiquitous GHGs, and CO_2 is commonly used as the standard reference for characterizing the relative global warming potential (GWP) of other GHGs. The GWP value describes the relative magnitude of climate forcing effects of GHGs and is used to convert emissions into CO_2-equivalents (CO_2e). **Table 1** presents the GWP value and atmospheric lifetime of CO_2, CH_4, and N_2O, as well as other regulated GHGs emitted by human activities. GHG emissions that would be generated by the proposed project are assessed in units of metric tons of CO2e ($MTCO_2e$).

TABLE 1: GLOBAL WARMING POTENTIAL FOR VARIOUS GREENHOUSE GASES

Pollutant	Lifetime (Years) /a/	Global Warming Potential (20-Year)	Global Warming Potential (100-Year) /b/
Carbon Dioxide (CO_2)	--	1	1
Methane (CH_4)	12	21	25
Nitrous Oxide (N_2O)	114	310	298
Nitrogen Trifluoride	740	Unknown	17,200
Sulfur Hexafluoride (SF_6)	3,200	23,900	22,800
Perfluorocarbons (PFCs)	2,600-50,000	6,500-9,200	7,390-12,200
Hydrofluorocarbons (HFCs)	1-270	140-11,700	124-14,800

/a/ Lifetime refers to the approximate amount of time it would take for the anthropogenic increment to an atmospheric pollutant concentration to return to its natural level as a result of either being converted to another chemical compound or being taken out of the atmosphere via a sink.
/b/ The United States primarily uses the 100-year GWP as a measure of the relative impact of different GHGs. However, the scientific community has developed a number of other metrics that could be used for comparing one GHG to another. These metrics may differ based on timeframe, the climate endpoint measured, or the method of calculation. For example, the 20-year GWP is sometimes used as an alternative to the 100-year GWP. Just like the 100-year GWP is based on the energy absorbed by a gas over 100 years, the 20-year GWP is based on the energy absorbed over 20 years. This 20-year GWP prioritizes gases with shorter lifetimes, because it does not consider impacts that happen more than 20 years after the emissions occur. Because all GWPs are calculated relative to CO_2, GWPs based on a shorter timeframe will be larger for gases with lifetimes shorter than that of CO_2, and smaller for gases with lifetimes longer than CO_2.
SOURCE: CARB, *Global Warming Potentials,* https://www.arb.ca.gov/cc/inventory/background/gwp.htm, accessed on October 13, 2020.

REGULATORY FRAMEWORK

In response to growing scientific and political concern with global climate change, a series of federal and state laws have been adopted to reduce GHG emissions. The following provides a brief summary of GHG regulations and policies. This is a not an exhaustive list of all regulations and policies.

Federal

***Massachusetts vs. Environmental Protection Agency*, 127 S. Ct. 1438 (2007)**. A Supreme Court ruling that CO_2 and other GHGs are pollutants under the Clean Air Act.

Energy Independence and Security Act. This act set a Renewable Fuel Standard of 36 billion gallons of biofuel usage by 2022, increases Corporate Average Fuel Economy Standards of setting 35 miles per gallon of cars and light trucks by 2020 and sets new standards for lighting and residential and commercial appliance equipment.

National Fuel Efficiency Policy and Fuel Economy Standards. This 2009 policy was designed to increase fuel economy by more than five percent by 2016 starting with model year 2012 cars and trucks.

Heavy-Duty Vehicle Program. This 2011 program established the first fuel efficiency requirements for medium- and heavy-duty vehicles beginning with model year 2014.

State

California Building Energy Efficiency Standards (Title 24, Part 6). The California Building Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations, Title 24, Part 6) were adopted to ensure that building construction and system design and installation achieve energy efficiency and preserve outdoor and indoor environmental quality. The 2019 Title 24 Standards went into effect on January 1, 2020. The 2019 Title 24 Standards represent "challenging but achievable design and construction practices" that represent a major step towards meeting the Zero Net Energy (ZNE)

goal." Homes built with the 2019 standards will use about 7 percent less energy due to energy efficiency measures versus those built under the 2016 standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use about 53 percent less energy than those built under the 2016 standards. The California Building Code is updated triennially and is expected to become more energy efficient with each update.

California Green Building Standards (Title 24, Part 11). The California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, includes mandatory measures related to energy efficiency, water efficiency and conservation, material conservation, resource efficiency, and environmental quality. Compliance with the CALGreen Code is enforced through the building permit process.

Senate Bill 1078 (SB 1078), Senate Bill 107 (SB 107), Executive Order (E.O.) S-14-08 (Renewables Portfolio Standard), and Senate Bill 100 (SB 100). Signed on September 12, 2002, SB 1078 required California to generate 20 percent of its electricity from renewable energy by 2017. SB 107, signed on September 26, 2006 changed the due date for this goal from 2017 to 2010, which was achieved by the State. On November 17, 2008, E.O. S-14-08 established a Renewables Portfolio Standard target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. SB 100 accelerated and expanded the standards set forth in SB 350 by establishing that 44 percent of the total electricity sold to retail customers in California per year by December 31, 2024, 52 percent by December 31, 2027, and 60 percent by December 31, 2030 be secured from qualifying renewable energy sources. SB 100 also states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100 percent of the retail sales of electricity to California. This bill requires that the achievement of 100 percent zero-carbon electricity resources does not increase the carbon emissions elsewhere in the western grid and that the achievement not be achieved through resource shuffling.

Executive Order (E.O.) S-3-05. E.O. S-3-05 set the following GHG emission reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels.

Assembly Bill 32. The California Global Warming Solutions Act of 2006, also known as Assembly Bill 32, focuses on reducing GHG emissions in California and requires the California Air Resources Board (CARB) to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020. The 2020 target reductions were estimated to be 174 million metric tons of CO_2e. In November 2017, CARB adopted California's 2017 Scoping Plan: The Strategy for Achieving California's 2030 GHG target (2017 Scoping Plan). The 2017 Scoping Plan incorporates, coordinates, and leverages many existing and ongoing efforts and identifies new policies and actions to accomplish the State's climate goals.

Senate Bill 375 (SB 375). Provides a means for achieving Assembly Bill 32 goals through the reduction in emissions by cars and light trucks. SB 375 requires Regional Transportation Plans (RTPs) prepared by Metropolitan Planning Organizations (MPOs) to include Sustainable Communities Strategies (SCSs).

Senate Bill 743 (SB 743). SB 743, adopted September 27, 2013, encourages land use and transportation planning decisions and investments that reduce vehicle miles traveled, which contribute to GHG emissions, as required by AB 32. Key provisions of SB 743 include reforming aesthetics and parking CEQA analysis for certain urban infill projects and eliminating the measurement of auto delay, including Level of Service, as a metric that can be used for measuring traffic impacts in transit priority areas. SB 743 requires the Governor's Office of Planning and Research to develop revisions to the CEQA Guidelines establishing

criteria for determining the significance of transportation impacts of projects within transit priority areas that promote the "…reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses." It also allows the Office of Planning and Research to develop alternative metrics outside of transit priority areas.

Executive Order (E.O) B-30-15. This policy set a goal to reduce GHG emissions 40 percent below their 1990 levels by 2030. The E.O. establishes GHG emissions reduction targets to reduce emissions to 80 percent below 1990 levels by 2050 and sets an interim target of emissions reductions for 2030 as being necessary to guide regulatory policy and investments in California and put California on the most cost-effective path for long-term emissions reductions.

Senate Bill 32 (SB 32). This bill requires that statewide GHG emissions be reduced to 40 percent less than 1990 levels by 2030.

Executive Order (E.O) B-55-18. This policy established a statewide policy to achieve carbo neutrality as soon as possible and no later than 2045 and to achieve and maintain net negative emissions thereafter. The E.O. states that the new goal is in addition to the prior statewide targets for reduction of GHG emissions.

Regional

Southern California Association of Governments (SCAG) 2020–2045 Regional Transportation Plan/ Sustainable Communities Strategy (RTP/SCS). The SCAG Regional Council formally adopted the Connect SoCal 2020–2045 RTP/SCS (Connect SoCal) on September 3, 2020. Rooted in the 2008 and 2012 RTP/SCS plans, Connect SoCal's "Core Vision" focuses on maintaining and enhancing management of the transportation network while also expanding mobility choices by creating hubs that connect housing, jobs, and transit accessibility. The "Core Vision" of Connect SoCal is organized into six key focus areas that expand upon progress made in the 2016 RTP/SCS: Sustainable Development, System Preservation and Resilience, Demand & System Management, Transit Backbone, Complete Streets, and Goods Movement. Connect SoCal incorporates a range of best practices for increasing transportation choices, reducing dependence on personal automobiles, further improving air quality and reducing GHG emissions, and encouraging growth in walkable, mixed-use communities with convenient access to transit infrastructure and employment.

Each of the six key focus areas in Connect SoCal contains strategies to achieve the intended holistic objectives of the Connect SoCal Growth Vision. The Sustainable Development focus area is the portion of the planning document dedicated to the SCS, which is the most directly applicable element to GHG emissions. The SCS evaluated the following Priority Growth Areas (PGAs) that were selected and developed based on their ability to support potential mode shift and shortened trip distances:

- Transit Priority Areas (TPAs) are defined as an area within one-half mile of a major transit stop that is existing or planned. This includes an existing rail or bus rapid transit station, a ferry terminal served by bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods. (Based on California Public Resources Code Section 21099 (a)(7) and Section 21064.3)
- High Quality Transit Areas (HQTAs) are generally walkable transit villages or corridors, consistent with the adopted RTP/SCS that are within one half-mile of a well-serviced transit stop or a transit corridor with 15-minute or less service frequency during peak commute hours. Freeway transit corridors with no bus stops on the freeway alignment do not have a directly associated HQTA. A

high-quality transit corridor (HQTC) is defined as a corridor with fixed route bus service containing intervals no longer than 15 minutes during peak commute hours (Based on California Public Resources Code Section 21155(b)).

- Livable Corridors refer to an arterial network that is a subset of the HQTAs based on level of transit service and land use planning efforts.
- Neighborhood Mobility Areas (NMAs) are areas with high intersection density (generally 50 intersections per square mile or more), low to moderate traffic speeds and robust residential retail connections which can support the use of Neighborhood Electric Vehicles or active transportation for short trips.
- Job Centers are areas with significantly higher employment density than surrounding areas.

Connect SoCal devised a growth priority hierarchy in order to optimize opportunities for shorter trip distances and drivers to switch to electric vehicles, which directs growth towards the areas described above in the following order: TPAs, Livable Corridors, Job Centers, HQTAs, and NMAs. Development in these areas will be guided by the following Connect SoCal strategies to reduce GHG emissions: focusing growth near destinations and mobility options; promoting diverse housing choice; leveraging technology innovations; supporting implementation of sustainability policies; and promoting a green region. SCAG, in conjunction with CARB, determined that implementation of Connect SoCal would achieve regional GHG reductions relative to 2005 SCAG areawide levels of approximately eight percent in 2020 and approximately 19 percent by 2035.[1] The regional GHG emissions reductions achieved through the Connect SoCal Growth Vision are consistent with the regional targets set forth by CARB through SB 375.

San Bernardino Regional Greenhouse Gas Reduction Plan. In response to State initiatives, an informal project partnership, led by the San Bernardino Council of Governments, compiled a GHG emissions inventory and an evaluation of reduction measures that could be adopted by the 25 Partnership Cities of San Bernardino County. The Regional Reduction Plan forecasts each city's emissions to the year 2030, including for the City of Rancho Cucamonga. In addition to city-specific GHG emissions inventory, the Regional Reduction Plan includes a comprehensive list of measures applicable to the region and presented to each city to identify measures that would be feasible for implementation locally. Partnership cities provided a selection of potential GHG reduction strategies that were used to identify the level of reduction that would be achieved locally toward achieving a 2030 emissions reduction target.

Through the Regional Reduction Plan, the City selected a goal to reduce community GHG emissions to a level 40 percent below 2016 GHG emissions by 2030. Through policies in the City's 2010 General Plan and reduction measures identified in the Regional Reduction Plan, GHG emissions in the city would be reduced through implementation of the following general strategies:

- Promoting sustainable development that reduces environmental impacts;
- Working towards a sustainable jobs-housing balance;
- Implementing land use patterns and policies that incorporate smart growth practices;
- Reducing operational energy requirements through sustainable and complementary land use patterns;

[1]SCAG, *Connect SoCal 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy*, May 2020.

- Promoting pedestrian-friendly development; and
- Supporting development projects that are designed to facilitate convenient access for pedestrians, bicycles, transit, and automobiles.

Resilient IE. Western Riverside Council of Governments (WRCOG) in partnership with the SBCOG/SBCTA developed the Resilient IE program to support regional and local efforts to prepare for and mitigate risks associated with climate adaptation and transportation infrastructure. The Resilient IE program includes six primary components:

- Establish a regional climate collaborative, referred to as the Inland Southern California Climate Collaborative (ISC3);
- Revise WRCOG's community vulnerability assessment and establish a vulnerability assessment for San Bernardino County;
- Develop city-level, climate-related transportation hazards and evacuation maps;
- Develop a climate resilient transportation infrastructure guidebook;
- Prepare a regional climate adaptation and resiliency general plan element template; and
- Serve as a pilot project to assess the community cost of downed or damaged transportation assets.

Through the development of the San Bernardino County Vulnerability Assessment and Adaptation Strategies, the Resilient IE program includes a vulnerability assessment that summarizes projected climate change—related hazards that would affect the county and cities within it. The project also includes a summary of climate change adaptation measures developed through a regional context for consideration by local agencies to implement in their own general plans or other planning documents.

Local

City of Rancho Cucamonga 2010 General Plan. The 2010 General Plan addresses the impact of communitywide activities on global warming and climate change within the Public Health and Safety chapter. Further, the 2010 General Plan Environmental Impact Report Climate Change section analyzes GHG emissions and climate change impacts associated with the implementation of the City's General Plan. The 2010 General Plan includes goals and policies to address vehicle trip reduction, energy conservation, water conservation, and reduction in solid waste generation. Motor vehicles represent the major source of regional emissions throughout the South Coast Air Basin and the City. Transportation and energy production (i.e. electricity generation) are the primary local activities associated with the generation of GHGs. The 2010 General Plan goals and policies for Public Health and Safety are designed to guide long-range planning decisions and daily activities to reduce emissions of GHGs and reduce the impact of local activities on climate change. Many actions identified in the 2010 General Plan undertaken by the City would also directly or indirectly reduce GHG emissions. These actions include building residential units near the Metrolink station, pursuing mixed-use development, supporting transit use, developing bicycle routes and trails, and supporting the use of alternative fuel vehicles in the City's vehicle fleet.

Rancho Cucamonga Sustainable Community Action Plan. As discussed previously, the City adopted the Sustainable Community Action Plan in 2017. The Sustainable Community Action Plan uses the inventory and forecasts prepared through the Regional Reduction Plan to aspire to reduce GHG emissions 15 percent below 2008 levels by 2020. The City's SAP is a visionary document that identified a menu of

goals and actions the City could take locally to reduce citywide GHG emissions in key areas, including transportation and mobility, land use and open space, energy efficiency and renewables, green building performance, water and wastewater, waste and recycling.

Greenhouse Gas Emissions and Climate Change Vulnerability Assessment Exiting Conditions Report. The City of Rancho Cucamonga has taken several steps to begin addressing climate change and reduce communitywide GHG emissions. These efforts include partnerships with regional agencies, including the San Bernardino Council of Governments/San Bernardino County Transportation Authority (SBCOG/SBCTA), to prepare the San Bernardino Regional Greenhouse Gas Reduction Plan and the City's Sustainable Community Action Plan, which identify strategies for reducing GHG emissions. Similarly, the Resilient IE program, developed through a partnership between WRCOG and SBCOG/SBCTA, identifies regional adaptation measures to assist cities in building resilience and adapting to anticipated climate change impacts. SBCOG/SBCTA is currently in the process of preparing an updated GHG inventory for the region for the year 2016.

The City's Greenhouse Gas Emissions and Climate Change Vulnerability Assessment includes two chapters. Chapter 1, Greenhouse Gas Emissions, includes a summary of climate change science and existing guidance for setting communitywide reduction targets, and developing plans for GHG reduction. Further, the chapter acknowledges the City's communitywide GHG emissions inventory. The inventory will provide an accounting of communitywide GHG emissions from activities within the city for a single year, forecast GHG emissions into the future consistent with State milestone years and the General Plan Update horizon year, and set emissions reduction targets consistent with State goals. Chapter 2, Climate Change Vulnerability Assessment, summarizes current and potential future climate-related impacts that may affect the City, evaluates how these impacts would potentially affect the community's populations, assets, and functions, and prioritizes how the City should address each vulnerability through the General Plan Update and Local Hazard Mitigation Plan.

EXISTING SETTING

Emissions of GHGs are the result of both natural and human-influenced activities. Volcanic activity, forest fires, decomposition, industrial processes, landfills, consumption of fossil fuels for power generation, transportation, heating, and cooling are the primary sources of GHG emissions. Without human activity, the Earth would maintain an approximate, but varied, balance between the emission of GHGs into the atmosphere and the storage of GHG in oceans and terrestrial ecosystems. Increased combustion of fossil fuels (e.g., gasoline, diesel, coal, etc.) has contributed to a rapid increase in atmospheric levels of GHGs over the last 150 years.

Table 2 shows GHG emissions from 2008 to 2017 in California. California's GHG emissions have followed a declining trend since 2008. In 2017, emissions from routine emitting activities statewide were 63 million metric tons of CO_2e ($MMTCO_2e$) lower than 2007 levels. Of note, between October 23, 2015 and February 18, 2016, an exceptional natural gas leak event occurred at the Aliso Canyon natural gas storage facility that resulted in unexpected GHG emissions of considerable magnitude. The exceptional incident released approximately 109,000 metric tons of CH_4, which equated to approximately 1.96 $MMTCO_2e$ of unanticipated emissions in 2015 and an additional 0.52 $MMTCO_2e$ in 2016. According to CARB, these emissions will be mitigated in the future through projects funded by the Southern California Gas Company based on legal settlement and are presented alongside but tracked separately from routine inventory emissions.[2,3]

TABLE 2: CALIFORNIA GREENHOUSE GAS EMISSIONS INVENTORY TREND

	CO_2e Emissions (Million Metric Tons)									
Sector	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**
Electricity Generation (In State)	55	54	47	41	51	50	52	50	42	39
Electricity Generation (Imports)	66	48	44	47	45	40	37	34	26	24
Transportation	182	175	170	167	166	166	167	171	173	174
Industrial	100	98	102	101	102	104	105	103	101	101
Commercial	18	19	20	21	21	22	21	22	23	23
Residential	31	31	32	33	31	32	27	28	29	30
Agriculture and Forestry	35	33	34	34	35	34	35	34	34	32
Emissions Total	**487**	**457**	**449**	**444**	**451**	**448**	**445**	**441**	**429**	**424**

SOURCE: CARB, *California Greenhouse Gas Emission Inventory - 2019 Edition*, available at https://ww3.arb.ca.gov/cc/inventory/data/data.htm.

The project site is currently vacant and does not contain any existing sources of GHG emissions. Therefore, implementation of the proposed project would not displace any GHG emissions and all emissions generated by construction and future operations would be new to the region. According to the Regional Reduction Plan, the City generated 1,495,685 $MTCO_2e$ in 2016 with the majority of emissions related to on-road transportation (47 percent) and building energy (45 percent).

[2]CARB, *California Greenhouse Gas Inventory for 2000-2015 – Trends of Emissions and Other Indicators*, June 2017.
[3]CARB, *Determination of Total Methane Emissions from the Aliso Canyon Natural Gas Leak Incident*, October 2016.

SIGNIFICANCE THRESHOLDS

This Assessment was undertaken to determine whether construction or operation of the proposed project would have the potential to result in significant environmental impacts related to GHG emissions in the context of the Appendix G Environmental Checklist criteria of the CEQA Statute and Guidelines. Implementation of the proposed project may result in a significant environmental impact related to GHG emissions if the proposed project would:

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

Section 15064.4 of the CEQA Guidelines states that a lead agency should make a good-faith effort to describe, calculate, or estimate the amount of GHG emissions resulting from a project, and that the lead agency should consider the following factors when assessing the significance of impacts from GHG emissions on the environment:

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

The CEQA Guidelines direct lead agencies to adopt thresholds of significance for GHG emissions. However, the CEQA Guidelines allow some flexibility in selecting the most appropriate thresholds of significance. The CEQA Guidelines promulgate that a lead agency, "shall make a good faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of [GHG] emissions resulting from a project," and that a lead agency should consider, "whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project" (§ 15064.4(a)-(b)). When adopting these thresholds, the amended Guidelines allow lead agencies to, "consider thresholds of significance previously adopted or recommended by other public agencies or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence" (§ 15064.7(c)), and/or to develop their own significance threshold. At this time, neither the City nor the SCAQMD has officially adopted a quantitative threshold value for determining the significance of GHG emissions that will be generated by projects under CEQA.

Although there are no GHG emissions thresholds presently promulgated for individual land use projects, the SCAQMD convened a GHG CEQA Significance Threshold Stakeholder Working Group that met 15 times between April 2008 and October 2010 to examine alternatives for establishing quantitative GHG thresholds. Based on collaborative efforts of the Working Group, SCAQMD staff published the *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold* in October 2008.[4] The Working Group proposed a tiered approach to assessing the significance of GHG emissions for CEQA projects. Tier 1 of the draft approach screens out all projects that qualify for an applicable exemption under

[4]SCAQMD, *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold*, October 2008.

CEQA. Tier 2 of the draft approach allows for projects to demonstrate consistency with an adopted GHG emissions reduction plan that meets the requirements of CEQA Guidelines §15064(h)(3), 15125(d), or 15152(a); and neither the City nor the County has prepared a qualifying reduction plan as defined in CEQA Guidelines Section 15183.5. Tier 3 recommended an annual emissions threshold of 3,000 $MTCO_2e$ for residential projects, which was derived using a 90 percent capture rate for proposed CEQA projects within the SCAQMD jurisdiction. The rationale behind the 90 percent capture rate was consistent with the California Air Pollution Control Officer's Association (CAPCOA) White Paper *CEQA and Climate Change*, published in 2008.[5]

SCAQMD has not mandated a singular quantitative significance threshold to be broadly applied by all public agencies to review all projects in deference to the CARB. In 2008, SCAQMD staff recommended two different types of GHG thresholds: (1) separate numerical thresholds for residential projects (3,500 $MTCO_2e$), commercial projects (1,400 $MTCO_2e$), and mixed use projects (3,000 $MTCO_2e$); or (2) a singular numerical threshold for all non-industrial projects (3,000 $MTCO_2e$). SCAQMD's GHG Working Group consensus, "clearly states that it is at the lead agency's discretion to apply the appropriate threshold to the project for CEQA review. In other words, SCAQMD's recommendation is that the lead agency will need to decide which threshold is most appropriate." Because the proposed Project is a mixed-use project, the City has determined to utilize SCAQMD's recommended threshold for mixed-use projects (3,000 $MTCO_2e$). These SCAQMD thresholds were developed using substantial evidence by the SCAQMD GHG Working Group, a group of various resource agencies, cities, counties, utilities, and environmental groups.

The City has determined that a threshold of significance of 3,000 $MTCO_2e$ for GHG emissions is appropriate for the proposed Project, as evidenced by the use of this quantitative screening threshold in several recently circulated environmental documents. The City based its threshold on the SCAQMD 2008 recommended threshold for mixed use projects, which was developed on a foundation of substantial evidence and through a public review process in accordance with the State CEQA Guidelines.

METHODOLOGY

Amendments to the CEQA Guidelines Section 15064.4 were adopted to assist lead agencies in determining the significance of in determining the significance of the impacts of GHG emissions. Section 15064.4(a) states that a lead agency shall make a good faith effort to describe, calculate, or estimate the amount of GHG emissions resulting from a project. In accordance with Section 15064.4(c), GHG emissions that will be generated by construction and operation of the proposed project were estimated using the California Emissions Estimator Model (CalEEMod, Version 2016.3.2), which is the preferred regulatory tool recommended by SCAQMD for estimating GHG emissions from proposed land use development projects. CalEEMod relies on an emissions factors database compiled from the CARB EMission FACtor (EMFAC) on-road mobile source emissions inventory model and the CARB OFFROAD off-road equipment model, as well as regional survey data for energy resource consumption, water use, and solid waste generation.

The land use inputs to CalEEMod for the proposed project included 259 mid-rise apartments comprising approximately 228,000 square feet of rentable floor area, one live/work townhouse of 1,570 square feet, commercial retail space totaling 3,339 square feet, ancillary leasing office and lobby space, two interior open space courtyards including a pool, a parking lot comprising 200 surface parking spaces, and a

[5]CAPCOA, *CEQA & Climate Change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act*, January 2008.

subterranean parking garage providing 265 additional spaces. The proposed project is located in Climate Zone 10 and future electric utility service would be provided by Rancho Cucamonga Municipal Utility (RCMU). The CalEEMod database does not include carbon intensity values for the RCMU power mix; however, a copy of the 2020 RCMU Power Content Label that was submitted to the CEC was obtained from the City that disclosed an average carbon intensity factor of approximately 630 pounds of CO_2 equivalents emitted per megawatt-hour of electricity generated (lbsCO_2e/MWh). Implementation of SB 100 requires that electric utility providers rely on 44 percent renewables by the end of 2024, and this value would decrease by the time the proposed project is operational. However, as a conservative approach the emissions modeling for the proposed project did not adjust the 2020 RCMU carbon intensity factor to account for expanded renewable sources.

Construction

Sources of GHG emissions during project construction will include exhaust produced by heavy-duty off-road diesel equipment and exhaust from on-road vehicular travel to and from the project site. The construction emissions analysis was based on a combination of detailed information provided by the project team and CalEEMod default assumptions related to typical construction activities. Construction of the proposed project is anticipated to begin in March 2022 and take approximately 24 months to complete, concluding in early 2024. In order to accommodate the subterranean parking structure and building foundations, approximately, 52,010 cubic yards of material would be excavated as part of the proposed project. Approximately 31,770 cubic yards would be hauled away for off-site disposal, and approximately 20,240 cubic yards of material would remain on the project site to be used as backfill. **Table 3** presents the general construction schedule with approximate start and end dates and durations for each activity involved. Refer to the Appendix for detailed worksheets presenting the GHG emissions associated with each activity by source.

TABLE 3: PROPOSED PROJECT CONSTRUCTION SCHEDULE

Phase Number	Phase Name	Approx. Start	Approx. End	Approx. Workdays
1	Demolition & Site Clearing	March 2022	March 2022	12
2	East Building – Grading	April 2022	April 2022	24
3	East Building – Trenching/Utilities	May 2022	May 2022	24
4	East Building – Construction	May 2022	February 2024	540
5	West Building – Grading	November 2022	November 2022	18
6	West Building – Trenching Utilities	November 2022	December 2022	12
7	West Building – Construction	December 2022	March 2024	390
8	East Building – Paving	May 2023	September 2023	108
9	East Building – Architectural Coating	May 2023	July 2023	72
10	West Building – Paving	August 2023	November 2023	96
11	West Building – Architectural Coating	September 2023	December 2023	72
12	Bus Bay on Eastbound Foothill Blvd	January 2024	March 2024	48

/a/ Construction activities were assumed to occur six days per week throughout the schedule.
SOURCE: TAHA, 2021.

The cumulative nature of GHG emissions and their influence on climate conditions lends to the assessment of impacts over longer time periods. Construction of the proposed project would be temporary, and sources present during construction activities would not represent long-term operational emissions. In accordance with guidance propagated by the SCAQMD, the total quantity of GHG emissions that would be generated by construction activities were summed and amortized (averaged) over a 30-year operational lifetime and considered in addition to modeled operational emissions.[6] All construction equipment and vehicles would be operated in compliance with applicable codes and regulations to minimize GHG emissions.

Operations

The proposed project is anticipated to begin operations in 2024. Sources of GHG emissions during future operation of the proposed project will include energy consumption, landscaping equipment exhaust, residential vehicular travel, water use, and waste generation. GHG emissions from electricity and natural gas use are based on the size of the land uses, the electrical demand factors for the land uses, the GHG emission factors for the utility provider, and the GWP values for the pollutants analyzed. As mentioned previously, the GHG intensity factor for SCE electricity provision was approximately 0.214 $MTCO_2e$/MWh (471.8 $lbCO_2e$/MWh). Emissions related to water usage and wastewater generation were calculated using CalEEMod which multiplies an estimate of the water usage by the applicable energy intensity factor to determine the embodied energy necessary to supply potable water. Emissions related to solid waste were calculated using the CalEEMod emissions inventory model, which multiplies an estimate of the waste generated by applicable emissions factors, provided in Section 2.4 of United States Environmental Protection Agency's AP-42, Compilation of Air Pollutant Emission Factors.

A Transportation Impact Analyses Scoping Memo was prepared for the proposed project and submitted to the City of Rancho Cucamonga that included an analysis of daily vehicle trips and VMT during future operation the proposed project. The scoping memo analysis determined that the proposed project would generate 1,503 daily trips and approximately 16,382.7 total daily VMT. Implementation of the proposed project would introduce a new multi-family residential development to the City of Rancho Cucamonga, and an appropriate vehicle fleet mix was assigned based on future residential trips. The scoping memo identified that the proposed project is in a TPA and satisfies the City of Rancho Cucamonga screening criteria for VMT analyses. Focusing new residential growth in TPAs is a priority outlined in the SCAG Connect SoCal plan.

The proposed project would be outfitted with numerous design features that would reduce its impact on regional GHG emissions and climate change. With regards to building energy efficiency, the proposed project would be subject to the 2019 Title 24 standards at a minimum. Updated 2019 Title 24 energy use factors for land use development projects were published in the newest iteration of Appendix D to the CalEEMod User's Guide, and those values were input to CalEEMod for the corresponding proposed project land uses.[7] Project design features selected in CalEEMod include residential units with no woodstoves or fireplaces, high efficiency appliances, low-flow plumbing fixtures, and water-efficient irrigation systems. The proposed project would also feature high efficiency lighting and would exceed the 2019 Title 24 residential building standards by approximately 7.2 percent in one building and by approximately 2.5

[6]South Coast Air Quality Management District, *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold*, October 2008.

[7]California Air Pollution Control Officer's Association, *California Emissions Estimator Model (CalEEMod, Version 2020.4.0) User's Guide – Appendix D Default Data*, May 2021.

percent in the other. However, these features were not accounted for in emissions modeling. Detailed operational GHG emissions produced in CalEEMod are provided in the **Appendix**.

IMPACT ASSESSMENT

The GHG emissions impacts assessment quantities GHG emissions that would be generated by construction and operation of the proposed project and evaluates them in the context of adopted plans, policies, and regulations directly applicable to the management and control of GHG emissions from residential land use development projects. In accordance with SCAQMD guidance, GHG emissions that would be generated during construction activities are amortized over a 30-year operational lifetime and considered in combination with future operational emissions beginning in 2024.

a) Would the proposed project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment? (Less-than-Significant Impact)

The proposed project would generate GHG emissions during temporary construction activities and future long-term operations. Construction of the proposed project would generate a total of approximately 2,897.7 $MTCO_2e$, which equates to approximately 96.6 $MTCO_2e$ annually over a 30-year amortization schedule. **Table 4** presents the estimated annual GHG emissions that would be generated by operation of the proposed project in 2024 from area, energy, mobile, water, and waste sources, as well as the amortized construction emissions. Annual GHG emissions would be approximately 2,890.0 $MTCO_2e$ during the first full year of operations beginning in 2024, which is below the SCAQMD threshold value of 3,000 $MTCO_2e$. This mass quantity of emissions is conservative in nature and likely overestimates emissions that would be generated by proposed project operations due to mandated augmentation of renewable energy sources in the RCMU power mix. As RCMU derives more of its power from renewable sources that do not emit GHG emissions, the carbon intensity of electricity supplied to customers will decrease. SB 100 mandates that all electricity providers in the state supply 44 percent of their power mix from renewable sources by 2025, 52 percent by 2028, and 60 percent by the end of 2030. Nevertheless, GHG emissions that would be generated by implementation of the proposed project would have a less than significant individual and cumulative impact on the environment.

TABLE 4: ESTIMATED ANNUAL GREENHOUSE GAS EMISSIONS

Source Category	Annual GHG Emissions ($MTCO_2e$ per Year)
Amortized Construction Emissions (Direct)	96.6
Area Source Emissions (Direct)	11.6
Energy Source Emissions (Indirect)	658.0
Mobile Source Emissions (Direct)	1,659.6
Waste Disposal Emissions (Indirect)	304.7
Water Supply & Wastewater Treatment (Indirect)	159.5
Total Annual GHG Emissions	**2,890.0**

SOURCE: TAHA, 2021.

b) Would the proposed project conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs? (Less-than-Significant Impact)

The GHG emissions reduction plans that are most directly relevant to the proposed project include California's 2017 Climate Change Scoping Plan at the State level, the SCAG Connect SoCal 2020–2045 RTP/SCS and the San Bernardino Regional GHG Reduction Plan at the regional level, and the Rancho Cucamonga Sustainable Community Action Plan at the local level. Through the San Bernardino Regional GHG Reduction Plan, the City selected a goal to reduce community GHG emissions to a level 40 percent below 2016 GHG emissions by 2030 per the Scoping Plan. The City's Sustainable Community Action Plan focused on achieving a 15 percent reduction relative to 2008 levels by the end of 2020. Operation of the proposed project is anticipated to begin in 2024 and therefore would not conflict with or obstruct implementation of strategies to reduce GHG emissions by the end of 2020. This discussion focuses on existing GHG emissions reduction plans, and therefore the 2035 regional target is the most applicable.

The CARB Scoping Plan and associated updates are designed to assist lead agencies in reducing regional and local GHG emissions. The Scoping Plan and updates emphasize the importance in the role of local agencies in setting policies to reduce VMT through land use planning stating, "While the State can do more to accelerate and incentivize these local decisions, local actions that reduce VMT are also necessary to meet transportation sector-specific goals and achieve the 2030 target under SB 32". The Scoping Plan recommends that local agencies adopt policies to reduce VMT through land use and community design, transit-oriented development, street design policies that prioritize transit, biking and walking, and by increasing low carbon mobility choices. In accordance with this recommendation, the City has adopted policies in the City's 2010 General Plan and GHG reduction measures in the San Bernardino Regional GHG Reduction Plan for reducing GHG emissions in the City. Specifically, GHG emissions would be reduced by promoting sustainable development, creating a sustainable jobs-housing balance, incorporating smart growth practices, reducing operational energy requirements through sustainable and complementary land use patterns, promoting pedestrian-friendly development and supporting development projects that are designed to facilitate convenient access for pedestrians, bicycles, transit, and automobiles. The proposed project is located in a TPA, which would contribute to reduced VMT by locating new housing in an area with convenient access to public transit. This type of compact, urban development along public transportation lines would be consistent with policies in the Scoping Plan and updates.

The proposed project promotes concentrated multi-family residential and mixed-use development in close proximity to transit stations and corridors in order to conserve resources and create more sustainable development pattern by encouraging transit ridership and walking as mobility alternatives to reduce automobile dependence. The proposed project would be designed to exceed the 2019 Title 24 energy efficient standards by approximately 7.2 percent in one building and by approximately 2.5 percent in the other. The proposed project would also include enhanced wall and window insulation; high efficiency mechanical equipment, appliances, and lighting; water efficient landscaping and irrigation systems; and installation of electric vehicle charging stations in the subterranean parking garage. The project location within the TPA and the energy efficient design ensure that the proposed project would be consistent with City GHG reduction plans and policies.

Through collaborative initiatives under SB 375, CARB and SCAG set a regional GHG emissions reduction target of 19 percent below 2005 per capita levels by 2035 that is incorporated into the Connect SoCal 2020–2045 RTP/SCS. The GHG emissions that are the subject of the reduction target are those produced by light- and medium-duty vehicles. The Connect SoCal 2020–2045 RTP/SCS emphasizes the prioritization of

residential development in TPAs with convenient access to public transit, job centers, and multimodal hubs. The proposed project is located in a TPA and therefore is considered to have less than significant impacts related to transportation and regional transportation planning according to the *City of Rancho Cucamonga Transportation Impact Analysis Guidelines*. **Table 5** presents the TPA screening criteria identified for the proposed project in the transportation impact analysis scoping memo prepared for the proposed project.

TABLE 5: CITY OF RANCHO CUCAMONGA TRANSIT PRIORITY AREA SCREENING CRITERIA

Criteria	Proposed Project Eligibility
Project is located within a half mile of high-quality transit.	Project is within a half mile of OmniTrans Route 66 alignment which provides 15-minute headways along Foothill Boulevard during commute periods.
Project has a minimum FAR of 0.75.	Project has a FAR greater than 1.0.
Project shall not supply more parking than is required by the City code.	Project proposes a parking reduction of 10 percent, consistent with City code.
Project is consistent with the RTP/SCS land use assumptions.	The land use growth assumed in the RTP/SCS includes an increase in multifamily housing units in the project location greater than the number of multifamily housing units proposed, which indicates that the project is consistent with the RTP/SCS.
Project does not replace affordable housing with market-rate housing units.	There are no existing affordable housing units on the project site that would be replaced.

SOURCE: Fehr & Peers, 2020.

In addition to being consistent with the City's transportation planning initiatives and the Connect SoCal 2020–2045 RTP/SCS, GHG emissions that would be generated by construction and operation of the proposed project would result in a less than significant impact. Future operation of the proposed project would generate approximately 2,890 $MTCO_2e$ annually, which is below the SCAQMD screening threshold value of 3,000 $MTCO_2e$ per year. The screening value was derived by the SCAQMD staff as an approximate threshold for capturing 90 percent of proposed CEQA projects above this level within the air district. Furthermore, this magnitude of emissions represents the maximum annual emissions that would be generated by the proposed project, as emissions associated with electricity consumption and vehicle trips would incrementally decrease in the future with the scheduled implementation of SB 100 and the Pavley vehicle emission standards, respectively. As RCMU obtains greater proportions of its power mix from eligible renewables, the GHG intensity of its power supply will decrease. Turnover within the regional fleet mix over time will improve aggregate average fuel efficiency, resulting in lower GHG emissions on a per-mile basis. The proposed project would also include design features that would enhance energy efficiency and reduce its contribution to regional GHG emissions. Relevant design feature include:

- Enhanced window insulation;
- High Efficiency Heating, Ventilation, and Air Conditions systems;
- Very high efficiency lights in all units and fixtures;
- Energy Star appliances (refrigerator, dishwashers, washing machines); and,
- Provision of electric vehicle charging stations in the parking garage.

Implementation of the proposed project would not conflict with or obstruct any plan, policy, or regulation adopted to reduce GHG emissions, and therefore this impact would be less than significant, and no mitigation measures are required.

REFERENCES

California Air Pollution Control Officers Association, *California Emissions Estimator Model (CalEEMod v2016.3.2) User's Guide*, November 2017.

California Air Resources Board, *California Greenhouse Gas Emission Inventory - 2019 Edition*, August 12, 2019.

California Air Resources Board, *California's 2017 Climate Change Scoping Plan*, November 2017.

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California Environmental Quality Act Guidelines *Section 15064.4*.

City of Rancho Cucamonga, *Greenhouse Gas Emissions and Climate Change Vulnerability Assessment Existing Conditions Report*, May 2020.

City of Rancho Cucamonga, *Rancho Cucamonga General Plan*, May 2010.

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County of San Bernardino, *Greenhouse Gas Emissions Development Review Process*, March 2015.

County of San Bernardino, *Regional Greenhouse Gas Reduction* Plan, March 2021.

Edison International*, Sustainability Report 2018*, May 2019.

Fehr & Peers, *Rancho Cuvee Transportation Impact Analyses Scoping Memo*, September 2020.

Rancho Cucamonga Municipal Utility, *2020 Power Content Label*, August 2021.

South Coast Air Quality Management District, *CEQA Air Quality Handbook*, 1993.

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South Coast Air Quality Management District, *SCAQMD Air Quality Significance Thresholds*, April 2019.

Southern California Association of Governments, *Connect SoCal 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy*, September 2020.

Southern California Edison, *2018 Power Content Label*, July 2019.

Western Riverside Council of Governments, *San Bernardino County Vulnerability Assessment*, 2019.

Appendix

Annual CalEEMod Output Files

- Alta Cuvee Mixed-Use Project CalEEMod Output
- Alta Cuvee Bus Bay CalEEMod Output

Alta Cuvee Mixed-Use Project

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.54	1000sqft	0.13	5,537.00	0
Enclosed Parking with Elevator	265.00	Space	0.00	89,810.00	0
Parking Lot	200.00	Space	1.80	64,690.00	0
City Park	0.33	Acre	0.33	14,375.00	0
Recreational Swimming Pool	3.58	1000sqft	0.00	3,572.00	0
Apartments Mid Rise	259.00	Dwelling Unit	3.00	225,079.00	785
Condo/Townhouse	1.00	Dwelling Unit	0.00	1,570.00	3
Strip Mall	2.44	1000sqft	0.00	2,436.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	627.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RCMU 2020 Power Content Label for CO2e Intensity: 630 lbCO2e/MWh

Land Use - Project Design Land Uses:
Apartments: 226,649 SF (Includes Live/Work Unit)
Retail: 2,436 SF

Sub. Parking: 89,810 SF
Sfc. Parking: 64,690 SF
Leasing Office: 5,537 SF

Construction Phase - Schedule Provided by Applicant.
Site Preparation = Grading - East Building
Grading = Grading - West Building

Off-road Equipment - Project Equipment Inventory Provided by Applicant

Off-road Equipment - Project Inventory Provided by Applicant

Off-road Equipment - Project Inventory provided by Applicant.

Off-road Equipment - Project Inventory provided by Applicant.

Off-road Equipment - Project Inventory provided by Applicant.

Off-road Equipment - Project Inventory provided by Applicant.
"Grading" - West Grading

Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory provided by Applicant.

Off-road Equipment -

Off-road Equipment - Project Inventory provided by Applicant.
"Site Preparation" = East Grading

Off-road Equipment - Project Inventory provided by Applicant.

Off-road Equipment - Project Inventory provided by Applicant.

Trips and VMT - Max 60 haul loads per day during excavation/trenching.
Assume 20 vendor deliveries per day during construction.
Approximately 50-300 workers on-site during construction.

Grading - 31,770 total exported

Architectural Coating - SCAQMD Rule 1113 Compliance for Building Envelope and residential coatings - 50 g/L

Vehicle Trips - 1,420 daily residential trips/259 apartments = 5.483 trips/du
83 daily shopping trips/2.436 ksf = 34.08trips/ksf

Woodstoves - No Fireplaces in units per Project Design
1 Outdoor Fireplace Included

Area Coating - SCAQMD Rule 1113 Compliance for Building Envelope coatings: 50 g/L

Energy Use - Updated to 2019 Title 24 Energy Factors (CAPCOA, 2020)

Water And Wastewater - MND Estimated Project Water Use: Residential: 66,560 gal/day; Non-residential: 8,164 gal/day

Solid Waste - Waste Generation from MND Calculations: 12.23 lb/DU/day x 260 DU x 365 days/yr = 580.3135 tons solid waste

Construction Off-road Equipment Mitigation - Best management practices to comply with SCAQMD Rule 403 include watering exposed areas thrice daily.

Mobile Land Use Mitigation - Electric Vehicle Charging Provided (Not Quantified)

Area Mitigation - SCAQMD Rule 1113 Compliance for Building Envelop
Project Design does not include hearths/fireplaces in units, only 1 outdoor fireplace.

Energy Mitigation - High-Efficiency Appliances.

Water Mitigation -

Fleet Mix - Residential Trips

Table Name	Column Name	Default Value	New Value
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Alta Cuvee Mixed-Use Project - San Bernardino-South Coast County, Annual

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tblTripsAndVMT	VendorTripNumber	57.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	52.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	262.00	200.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	262.00	200.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	52.00	40.00
tblVehicleTrips	CC_TL	8.40	10.06
tblVehicleTrips	CNW_TL	6.90	10.06
tblVehicleTrips	CW_TL	16.60	10.06
tblVehicleTrips	DV_TP	11.00	0.00

tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	8.70	10.06
tblVehicleTrips	HO_TTP	40.60	40.00
tblVehicleTrips	HO_TTP	40.60	40.00
tblVehicleTrips	HS_TL	5.90	10.06
tblVehicleTrips	HS_TTP	19.20	20.00
tblVehicleTrips	HS_TTP	19.20	20.00
tblVehicleTrips	HW_TL	14.70	10.06
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	6.39	5.48
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	34.08
tblVehicleTrips	SU_TR	5.86	5.48
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	0.00
tblVehicleTrips	SU_TR	1.05	0.00

tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	34.08
tblVehicleTrips	WD_TR	6.65	5.48
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	34.08
tblWater	IndoorWaterUseRate	16,874,892.64	24,294,400.00
tblWater	IndoorWaterUseRate	65,154.03	0.00
tblWater	IndoorWaterUseRate	984,644.96	0.00
tblWater	IndoorWaterUseRate	211,732.46	0.00
tblWater	IndoorWaterUseRate	180,736.95	2,979,860.00
tblWater	OutdoorWaterUseRate	603,492.07	0.00
tblWater	OutdoorWaterUseRate	110,774.26	0.00
tblWoodstoves	NumberCatalytic	12.95	0.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	12.95	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3077	2.9439	2.9131	8.6700e-003	0.3829	0.0913	0.4741	0.0906	0.0866	0.1772	0.0000	786.8868	786.8868	0.0941	0.0000	789.2398
2023	2.2446	5.3238	8.0025	0.0201	0.8649	0.1773	1.0423	0.2321	0.1703	0.4024	0.0000	1,800.9552	1,800.9552	0.1945	0.0000	1,805.8182
2024	0.0833	0.5883	0.9628	2.5300e-003	0.1247	0.0167	0.1414	0.0334	0.0162	0.0496	0.0000	227.1850	227.1850	0.0187	0.0000	227.6522
Maximum	**2.2446**	**5.3238**	**8.0025**	**0.0201**	**0.8649**	**0.1773**	**1.0423**	**0.2321**	**0.1703**	**0.4024**	**0.0000**	**1,800.9552**	**1,800.9552**	**0.1945**	**0.0000**	**1,805.8182**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1648	1.2345	3.2302	8.6700e-003	0.3362	9.0700e-003	0.3452	0.0855	8.8700e-003	0.0944	0.0000	786.8864	786.8864	0.0941	0.0000	789.2394
2023	1.9803	2.2449	8.7719	0.0201	0.8649	0.0283	0.8932	0.2321	0.0278	0.2600	0.0000	1,800.9542	1,800.9542	0.1945	0.0000	1,805.8173
2024	0.0550	0.2541	1.0423	2.5300e-003	0.1247	2.3900e-003	0.1271	0.0334	2.3300e-003	0.0358	0.0000	227.1849	227.1849	0.0187	0.0000	227.6520
Maximum	**1.9803**	**2.2449**	**8.7719**	**0.0201**	**0.8649**	**0.0283**	**0.8932**	**0.2321**	**0.0278**	**0.2600**	**0.0000**	**1,800.9542**	**1,800.9542**	**0.1945**	**0.0000**	**1,805.8173**

Alta Cuvee Mixed-Use Project - San Bernardino-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**16.52**	**57.84**	**-9.82**	**0.00**	**3.40**	**86.07**	**17.63**	**1.43**	**85.70**	**38.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-7-2022**	**6-6-2022**	1.0456	0.3929
2	**6-7-2022**	**9-6-2022**	0.6314	0.3212
3	**9-7-2022**	**12-6-2022**	1.0903	0.4516
4	**12-7-2022**	**3-6-2023**	1.1546	0.5418
5	**3-7-2023**	**6-6-2023**	1.5955	0.8762
6	**6-7-2023**	**9-6-2023**	2.4149	1.3079
7	**9-7-2023**	**12-6-2023**	2.4722	1.5384
8	**12-7-2023**	**3-6-2024**	0.9413	0.4330
9	**3-7-2024**	**6-6-2024**	0.0164	0.0069
		Highest	2.4722	1.5384

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	1.0161	0.0370	2.6888	1.8000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	11.4037	11.4037	4.3700e-003	1.3000e-004	11.5512
Energy	0.0203	0.1737	0.0744	1.1100e-003		0.0140	0.0140		0.0140	0.0140	0.0000	662.8195	662.8195	0.0252	8.1000e-003	665.8636
Mobile	0.4708	0.8495	6.1092	0.0183	2.0571	0.0134	2.0705	0.5470	0.0124	0.5594	0.0000	1,658.1154	1,658.1154	0.0598	0.0000	1,659.6103
Waste						0.0000	0.0000		0.0000	0.0000	122.9963	0.0000	122.9963	7.2689	0.0000	304.7181
Water						0.0000	0.0000		0.0000	0.0000	8.6529	136.5056	145.1584	0.8950	0.0223	174.1769
Total	**1.5072**	**1.0602**	**8.8723**	**0.0196**	**2.0571**	**0.0428**	**2.0999**	**0.5470**	**0.0418**	**0.5888**	**131.6491**	**2,468.8441**	**2,600.4932**	**8.2533**	**0.0305**	**2,815.9201**

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	1.0161	0.0370	2.6888	1.8000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	11.4037	11.4037	4.3700e-003	1.3000e-004	11.5512
Energy	0.0203	0.1737	0.0744	1.1100e-003		0.0140	0.0140		0.0140	0.0140	0.0000	654.9937	654.9937	0.0248	8.0300e-003	658.0065
Mobile	0.4708	0.8495	6.1092	0.0183	2.0571	0.0134	2.0705	0.5470	0.0124	0.5594	0.0000	1,658.1154	1,658.1154	0.0598	0.0000	1,659.6103
Waste						0.0000	0.0000		0.0000	0.0000	122.9963	0.0000	122.9963	7.2689	0.0000	304.7181
Water						0.0000	0.0000		0.0000	0.0000	7.8741	125.2474	133.1215	0.8145	0.0203	159.5324
Total	**1.5072**	**1.0602**	**8.8723**	**0.0196**	**2.0571**	**0.0428**	**2.0999**	**0.5470**	**0.0418**	**0.5888**	**130.8704**	**2,449.7602**	**2,580.6306**	**8.1724**	**0.0285**	**2,793.4185**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.59**	**0.77**	**0.76**	**0.98**	**6.78**	**0.80**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/5/2022	3/18/2022	6	12	
2	Site Preparation	Grading	4/4/2022	4/30/2022	6	24	
3	Trenching/Utilities - East Building	Site Preparation	5/2/2022	5/28/2022	6	24	
4	Construction - East Building	Building Construction	5/30/2022	2/17/2024	6	540	
5	Grading	Grading	11/7/2022	11/26/2022	6	18	
6	Trenching/Utilities - West Building	Site Preparation	11/28/2022	12/10/2022	6	12	
7	Construction - West Building	Building Construction	12/12/2022	3/9/2024	6	390	
8	Paving - East Building	Paving	5/8/2023	9/9/2023	6	108	
9	Architectural Coatings - East Bldg	Architectural Coating	5/8/2023	7/29/2023	6	72	
10	Paving - West Building	Paving	8/7/2023	11/25/2023	6	96	
11	Architectural Coatings - West Bldg	Architectural Coating	9/11/2023	12/2/2023	6	72	

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 45

Acres of Paving: 1.8

Residential Indoor: 458,964; Residential Outdoor: 152,988; Non-Residential Indoor: 11,960; Non-Residential Outdoor: 3,987; Striped Parking Area: 9,270 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	2	4.00	84	0.74
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Crawler Tractors	2	8.00	212	0.43

Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Scrapers	1	8.00	367	0.48
Trenching/Utilities - East Building	Crawler Tractors	2	8.00	212	0.43
Trenching/Utilities - East Building	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching/Utilities - East Building	Trenchers	2	8.00	78	0.50
Construction - East Building	Aerial Lifts	2	7.00	63	0.31
Construction - East Building	Generator Sets	2	8.00	84	0.74
Construction - East Building	Rough Terrain Forklifts	2	8.00	100	0.40
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Scrapers	1	8.00	367	0.48
Trenching/Utilities - West Building	Crawler Tractors	2	8.00	212	0.43
Trenching/Utilities - West Building	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching/Utilities - West Building	Trenchers	2	8.00	78	0.50
Construction - West Building	Generator Sets	2	8.00	84	0.74
Construction - West Building	Rough Terrain Forklifts	2	8.00	100	0.40
Paving - East Building	Pavers	2	8.00	130	0.42
Paving - East Building	Paving Equipment	2	8.00	132	0.36
Paving - East Building	Rollers	2	8.00	80	0.38
Architectural Coatings - East Bldg	Air Compressors	5	8.00	15	0.48
Paving - West Building	Pavers	2	8.00	130	0.42
Paving - West Building	Paving Equipment	2	8.00	132	0.36
Paving - West Building	Rollers	2	8.00	80	0.38
Architectural Coatings - West Bldg	Air Compressors	5	8.00	15	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Utilities - East Building	5	40.00	0.00	2,880.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Construction - East Building	6	200.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Utilities - West Building	5	40.00	0.00	1,440.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Construction - West Building	4	200.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - East Building	6	40.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coatings - East Bldg	5	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - West Building	6	40.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coatings - West Bldg	5	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 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	6.3300e-003	0.0551	0.0770	1.3000e-004		2.8400e-003	2.8400e-003		2.7500e-003	2.7500e-003	0.0000	10.9785	10.9785	1.7500e-003	0.0000	11.0222
Total	**6.3300e-003**	**0.0551**	**0.0770**	**1.3000e-004**		**2.8400e-003**	**2.8400e-003**		**2.7500e-003**	**2.7500e-003**	**0.0000**	**10.9785**	**10.9785**	**1.7500e-003**	**0.0000**	**11.0222**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.5000e-004	7.8400e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1051	2.1051	5.0000e-005	0.0000	2.1064
Total	**1.0300e-003**	**7.5000e-004**	**7.8400e-003**	**2.0000e-005**	**2.6300e-003**	**2.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.1000e-004**	**0.0000**	**2.1051**	**2.1051**	**5.0000e-005**	**0.0000**	**2.1064**

3.2 Demolition - 2022

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	1.3800e-003	5.9800e-003	0.0851	1.3000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	10.9785	10.9785	1.7500e-003	0.0000	11.0222
Total	**1.3800e-003**	**5.9800e-003**	**0.0851**	**1.3000e-004**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**10.9785**	**10.9785**	**1.7500e-003**	**0.0000**	**11.0222**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.5000e-004	7.8400e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1051	2.1051	5.0000e-005	0.0000	2.1064
Total	**1.0300e-003**	**7.5000e-004**	**7.8400e-003**	**2.0000e-005**	**2.6300e-003**	**2.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.1000e-004**	**0.0000**	**2.1051**	**2.1051**	**5.0000e-005**	**0.0000**	**2.1064**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0318	0.0000	0.0318	3.4400e-003	0.0000	3.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0306	0.3560	0.1974	5.1000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	45.0455	45.0455	0.0146	0.0000	45.4097
Total	**0.0306**	**0.3560**	**0.1974**	**5.1000e-004**	**0.0318**	**0.0140**	**0.0458**	**3.4400e-003**	**0.0129**	**0.0163**	**0.0000**	**45.0455**	**45.0455**	**0.0146**	**0.0000**	**45.4097**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5000e-003	0.0157	5.0000e-005	5.2600e-003	3.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2102	4.2102	1.1000e-004	0.0000	4.2129
Total	**2.0700e-003**	**1.5000e-003**	**0.0157**	**5.0000e-005**	**5.2600e-003**	**3.0000e-005**	**5.3000e-003**	**1.4000e-003**	**3.0000e-005**	**1.4300e-003**	**0.0000**	**4.2102**	**4.2102**	**1.1000e-004**	**0.0000**	**4.2129**

3.3 Site Preparation - 2022

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					0.0124	0.0000	0.0124	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-003	0.0273	0.2502	5.1000e-004		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	45.0454	45.0454	0.0146	0.0000	45.4096
Total	**6.3000e-003**	**0.0273**	**0.2502**	**5.1000e-004**	**0.0124**	**8.4000e-004**	**0.0133**	**1.3400e-003**	**8.4000e-004**	**2.1800e-003**	**0.0000**	**45.0454**	**45.0454**	**0.0146**	**0.0000**	**45.4096**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5000e-003	0.0157	5.0000e-005	5.2600e-003	3.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2102	4.2102	1.1000e-004	0.0000	4.2129
Total	**2.0700e-003**	**1.5000e-003**	**0.0157**	**5.0000e-005**	**5.2600e-003**	**3.0000e-005**	**5.3000e-003**	**1.4000e-003**	**3.0000e-005**	**1.4300e-003**	**0.0000**	**4.2102**	**4.2102**	**1.1000e-004**	**0.0000**	**4.2129**

3.4 Trenching/Utilities - East Building - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0139	0.0000	0.0139	1.5600e-003	0.0000	1.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0225	0.2454	0.1448	3.1000e-004		0.0123	0.0123		0.0113	0.0113	0.0000	26.9238	26.9238	8.7100e-003	0.0000	27.1415
Total	**0.0225**	**0.2454**	**0.1448**	**3.1000e-004**	**0.0139**	**0.0123**	**0.0262**	**1.5600e-003**	**0.0113**	**0.0129**	**0.0000**	**26.9238**	**26.9238**	**8.7100e-003**	**0.0000**	**27.1415**

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	8.2500e-003	0.3078	0.0524	1.0900e-003	0.0248	7.7000e-004	0.0256	6.8100e-003	7.4000e-004	7.5500e-003	0.0000	105.4147	105.4147	5.8500e-003	0.0000	105.5610
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5000e-003	0.0157	5.0000e-005	5.2600e-003	3.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2102	4.2102	1.1000e-004	0.0000	4.2129
Total	**0.0103**	**0.3093**	**0.0680**	**1.1400e-003**	**0.0300**	**8.0000e-004**	**0.0309**	**8.2100e-003**	**7.7000e-004**	**8.9800e-003**	**0.0000**	**109.6248**	**109.6248**	**5.9600e-003**	**0.0000**	**109.7739**

3.4 Trenching/Utilities - East Building - 2022

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					5.4300e-003	0.0000	5.4300e-003	6.1000e-004	0.0000	6.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7600e-003	0.0163	0.1741	3.1000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	26.9238	26.9238	8.7100e-003	0.0000	27.1415
Total	**3.7600e-003**	**0.0163**	**0.1741**	**3.1000e-004**	**5.4300e-003**	**5.0000e-004**	**5.9300e-003**	**6.1000e-004**	**5.0000e-004**	**1.1100e-003**	**0.0000**	**26.9238**	**26.9238**	**8.7100e-003**	**0.0000**	**27.1415**

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	8.2500e-003	0.3078	0.0524	1.0900e-003	0.0248	7.7000e-004	0.0256	6.8100e-003	7.4000e-004	7.5500e-003	0.0000	105.4147	105.4147	5.8500e-003	0.0000	105.5610
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5000e-003	0.0157	5.0000e-005	5.2600e-003	3.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2102	4.2102	1.1000e-004	0.0000	4.2129
Total	**0.0103**	**0.3093**	**0.0680**	**1.1400e-003**	**0.0300**	**8.0000e-004**	**0.0309**	**8.2100e-003**	**7.7000e-004**	**8.9800e-003**	**0.0000**	**109.6248**	**109.6248**	**5.9600e-003**	**0.0000**	**109.7739**

3.5 Construction - East Building - 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	0.0881	0.9112	1.2874	2.1400e-003		0.0386	0.0386		0.0377	0.0377	0.0000	185.4550	185.4550	0.0310	0.0000	186.2294
Total	**0.0881**	**0.9112**	**1.2874**	**2.1400e-003**		**0.0386**	**0.0386**		**0.0377**	**0.0377**	**0.0000**	**185.4550**	**185.4550**	**0.0310**	**0.0000**	**186.2294**

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	9.1900e-003	0.3428	0.0682	9.8000e-004	0.0235	5.2000e-004	0.0240	6.7700e-003	5.0000e-004	7.2700e-003	0.0000	93.7047	93.7047	6.1500e-003	0.0000	93.8584
Worker	0.0801	0.0582	0.6078	1.8000e-003	0.2039	1.2900e-003	0.2052	0.0542	1.1900e-003	0.0554	0.0000	163.1432	163.1432	4.2500e-003	0.0000	163.2494
Total	**0.0892**	**0.4009**	**0.6760**	**2.7800e-003**	**0.2274**	**1.8100e-003**	**0.2292**	**0.0609**	**1.6900e-003**	**0.0626**	**0.0000**	**256.8479**	**256.8479**	**0.0104**	**0.0000**	**257.1079**

3.5 Construction - East Building - 2022

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	0.0268	0.2407	1.4474	2.1400e-003		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	185.4548	185.4548	0.0310	0.0000	186.2291
Total	**0.0268**	**0.2407**	**1.4474**	**2.1400e-003**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**185.4548**	**185.4548**	**0.0310**	**0.0000**	**186.2291**

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	9.1900e-003	0.3428	0.0682	9.8000e-004	0.0235	5.2000e-004	0.0240	6.7700e-003	5.0000e-004	7.2700e-003	0.0000	93.7047	93.7047	6.1500e-003	0.0000	93.8584
Worker	0.0801	0.0582	0.6078	1.8000e-003	0.2039	1.2900e-003	0.2052	0.0542	1.1900e-003	0.0554	0.0000	163.1432	163.1432	4.2500e-003	0.0000	163.2494
Total	**0.0892**	**0.4009**	**0.6760**	**2.7800e-003**	**0.2274**	**1.8100e-003**	**0.2292**	**0.0609**	**1.6900e-003**	**0.0626**	**0.0000**	**256.8479**	**256.8479**	**0.0104**	**0.0000**	**257.1079**

3.5 Construction - East Building - 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	0.1379	1.4294	2.1566	3.5900e-003		0.0566	0.0566		0.0552	0.0552	0.0000	311.0997	311.0997	0.0513	0.0000	312.3832
Total	**0.1379**	**1.4294**	**2.1566**	**3.5900e-003**		**0.0566**	**0.0566**		**0.0552**	**0.0552**	**0.0000**	**311.0997**	**311.0997**	**0.0513**	**0.0000**	**312.3832**

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	0.0116	0.4433	0.0987	1.6000e-003	0.0393	4.3000e-004	0.0398	0.0114	4.1000e-004	0.0118	0.0000	152.8593	152.8593	8.2900e-003	0.0000	153.0665
Worker	0.1258	0.0878	0.9345	2.9100e-003	0.3421	2.1100e-003	0.3442	0.0909	1.9400e-003	0.0928	0.0000	263.3840	263.3840	6.3800e-003	0.0000	263.5436
Total	**0.1374**	**0.5311**	**1.0332**	**4.5100e-003**	**0.3814**	**2.5400e-003**	**0.3840**	**0.1022**	**2.3500e-003**	**0.1046**	**0.0000**	**416.2433**	**416.2433**	**0.0147**	**0.0000**	**416.6101**

3.5 Construction - East Building - 2023

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	0.0450	0.4038	2.4279	3.5900e-003		5.2500e-003	5.2500e-003		5.2500e-003	5.2500e-003	0.0000	311.0993	311.0993	0.0513	0.0000	312.3828
Total	**0.0450**	**0.4038**	**2.4279**	**3.5900e-003**		**5.2500e-003**	**5.2500e-003**		**5.2500e-003**	**5.2500e-003**	**0.0000**	**311.0993**	**311.0993**	**0.0513**	**0.0000**	**312.3828**

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	0.0116	0.4433	0.0987	1.6000e-003	0.0393	4.3000e-004	0.0398	0.0114	4.1000e-004	0.0118	0.0000	152.8593	152.8593	8.2900e-003	0.0000	153.0665
Worker	0.1258	0.0878	0.9345	2.9100e-003	0.3421	2.1100e-003	0.3442	0.0909	1.9400e-003	0.0928	0.0000	263.3840	263.3840	6.3800e-003	0.0000	263.5436
Total	**0.1374**	**0.5311**	**1.0332**	**4.5100e-003**	**0.3814**	**2.5400e-003**	**0.3840**	**0.1022**	**2.3500e-003**	**0.1046**	**0.0000**	**416.2433**	**416.2433**	**0.0147**	**0.0000**	**416.6101**

3.5 Construction - East Building - 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	0.0175	0.1829	0.2902	4.8000e-004		6.7100e-003	6.7100e-003		6.5500e-003	6.5500e-003	0.0000	41.8762	41.8762	6.8300e-003	0.0000	42.0469
Total	**0.0175**	**0.1829**	**0.2902**	**4.8000e-004**		**6.7100e-003**	**6.7100e-003**		**6.5500e-003**	**6.5500e-003**	**0.0000**	**41.8762**	**41.8762**	**6.8300e-003**	**0.0000**	**42.0469**

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	1.5400e-003	0.0600	0.0128	2.1000e-004	5.3000e-003	6.0000e-005	5.3500e-003	1.5300e-003	6.0000e-005	1.5800e-003	0.0000	20.5543	20.5543	1.1200e-003	0.0000	20.5821
Worker	0.0160	0.0107	0.1171	3.8000e-004	0.0461	2.8000e-004	0.0463	0.0122	2.6000e-004	0.0125	0.0000	34.3054	34.3054	7.8000e-004	0.0000	34.3250
Total	**0.0175**	**0.0707**	**0.1299**	**5.9000e-004**	**0.0514**	**3.4000e-004**	**0.0517**	**0.0138**	**3.2000e-004**	**0.0141**	**0.0000**	**54.8597**	**54.8597**	**1.9000e-003**	**0.0000**	**54.9072**

3.5 Construction - East Building - 2024

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	6.0600e-003	0.0544	0.3268	4.8000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	41.8762	41.8762	6.8300e-003	0.0000	42.0469
Total	**6.0600e-003**	**0.0544**	**0.3268**	**4.8000e-004**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**41.8762**	**41.8762**	**6.8300e-003**	**0.0000**	**42.0469**

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	1.5400e-003	0.0600	0.0128	2.1000e-004	5.3000e-003	6.0000e-005	5.3500e-003	1.5300e-003	6.0000e-005	1.5800e-003	0.0000	20.5543	20.5543	1.1200e-003	0.0000	20.5821
Worker	0.0160	0.0107	0.1171	3.8000e-004	0.0461	2.8000e-004	0.0463	0.0122	2.6000e-004	0.0125	0.0000	34.3054	34.3054	7.8000e-004	0.0000	34.3250
Total	**0.0175**	**0.0707**	**0.1299**	**5.9000e-004**	**0.0514**	**3.4000e-004**	**0.0517**	**0.0138**	**3.2000e-004**	**0.0141**	**0.0000**	**54.8597**	**54.8597**	**1.9000e-003**	**0.0000**	**54.9072**

3.6 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0239	0.0000	0.0239	2.5800e-003	0.0000	2.5800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2670	0.1480	3.8000e-004		0.0105	0.0105		9.6800e-003	9.6800e-003	0.0000	33.7841	33.7841	0.0109	0.0000	34.0573
Total	**0.0230**	**0.2670**	**0.1480**	**3.8000e-004**	**0.0239**	**0.0105**	**0.0344**	**2.5800e-003**	**9.6800e-003**	**0.0123**	**0.0000**	**33.7841**	**33.7841**	**0.0109**	**0.0000**	**34.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.1300e-003	0.0118	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.1576	3.1576	8.0000e-005	0.0000	3.1597
Total	**1.5500e-003**	**1.1300e-003**	**0.0118**	**3.0000e-005**	**3.9500e-003**	**2.0000e-005**	**3.9700e-003**	**1.0500e-003**	**2.0000e-005**	**1.0700e-003**	**0.0000**	**3.1576**	**3.1576**	**8.0000e-005**	**0.0000**	**3.1597**

3.6 Grading - 2022

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					9.3100e-003	0.0000	9.3100e-003	1.0000e-003	0.0000	1.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7200e-003	0.0205	0.1877	3.8000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	33.7841	33.7841	0.0109	0.0000	34.0572
Total	**4.7200e-003**	**0.0205**	**0.1877**	**3.8000e-004**	**9.3100e-003**	**6.3000e-004**	**9.9400e-003**	**1.0000e-003**	**6.3000e-004**	**1.6300e-003**	**0.0000**	**33.7841**	**33.7841**	**0.0109**	**0.0000**	**34.0572**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.1300e-003	0.0118	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.1576	3.1576	8.0000e-005	0.0000	3.1597
Total	**1.5500e-003**	**1.1300e-003**	**0.0118**	**3.0000e-005**	**3.9500e-003**	**2.0000e-005**	**3.9700e-003**	**1.0500e-003**	**2.0000e-005**	**1.0700e-003**	**0.0000**	**3.1576**	**3.1576**	**8.0000e-005**	**0.0000**	**3.1597**

3.7 Trenching/Utilities - West Building - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.9600e-003	0.0000	6.9600e-003	7.8000e-004	0.0000	7.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1227	0.0724	1.5000e-004		6.1300e-003	6.1300e-003		5.6400e-003	5.6400e-003	0.0000	13.4619	13.4619	4.3500e-003	0.0000	13.5708
Total	**0.0113**	**0.1227**	**0.0724**	**1.5000e-004**	**6.9600e-003**	**6.1300e-003**	**0.0131**	**7.8000e-004**	**5.6400e-003**	**6.4200e-003**	**0.0000**	**13.4619**	**13.4619**	**4.3500e-003**	**0.0000**	**13.5708**

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	4.1200e-003	0.1539	0.0262	5.5000e-004	0.0124	3.9000e-004	0.0128	3.4000e-003	3.7000e-004	3.7700e-003	0.0000	52.7073	52.7073	2.9300e-003	0.0000	52.7805
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.5000e-004	7.8400e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1051	2.1051	5.0000e-005	0.0000	2.1064
Total	**5.1500e-003**	**0.1547**	**0.0340**	**5.7000e-004**	**0.0150**	**4.1000e-004**	**0.0154**	**4.1000e-003**	**3.9000e-004**	**4.4800e-003**	**0.0000**	**54.8124**	**54.8124**	**2.9800e-003**	**0.0000**	**54.8870**

3.7 Trenching/Utilities - West Building - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7200e-003	0.0000	2.7200e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8800e-003	8.1500e-003	0.0870	1.5000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	13.4619	13.4619	4.3500e-003	0.0000	13.5707
Total	**1.8800e-003**	**8.1500e-003**	**0.0870**	**1.5000e-004**	**2.7200e-003**	**2.5000e-004**	**2.9700e-003**	**3.0000e-004**	**2.5000e-004**	**5.5000e-004**	**0.0000**	**13.4619**	**13.4619**	**4.3500e-003**	**0.0000**	**13.5707**

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	4.1200e-003	0.1539	0.0262	5.5000e-004	0.0124	3.9000e-004	0.0128	3.4000e-003	3.7000e-004	3.7700e-003	0.0000	52.7073	52.7073	2.9300e-003	0.0000	52.7805
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.5000e-004	7.8400e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1051	2.1051	5.0000e-005	0.0000	2.1064
Total	**5.1500e-003**	**0.1547**	**0.0340**	**5.7000e-004**	**0.0150**	**4.1000e-004**	**0.0154**	**4.1000e-003**	**3.9000e-004**	**4.4800e-003**	**0.0000**	**54.8124**	**54.8124**	**2.9800e-003**	**0.0000**	**54.8870**

3.8 Construction - West Building - 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	7.9500e-003	0.0794	0.1074	1.8000e-004		3.5700e-003	3.5700e-003		3.5000e-003	3.5000e-003	0.0000	15.6237	15.6237	2.2500e-003	0.0000	15.6799
Total	**7.9500e-003**	**0.0794**	**0.1074**	**1.8000e-004**		**3.5700e-003**	**3.5700e-003**		**3.5000e-003**	**3.5000e-003**	**0.0000**	**15.6237**	**15.6237**	**2.2500e-003**	**0.0000**	**15.6799**

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	8.9000e-004	0.0332	6.6000e-003	9.0000e-005	2.2700e-003	5.0000e-005	2.3200e-003	6.6000e-004	5.0000e-005	7.0000e-004	0.0000	9.0682	9.0682	5.9000e-004	0.0000	9.0831
Worker	7.7500e-003	5.6300e-003	0.0588	1.7000e-004	0.0197	1.2000e-004	0.0199	5.2400e-003	1.2000e-004	5.3600e-003	0.0000	15.7881	15.7881	4.1000e-004	0.0000	15.7983
Total	**8.6400e-003**	**0.0388**	**0.0654**	**2.6000e-004**	**0.0220**	**1.7000e-004**	**0.0222**	**5.9000e-003**	**1.7000e-004**	**6.0600e-003**	**0.0000**	**24.8563**	**24.8563**	**1.0000e-003**	**0.0000**	**24.8814**

3.8 Construction - West Building - 2022

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	1.9500e-003	8.4300e-003	0.1200	1.8000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	15.6237	15.6237	2.2500e-003	0.0000	15.6799
Total	**1.9500e-003**	**8.4300e-003**	**0.1200**	**1.8000e-004**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**15.6237**	**15.6237**	**2.2500e-003**	**0.0000**	**15.6799**

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	8.9000e-004	0.0332	6.6000e-003	9.0000e-005	2.2700e-003	5.0000e-005	2.3200e-003	6.6000e-004	5.0000e-005	7.0000e-004	0.0000	9.0682	9.0682	5.9000e-004	0.0000	9.0831
Worker	7.7500e-003	5.6300e-003	0.0588	1.7000e-004	0.0197	1.2000e-004	0.0199	5.2400e-003	1.2000e-004	5.3600e-003	0.0000	15.7881	15.7881	4.1000e-004	0.0000	15.7983
Total	**8.6400e-003**	**0.0388**	**0.0654**	**2.6000e-004**	**0.0220**	**1.7000e-004**	**0.0222**	**5.9000e-003**	**1.7000e-004**	**6.0600e-003**	**0.0000**	**24.8563**	**24.8563**	**1.0000e-003**	**0.0000**	**24.8814**

3.8 Construction - West Building - 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	0.1284	1.2839	1.8585	3.1300e-003		0.0540	0.0540		0.0529	0.0529	0.0000	270.8250	270.8250	0.0383	0.0000	271.7829
Total	**0.1284**	**1.2839**	**1.8585**	**3.1300e-003**		**0.0540**	**0.0540**		**0.0529**	**0.0529**	**0.0000**	**270.8250**	**270.8250**	**0.0383**	**0.0000**	**271.7829**

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	0.0116	0.4433	0.0987	1.6000e-003	0.0393	4.3000e-004	0.0398	0.0114	4.1000e-004	0.0118	0.0000	152.8593	152.8593	8.2900e-003	0.0000	153.0665
Worker	0.1258	0.0878	0.9345	2.9100e-003	0.3421	2.1100e-003	0.3442	0.0909	1.9400e-003	0.0928	0.0000	263.3840	263.3840	6.3800e-003	0.0000	263.5436
Total	**0.1374**	**0.5311**	**1.0332**	**4.5100e-003**	**0.3814**	**2.5400e-003**	**0.3840**	**0.1022**	**2.3500e-003**	**0.1046**	**0.0000**	**416.2433**	**416.2433**	**0.0147**	**0.0000**	**416.6101**

3.8 Construction - West Building - 2023

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	0.0337	0.1462	2.0800	3.1300e-003		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	270.8247	270.8247	0.0383	0.0000	271.7825
Total	**0.0337**	**0.1462**	**2.0800**	**3.1300e-003**		**4.5000e-003**	**4.5000e-003**		**4.5000e-003**	**4.5000e-003**	**0.0000**	**270.8247**	**270.8247**	**0.0383**	**0.0000**	**271.7825**

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	0.0116	0.4433	0.0987	1.6000e-003	0.0393	4.3000e-004	0.0398	0.0114	4.1000e-004	0.0118	0.0000	152.8593	152.8593	8.2900e-003	0.0000	153.0665
Worker	0.1258	0.0878	0.9345	2.9100e-003	0.3421	2.1100e-003	0.3442	0.0909	1.9400e-003	0.0928	0.0000	263.3840	263.3840	6.3800e-003	0.0000	263.5436
Total	**0.1374**	**0.5311**	**1.0332**	**4.5100e-003**	**0.3814**	**2.5400e-003**	**0.3840**	**0.1022**	**2.3500e-003**	**0.1046**	**0.0000**	**416.2433**	**416.2433**	**0.0147**	**0.0000**	**416.6101**

3.8 Construction - West Building - 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	0.0233	0.2337	0.3572	6.0000e-004		9.1100e-003	9.1100e-003		8.9100e-003	8.9100e-003	0.0000	52.0781	52.0781	7.2500e-003	0.0000	52.2593
Total	**0.0233**	**0.2337**	**0.3572**	**6.0000e-004**		**9.1100e-003**	**9.1100e-003**		**8.9100e-003**	**8.9100e-003**	**0.0000**	**52.0781**	**52.0781**	**7.2500e-003**	**0.0000**	**52.2593**

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	2.2100e-003	0.0857	0.0183	3.1000e-004	7.5700e-003	8.0000e-005	7.6500e-003	2.1800e-003	8.0000e-005	2.2600e-003	0.0000	29.3632	29.3632	1.5900e-003	0.0000	29.4031
Worker	0.0228	0.0153	0.1673	5.4000e-004	0.0658	4.0000e-004	0.0662	0.0175	3.7000e-004	0.0178	0.0000	49.0077	49.0077	1.1200e-003	0.0000	49.0358
Total	**0.0250**	**0.1010**	**0.1856**	**8.5000e-004**	**0.0734**	**4.8000e-004**	**0.0738**	**0.0197**	**4.5000e-004**	**0.0201**	**0.0000**	**78.3710**	**78.3710**	**2.7100e-003**	**0.0000**	**78.4388**

3.8 Construction - West Building - 2024

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	6.4900e-003	0.0281	0.4000	6.0000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	52.0780	52.0780	7.2500e-003	0.0000	52.2592
Total	**6.4900e-003**	**0.0281**	**0.4000**	**6.0000e-004**		**8.6000e-004**	**8.6000e-004**		**8.6000e-004**	**8.6000e-004**	**0.0000**	**52.0780**	**52.0780**	**7.2500e-003**	**0.0000**	**52.2592**

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	2.2100e-003	0.0857	0.0183	3.1000e-004	7.5700e-003	8.0000e-005	7.6500e-003	2.1800e-003	8.0000e-005	2.2600e-003	0.0000	29.3632	29.3632	1.5900e-003	0.0000	29.4031
Worker	0.0228	0.0153	0.1673	5.4000e-004	0.0658	4.0000e-004	0.0662	0.0175	3.7000e-004	0.0178	0.0000	49.0077	49.0077	1.1200e-003	0.0000	49.0358
Total	**0.0250**	**0.1010**	**0.1856**	**8.5000e-004**	**0.0734**	**4.8000e-004**	**0.0738**	**0.0197**	**4.5000e-004**	**0.0201**	**0.0000**	**78.3710**	**78.3710**	**2.7100e-003**	**0.0000**	**78.4388**

3.9 Paving - East Building - 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	0.0558	0.5504	0.7876	1.2300e-003		0.0276	0.0276		0.0254	0.0254	0.0000	108.1451	108.1451	0.0350	0.0000	109.0195
Paving	2.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0581**	**0.5504**	**0.7876**	**1.2300e-003**		**0.0276**	**0.0276**		**0.0254**	**0.0254**	**0.0000**	**108.1451**	**108.1451**	**0.0350**	**0.0000**	**109.0195**

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	4.0300e-003	0.1535	0.0342	5.5000e-004	0.0136	1.5000e-004	0.0138	3.9300e-003	1.4000e-004	4.0700e-003	0.0000	52.9128	52.9128	2.8700e-003	0.0000	52.9846
Worker	8.7100e-003	6.0800e-003	0.0647	2.0000e-004	0.0237	1.5000e-004	0.0238	6.2900e-003	1.3000e-004	6.4200e-003	0.0000	18.2343	18.2343	4.4000e-004	0.0000	18.2453
Total	**0.0127**	**0.1595**	**0.0989**	**7.5000e-004**	**0.0373**	**3.0000e-004**	**0.0376**	**0.0102**	**2.7000e-004**	**0.0105**	**0.0000**	**71.1471**	**71.1471**	**3.3100e-003**	**0.0000**	**71.2299**

3.9 Paving - East Building - 2023

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	0.0152	0.0656	0.9340	1.2300e-003		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	108.1450	108.1450	0.0350	0.0000	109.0194
Paving	2.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0175**	**0.0656**	**0.9340**	**1.2300e-003**		**2.0200e-003**	**2.0200e-003**		**2.0200e-003**	**2.0200e-003**	**0.0000**	**108.1450**	**108.1450**	**0.0350**	**0.0000**	**109.0194**

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	4.0300e-003	0.1535	0.0342	5.5000e-004	0.0136	1.5000e-004	0.0138	3.9300e-003	1.4000e-004	4.0700e-003	0.0000	52.9128	52.9128	2.8700e-003	0.0000	52.9846
Worker	8.7100e-003	6.0800e-003	0.0647	2.0000e-004	0.0237	1.5000e-004	0.0238	6.2900e-003	1.3000e-004	6.4200e-003	0.0000	18.2343	18.2343	4.4000e-004	0.0000	18.2453
Total	**0.0127**	**0.1595**	**0.0989**	**7.5000e-004**	**0.0373**	**3.0000e-004**	**0.0376**	**0.0102**	**2.7000e-004**	**0.0105**	**0.0000**	**71.1471**	**71.1471**	**3.3100e-003**	**0.0000**	**71.2299**

3.10 Architectural Coatings - East Bldg - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7629					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.0996	0.0802	1.8000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	11.7843	11.7843	1.3100e-003	0.0000	11.8169
Total	**0.7789**	**0.0996**	**0.0802**	**1.8000e-004**		**4.4300e-003**	**4.4300e-003**		**4.4300e-003**	**4.4300e-003**	**0.0000**	**11.7843**	**11.7843**	**1.3100e-003**	**0.0000**	**11.8169**

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	5.8100e-003	4.0500e-003	0.0431	1.3000e-004	0.0158	1.0000e-004	0.0159	4.1900e-003	9.0000e-005	4.2800e-003	0.0000	12.1562	12.1562	2.9000e-004	0.0000	12.1636
Total	**5.8100e-003**	**4.0500e-003**	**0.0431**	**1.3000e-004**	**0.0158**	**1.0000e-004**	**0.0159**	**4.1900e-003**	**9.0000e-005**	**4.2800e-003**	**0.0000**	**12.1562**	**12.1562**	**2.9000e-004**	**0.0000**	**12.1636**

3.10 Architectural Coatings - East Bldg - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7629					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.0996	0.0802	1.8000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	11.7842	11.7842	1.3100e-003	0.0000	11.8169
Total	**0.7789**	**0.0996**	**0.0802**	**1.8000e-004**		**4.4300e-003**	**4.4300e-003**		**4.4300e-003**	**4.4300e-003**	**0.0000**	**11.7842**	**11.7842**	**1.3100e-003**	**0.0000**	**11.8169**

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	5.8100e-003	4.0500e-003	0.0431	1.3000e-004	0.0158	1.0000e-004	0.0159	4.1900e-003	9.0000e-005	4.2800e-003	0.0000	12.1562	12.1562	2.9000e-004	0.0000	12.1636
Total	**5.8100e-003**	**4.0500e-003**	**0.0431**	**1.3000e-004**	**0.0158**	**1.0000e-004**	**0.0159**	**4.1900e-003**	**9.0000e-005**	**4.2800e-003**	**0.0000**	**12.1562**	**12.1562**	**2.9000e-004**	**0.0000**	**12.1636**

3.11 Paving - West Building - 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	0.4892	0.7000	1.0900e-003		0.0245	0.0245		0.0225	0.0225	0.0000	96.1290	96.1290	0.0311	0.0000	96.9062
Paving	2.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0519**	**0.4892**	**0.7000**	**1.0900e-003**		**0.0245**	**0.0245**		**0.0225**	**0.0225**	**0.0000**	**96.1290**	**96.1290**	**0.0311**	**0.0000**	**96.9062**

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	3.5800e-003	0.1364	0.0304	4.9000e-004	0.0121	1.3000e-004	0.0122	3.4900e-003	1.3000e-004	3.6200e-003	0.0000	47.0336	47.0336	2.5500e-003	0.0000	47.0974
Worker	7.7400e-003	5.4000e-003	0.0575	1.8000e-004	0.0211	1.3000e-004	0.0212	5.5900e-003	1.2000e-004	5.7100e-003	0.0000	16.2083	16.2083	3.9000e-004	0.0000	16.2181
Total	**0.0113**	**0.1418**	**0.0879**	**6.7000e-004**	**0.0332**	**2.6000e-004**	**0.0334**	**9.0800e-003**	**2.5000e-004**	**9.3300e-003**	**0.0000**	**63.2419**	**63.2419**	**2.9400e-003**	**0.0000**	**63.3155**

3.11 Paving - West Building - 2023

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	0.0135	0.0583	0.8302	1.0900e-003		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	96.1288	96.1288	0.0311	0.0000	96.9061
Paving	2.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0158**	**0.0583**	**0.8302**	**1.0900e-003**		**1.8000e-003**	**1.8000e-003**		**1.8000e-003**	**1.8000e-003**	**0.0000**	**96.1288**	**96.1288**	**0.0311**	**0.0000**	**96.9061**

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	3.5800e-003	0.1364	0.0304	4.9000e-004	0.0121	1.3000e-004	0.0122	3.4900e-003	1.3000e-004	3.6200e-003	0.0000	47.0336	47.0336	2.5500e-003	0.0000	47.0974
Worker	7.7400e-003	5.4000e-003	0.0575	1.8000e-004	0.0211	1.3000e-004	0.0212	5.5900e-003	1.2000e-004	5.7100e-003	0.0000	16.2083	16.2083	3.9000e-004	0.0000	16.2181
Total	**0.0113**	**0.1418**	**0.0879**	**6.7000e-004**	**0.0332**	**2.6000e-004**	**0.0334**	**9.0800e-003**	**2.5000e-004**	**9.3300e-003**	**0.0000**	**63.2419**	**63.2419**	**2.9400e-003**	**0.0000**	**63.3155**

3.12 Architectural Coatings - West Bldg - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7629					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.0996	0.0802	1.8000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	11.7843	11.7843	1.3100e-003	0.0000	11.8169
Total	**0.7789**	**0.0996**	**0.0802**	**1.8000e-004**		**4.4300e-003**	**4.4300e-003**		**4.4300e-003**	**4.4300e-003**	**0.0000**	**11.7843**	**11.7843**	**1.3100e-003**	**0.0000**	**11.8169**

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	5.8100e-003	4.0500e-003	0.0431	1.3000e-004	0.0158	1.0000e-004	0.0159	4.1900e-003	9.0000e-005	4.2800e-003	0.0000	12.1562	12.1562	2.9000e-004	0.0000	12.1636
Total	**5.8100e-003**	**4.0500e-003**	**0.0431**	**1.3000e-004**	**0.0158**	**1.0000e-004**	**0.0159**	**4.1900e-003**	**9.0000e-005**	**4.2800e-003**	**0.0000**	**12.1562**	**12.1562**	**2.9000e-004**	**0.0000**	**12.1636**

3.12 Architectural Coatings - West Bldg - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7629					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.0996	0.0802	1.8000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	11.7842	11.7842	1.3100e-003	0.0000	11.8169
Total	**0.7789**	**0.0996**	**0.0802**	**1.8000e-004**		**4.4300e-003**	**4.4300e-003**		**4.4300e-003**	**4.4300e-003**	**0.0000**	**11.7842**	**11.7842**	**1.3100e-003**	**0.0000**	**11.8169**

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	5.8100e-003	4.0500e-003	0.0431	1.3000e-004	0.0158	1.0000e-004	0.0159	4.1900e-003	9.0000e-005	4.2800e-003	0.0000	12.1562	12.1562	2.9000e-004	0.0000	12.1636
Total	**5.8100e-003**	**4.0500e-003**	**0.0431**	**1.3000e-004**	**0.0158**	**1.0000e-004**	**0.0159**	**4.1900e-003**	**9.0000e-005**	**4.2800e-003**	**0.0000**	**12.1562**	**12.1562**	**2.9000e-004**	**0.0000**	**12.1636**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4708	0.8495	6.1092	0.0183	2.0571	0.0134	2.0705	0.5470	0.0124	0.5594	0.0000	1,658.1154	1,658.1154	0.0598	0.0000	1,659.6103
Unmitigated	0.4708	0.8495	6.1092	0.0183	2.0571	0.0134	2.0705	0.5470	0.0124	0.5594	0.0000	1,658.1154	1,658.1154	0.0598	0.0000	1,659.6103

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,420.10	1,420.10	1420.10	5,200,168	5,200,168
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	83.16	83.16	83.16	304,501	304,501
Total	1,503.25	1,503.25	1,503.25	5,504,669	5,504,669

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.06	10.06	10.06	40.00	20.00	40.00	100	0	0
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.00	20.00	40.00	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	10.06	10.06	10.06	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.600000	0.060000	0.190000	0.120000	0.015000	0.005000	0.000000	0.000000	0.000000	0.000000	0.010000	0.000000	0.000000
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Condo/Townhouse	0.600000	0.060000	0.190000	0.120000	0.015000	0.005000	0.000000	0.000000	0.000000	0.000000	0.010000	0.000000	0.000000
Enclosed Parking with Elevator	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
General Office Building	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Recreational Swimming Pool	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Strip Mall	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

Alta Cuvee Mixed-Use Project - San Bernardino-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	453.9159	453.9159	0.0210	4.3400e-003	455.7337
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	461.7416	461.7416	0.0213	4.4200e-003	463.5908
NaturalGas Mitigated	0.0203	0.1737	0.0744	1.1100e-003		0.0140	0.0140		0.0140	0.0140	0.0000	201.0779	201.0779	3.8500e-003	3.6900e-003	202.2728
NaturalGas Unmitigated	0.0203	0.1737	0.0744	1.1100e-003		0.0140	0.0140		0.0140	0.0140	0.0000	201.0779	201.0779	3.8500e-003	3.6900e-003	202.2728

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.72494e+006	0.0201	0.1716	0.0730	1.1000e-003		0.0139	0.0139		0.0139	0.0139	0.0000	198.7769	198.7769	3.8100e-003	3.6400e-003	199.9581
City Park	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
Condo/Townhouse	21100	1.1000e-004	9.7000e-004	4.1000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1260	1.1260	2.0000e-005	2.0000e-005	1.1327
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	16611	9.0000e-005	8.1000e-004	6.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8864	0.8864	2.0000e-005	2.0000e-005	0.8917
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
Recreational Swimming Pool	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
Strip Mall	5407.92	3.0000e-005	2.7000e-004	2.2000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2886	0.2886	1.0000e-005	1.0000e-005	0.2903
Total		**0.0203**	**0.1737**	**0.0744**	**1.1100e-003**		**0.0140**	**0.0140**		**0.0140**	**0.0140**	**0.0000**	**201.0779**	**201.0779**	**3.8600e-003**	**3.6900e-003**	**202.2728**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.72494e+006	0.0201	0.1716	0.0730	1.1000e-003		0.0139	0.0139		0.0139	0.0139	0.0000	198.7769	198.7769	3.8100e-003	3.6400e-003	199.9581
City Park	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
Condo/Townhouse	21100	1.1000e-004	9.7000e-004	4.1000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1260	1.1260	2.0000e-005	2.0000e-005	1.1327
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	16611	9.0000e-005	8.1000e-004	6.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8864	0.8864	2.0000e-005	2.0000e-005	0.8917
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
Recreational Swimming Pool	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
Strip Mall	5407.92	3.0000e-005	2.7000e-004	2.2000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2886	0.2886	1.0000e-005	1.0000e-005	0.2903
Total		**0.0203**	**0.1737**	**0.0744**	**1.1100e-003**		**0.0140**	**0.0140**		**0.0140**	**0.0140**	**0.0000**	**201.0779**	**201.0779**	**3.8600e-003**	**3.6900e-003**	**202.2728**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.02564e+006	291.9232	0.0135	2.7900e-003	293.0923
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	4973.76	1.4157	7.0000e-005	1.0000e-005	1.4213
Enclosed Parking with Elevator	488566	139.0581	6.4300e-003	1.3300e-003	139.6150
General Office Building	50885	14.4831	6.7000e-004	1.4000e-004	14.5411
Parking Lot	22641.5	6.4443	3.0000e-004	6.0000e-005	6.4701
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	29573	8.4172	3.9000e-004	8.0000e-005	8.4509
Total		**461.7416**	**0.0214**	**4.4100e-003**	**463.5908**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	998148	284.0975	0.0131	2.7200e-003	285.2352
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	4973.76	1.4157	7.0000e-005	1.0000e-005	1.4213
Enclosed Parking with Elevator	488566	139.0581	6.4300e-003	1.3300e-003	139.6150
General Office Building	50885	14.4831	6.7000e-004	1.4000e-004	14.5411
Parking Lot	22641.5	6.4443	3.0000e-004	6.0000e-005	6.4701
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	29573	8.4172	3.9000e-004	8.0000e-005	8.4509
Total		**453.9159**	**0.0210**	**4.3400e-003**	**455.7337**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0161	0.0370	2.6888	1.8000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	11.4037	11.4037	4.3700e-003	1.3000e-004	11.5512
Unmitigated	1.0161	0.0370	2.6888	1.8000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	11.4037	11.4037	4.3700e-003	1.3000e-004	11.5512

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	0.0763					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.1000e-004	6.0500e-003	2.5800e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0120	7.0120	1.3000e-004	1.3000e-004	7.0537
Landscaping	0.0812	0.0309	2.6862	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3917	4.3917	4.2300e-003	0.0000	4.4975
Total	**1.0161**	**0.0370**	**2.6888**	**1.8000e-004**		**0.0154**	**0.0154**		**0.0154**	**0.0154**	**0.0000**	**11.4037**	**11.4037**	**4.3600e-003**	**1.3000e-004**	**11.5512**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0763					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.1000e-004	6.0500e-003	2.5800e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0120	7.0120	1.3000e-004	1.3000e-004	7.0537
Landscaping	0.0812	0.0309	2.6862	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3917	4.3917	4.2300e-003	0.0000	4.4975
Total	**1.0161**	**0.0370**	**2.6888**	**1.8000e-004**		**0.0154**	**0.0154**		**0.0154**	**0.0154**	**0.0000**	**11.4037**	**11.4037**	**4.3600e-003**	**1.3000e-004**	**11.5512**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	133.1215	0.8145	0.0203	159.5324
Unmitigated	145.1584	0.8950	0.0223	174.1769

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	24.2944 / 10.6385	131.3858	0.7974	0.0199	157.2423
City Park	0 / 0.393189	1.2433	6.0000e-005	1.0000e-005	1.2483
Condo/Townhouse	0 / 0.0410754	0.1299	1.0000e-005	0.0000	0.1304
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0.129772	0.4104	2.0000e-005	0.0000	0.4120
Strip Mall	2.97986 / 0	11.9890	0.0976	2.4000e-003	15.1440
Total		**145.1584**	**0.8951**	**0.0223**	**174.1769**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	22.1079 / 9.98957	120.5367	0.7256	0.0181	144.0699
City Park	0 / 0.369204	1.1675	5.0000e-005	1.0000e-005	1.1722
Condo/Townhouse	0 / 0.0385698	0.1220	1.0000e-005	0.0000	0.1225
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0.121855	0.3853	2.0000e-005	0.0000	0.3869
Strip Mall	2.71167 / 0	10.9100	0.0888	2.1800e-003	13.7810
Total		**133.1215**	**0.8145**	**0.0203**	**159.5324**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	122.9963	7.2689	0.0000	304.7181
Unmitigated	122.9963	7.2689	0.0000	304.7181

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	580.32	117.7997	6.9618	0.0000	291.8438
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.15	1.0454	0.0618	0.0000	2.5899
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	20.45	4.1512	0.2453	0.0000	10.2843
Total		**122.9963**	**7.2689**	**0.0000**	**304.7181**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	580.32	117.7997	6.9618	0.0000	291.8438
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.15	1.0454	0.0618	0.0000	2.5899
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	20.45	4.1512	0.2453	0.0000	10.2843
Total		**122.9963**	**7.2689**	**0.0000**	**304.7181**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Alta Cuvee Bus Bay

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	627.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity from 2020 RCMU Power Content Label: 630 lbCO2e/MWh (RCMU, 2021)

Land Use - Approximately 850 square feet + buffer.

Construction Phase - Schedule Provided

Off-road Equipment - Other material handling = concrete truck/pump.

Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory

Trips and VMT - Modeling accounts for 1 haul load/day during demolition.
Assume 10 workers/day throughout.

Demolition -

Grading -

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403 BMPs: watering thrice daily.
Clean Fleet BMP: Tier 4 Equipment > 25 hp

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	1.00	24.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	627.49
tblTripsAndVMT	HaulingTripNumber	2.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	20.00
tblTripsAndVMT	WorkerTripNumber	18.00	20.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0144	0.1143	0.1640	3.1000e-004	0.0156	4.6700e-003	0.0202	6.6800e-003	4.4000e-003	0.0111	0.0000	26.0615	26.0615	5.6000e-003	0.0000	26.2016
Maximum	**0.0144**	**0.1143**	**0.1640**	**3.1000e-004**	**0.0156**	**4.6700e-003**	**0.0202**	**6.6800e-003**	**4.4000e-003**	**0.0111**	**0.0000**	**26.0615**	**26.0615**	**5.6000e-003**	**0.0000**	**26.2016**

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					
2024	8.5200e-003	0.0574	0.1775	3.1000e-004	9.9100e-003	1.2000e-003	0.0111	3.6300e-003	1.2000e-003	4.8300e-003	0.0000	26.0615	26.0615	5.6000e-003	0.0000	26.2016
Maximum	**8.5200e-003**	**0.0574**	**0.1775**	**3.1000e-004**	**9.9100e-003**	**1.2000e-003**	**0.0111**	**3.6300e-003**	**1.2000e-003**	**4.8300e-003**	**0.0000**	**26.0615**	**26.0615**	**5.6000e-003**	**0.0000**	**26.2016**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**40.87**	**49.81**	**-8.23**	**0.00**	**36.27**	**74.30**	**45.05**	**45.66**	**72.73**	**56.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-8-2024	4-7-2024	0.1225	0.0629
		Highest	0.1225	0.0629

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	8.0000e-005	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

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	8.0000e-005	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Alta Cuvee Bus Bay - San Bernardino-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/8/2024	1/20/2024	6	12	
2	Site Preparation	Site Preparation	1/22/2024	2/17/2024	6	24	
3	Building Construction	Building Construction	2/19/2024	3/6/2024	6	15	
4	Paving	Paving	3/7/2024	3/9/2024	6	3	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.02

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Alta Cuvee Bus Bay - San Bernardino-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	4.00	78	0.48
Demolition	Concrete/Industrial Saws	1	2.00	81	0.73
Demolition	Signal Boards	2	8.00	6	0.82
Demolition	Skid Steer Loaders	1	6.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Plate Compactors	1	4.00	8	0.43
Site Preparation	Rubber Tired Dozers	1	1.00	247	0.40
Site Preparation	Signal Boards	2	8.00	6	0.82
Site Preparation	Skid Steer Loaders	1	6.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Other Material Handling Equipment	1	6.00	168	0.40
Building Construction	Rough Terrain Forklifts	1	6.00	100	0.40
Building Construction	Signal Boards	2	8.00	6	0.82
Building Construction	Skid Steer Loaders	1	6.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Signal Boards	2	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	20.00	0.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1000e-004	0.0000	2.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8100e-003	0.0231	0.0326	5.0000e-005		1.0000e-003	1.0000e-003		9.6000e-004	9.6000e-004	0.0000	4.4153	4.4153	8.1000e-004	0.0000	4.4357
Total	**2.8100e-003**	**0.0231**	**0.0326**	**5.0000e-005**	**2.1000e-004**	**1.0000e-003**	**1.2100e-003**	**3.0000e-005**	**9.6000e-004**	**9.9000e-004**	**0.0000**	**4.4153**	**4.4153**	**8.1000e-004**	**0.0000**	**4.4357**

3.2 Demolition - 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	4.0000e-005	1.4200e-003	3.2000e-004	1.0000e-005	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.7053	0.7053	3.0000e-005	0.0000	0.7062
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.1000e-004	3.3500e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	0.9802	0.9802	2.0000e-005	0.0000	0.9807
Total	**5.0000e-004**	**1.7300e-003**	**3.6700e-003**	**2.0000e-005**	**1.4900e-003**	**1.0000e-005**	**1.4900e-003**	**4.0000e-004**	**1.0000e-005**	**4.1000e-004**	**0.0000**	**1.6855**	**1.6855**	**5.0000e-005**	**0.0000**	**1.6869**

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					8.0000e-005	0.0000	8.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3000e-003	0.0112	0.0343	5.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	4.4153	4.4153	8.1000e-004	0.0000	4.4357
Total	**1.3000e-003**	**0.0112**	**0.0343**	**5.0000e-005**	**8.0000e-005**	**2.3000e-004**	**3.1000e-004**	**1.0000e-005**	**2.3000e-004**	**2.4000e-004**	**0.0000**	**4.4153**	**4.4153**	**8.1000e-004**	**0.0000**	**4.4357**

3.2 Demolition - 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	4.0000e-005	1.4200e-003	3.2000e-004	1.0000e-005	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.7053	0.7053	3.0000e-005	0.0000	0.7062
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.1000e-004	3.3500e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	0.9802	0.9802	2.0000e-005	0.0000	0.9807
Total	**5.0000e-004**	**1.7300e-003**	**3.6700e-003**	**2.0000e-005**	**1.4900e-003**	**1.0000e-005**	**1.4900e-003**	**4.0000e-004**	**1.0000e-005**	**4.1000e-004**	**0.0000**	**1.6855**	**1.6855**	**5.0000e-005**	**0.0000**	**1.6869**

3.3 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0300e-003	0.0000	9.0300e-003	4.9700e-003	0.0000	4.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5200e-003	0.0413	0.0458	8.0000e-005		1.7100e-003	1.7100e-003		1.6100e-003	1.6100e-003	0.0000	6.4881	6.4881	1.8200e-003	0.0000	6.5336
Total	**4.5200e-003**	**0.0413**	**0.0458**	**8.0000e-005**	**9.0300e-003**	**1.7100e-003**	**0.0107**	**4.9700e-003**	**1.6100e-003**	**6.5800e-003**	**0.0000**	**6.4881**	**6.4881**	**1.8200e-003**	**0.0000**	**6.5336**

3.3 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.1000e-004	6.6900e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	1.9603	1.9603	4.0000e-005	0.0000	1.9614
Total	**9.1000e-004**	**6.1000e-004**	**6.6900e-003**	**2.0000e-005**	**2.6300e-003**	**2.0000e-005**	**2.6500e-003**	**7.0000e-004**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**1.9603**	**1.9603**	**4.0000e-005**	**0.0000**	**1.9614**

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					3.5200e-003	0.0000	3.5200e-003	1.9400e-003	0.0000	1.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5700e-003	0.0228	0.0494	8.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.4881	6.4881	1.8200e-003	0.0000	6.5336
Total	**2.5700e-003**	**0.0228**	**0.0494**	**8.0000e-005**	**3.5200e-003**	**4.9000e-004**	**4.0100e-003**	**1.9400e-003**	**4.9000e-004**	**2.4300e-003**	**0.0000**	**6.4881**	**6.4881**	**1.8200e-003**	**0.0000**	**6.5336**

3.3 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.1000e-004	6.6900e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	1.9603	1.9603	4.0000e-005	0.0000	1.9614
Total	**9.1000e-004**	**6.1000e-004**	**6.6900e-003**	**2.0000e-005**	**2.6300e-003**	**2.0000e-005**	**2.6500e-003**	**7.0000e-004**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**1.9603**	**1.9603**	**4.0000e-005**	**0.0000**	**1.9614**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9900e-003	0.0367	0.0590	9.0000e-005		1.5500e-003	1.5500e-003		1.4400e-003	1.4400e-003	0.0000	7.7934	7.7934	2.3700e-003	0.0000	7.8528
Total	**3.9900e-003**	**0.0367**	**0.0590**	**9.0000e-005**		**1.5500e-003**	**1.5500e-003**		**1.4400e-003**	**1.4400e-003**	**0.0000**	**7.7934**	**7.7934**	**2.3700e-003**	**0.0000**	**7.8528**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	2.1400e-003	4.6000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7341	0.7341	4.0000e-005	0.0000	0.7351
Worker	5.7000e-004	3.8000e-004	4.1800e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2252	1.2252	3.0000e-005	0.0000	1.2259
Total	**6.3000e-004**	**2.5200e-003**	**4.6400e-003**	**2.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8400e-003**	**4.9000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.9593**	**1.9593**	**7.0000e-005**	**0.0000**	**1.9610**

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	2.0000e-003	0.0156	0.0659	9.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	7.7934	7.7934	2.3700e-003	0.0000	7.8527
Total	**2.0000e-003**	**0.0156**	**0.0659**	**9.0000e-005**		**3.4000e-004**	**3.4000e-004**		**3.4000e-004**	**3.4000e-004**	**0.0000**	**7.7934**	**7.7934**	**2.3700e-003**	**0.0000**	**7.8527**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	2.1400e-003	4.6000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7341	0.7341	4.0000e-005	0.0000	0.7351
Worker	5.7000e-004	3.8000e-004	4.1800e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2252	1.2252	3.0000e-005	0.0000	1.2259
Total	**6.3000e-004**	**2.5200e-003**	**4.6400e-003**	**2.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8400e-003**	**4.9000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.9593**	**1.9593**	**7.0000e-005**	**0.0000**	**1.9610**

3.5 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	9.3000e-004	8.0900e-003	0.0108	2.0000e-005		3.7000e-004	3.7000e-004		3.5000e-004	3.5000e-004	0.0000	1.4412	1.4412	4.1000e-004	0.0000	1.4515
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.6000e-004**	**8.0900e-003**	**0.0108**	**2.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.4412**	**1.4412**	**4.1000e-004**	**0.0000**	**1.4515**

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.1000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0734	0.0734	0.0000	0.0000	0.0735
Worker	1.1000e-004	8.0000e-005	8.4000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2450	0.2450	1.0000e-005	0.0000	0.2452
Total	**1.2000e-004**	**2.9000e-004**	**8.9000e-004**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3185**	**0.3185**	**1.0000e-005**	**0.0000**	**0.3187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7000e-004	2.6300e-003	0.0120	2.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4412	1.4412	4.1000e-004	0.0000	1.4515
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0000e-004**	**2.6300e-003**	**0.0120**	**2.0000e-005**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**1.4412**	**1.4412**	**4.1000e-004**	**0.0000**	**1.4515**

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.1000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0734	0.0734	0.0000	0.0000	0.0735
Worker	1.1000e-004	8.0000e-005	8.4000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2450	0.2450	1.0000e-005	0.0000	0.2452
Total	**1.2000e-004**	**2.9000e-004**	**8.9000e-004**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3185**	**0.3185**	**1.0000e-005**	**0.0000**	**0.3187**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830

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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas 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
NaturalGas 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

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					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.0000e-005	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	8.0000e-005	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**7.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**7.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation