Appendix B

Air Quality Regulatory Setting, Air Quality and Greenhouse Gas Technical Reports, and Energy Calculations

Air Quality Regulatory Setting

Regulatory Setting

Federal

Massachusetts v. U.S. Environmental Protection Agency

On April 2, 2007, in *Massachusetts v. EPA*, the U.S. Supreme Court ruled that CO_2 was a pollutant and directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In making these decisions, the EPA administrator is required to follow the language of Section 202(a) of the Clean Air Act. On December 7, 2009, the administrator signed a final rule with two distinct findings regarding GHGs under Section 202(a) of the Clean Air Act:

- The elevated concentrations of GHGs—CO_2, CH4, N_2O, hydrofluorocarbons, perfluorocarbons, and SF6—in the atmosphere threaten the public health and welfare of current and future generations. This is referred to as the "endangerment finding."

- The combined emissions of GHGs—CO_2, CH_4, N_2O, and hydrofluorocarbons—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is referred to as the "cause or contribute finding."

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the Clean Air Act.

Energy Independence and Security Act

The Energy Independence and Security Act of 2007 (Public Law 110-140), among other key measures, would do the following, which would aid in the reduction of national GHG emissions:

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.

- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020, and direct National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.

- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy-efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

State

The statewide GHG emissions regulatory framework is summarized in this subsection by category: state climate change targets, building energy, renewable energy and energy procurement, mobile

sources, water, solid waste, and other state actions. The following text describes EOs, Assembly Bills (ABs), Senate Bills (SBs), and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues.

State Climate Change Targets

California Air Resources Board's Regulations for the Mandatory Reporting of GHG Emissions

CARB's Regulation for the Mandatory Reporting of GHG Emissions (17 CCR 95100–95157) incorporated by reference certain requirements that EPA promulgated in its Final Rule on Mandatory Reporting of GHGs (40 CFR, Section 98). Specifically, Section 95100(c) of the Mandatory Reporting Regulation incorporated those requirements that EPA promulgated in the Federal Register on October 30, 2009; July 12, 2010; September 22, 2010; October 28, 2010; November 30, 2010; December 17, 2010; and April 25, 2011. In general, entities subject to the Mandatory Reporting Regulation that emit over 10,000 MT CO_2e per year are required to report annual GHG emissions through the California Electronic GHG Reporting Tool. Certain sectors, such as refineries and cement plants, are required to report regardless of emission levels. Entities that emit more than the 25,000 MT CO_2e per year threshold are required to have their GHG emissions report verified by a CARB-accredited third party.

Executive Order B-18-12

EO B-18-12 (April 2012) directed state agencies, departments, and other entities under the Governor's executive authority to take action to reduce entity-wide GHG emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline. EO B-18-12 also identified goals for existing state buildings for reducing grid-based energy purchases and water use.

Senate Bill 605 and Senate Bill 1383

SB 605 (2014) requires CARB to complete a comprehensive strategy to reduce emissions of SLCPs in the state (California Health and Safety Code Section 39730) and SB 1383 (2016) requires CARB to approve and implement that strategy by January 1, 2018 (California Public Resources Code Sections 42652–43654). SB 1383 also establishes specific targets for the reduction of SLCPs (40% below 2013 levels by 2030 for CH_4 and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon) and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its SLCP Reduction Strategy in March 2017 (CARB 2017). The SLCP Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, methane, and fluorinated gases (CARB 2017).

Assembly Bill 1757

AB 1757 (September 2022) requires the CNRA to determine a range of targets for natural carbon sequestration, and for nature-based climate solutions that reduce GHG emissions for future years 2030, 2038, and 2045. These targets are to be determined by no later than January 1, 2024, and are established to support the state's goals to achieve carbon neutrality and foster climate adaptation and resilience.

Building Energy

Renewable Energy and Energy Procurement

SB 1078 (2002) (California Public Utilities Code Section 399.11 et seq.) established the Renewables Portfolio Standard (RPS) program, which required an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20% of their power from renewable sources by 2010 (see SB 107, EO S-14-08, and EO S-21-09).

SB 1368 (2006), required CEC to develop and adopt regulations for GHG emission performance standards for the long-term procurement of electricity by local publicly owned utilities (California Public Utilities Code Section 8340–8341). These standards must be consistent with the standards adopted by the California Public Utilities Commission (CPUC).

EO S-14-08 (2008) focused on the contribution of renewable energy sources to meet the electrical needs of California while reducing the GHG emissions from the electrical sector. This EO required that all retail suppliers of electricity in California serve 33% of their load with renewable energy by 2020. Furthermore, the EO directed state agencies to take appropriate actions to facilitate reaching this target. CNRA, in collaboration with CEC and the California Department of Fish and Wildlife, was directed to lead this effort.

EO S-21-09 (2009) directed CARB to adopt a regulation consistent with the goal of EO S-14-08 by July 31, 2010. CARB was further directed to work with CPUC and CEC to ensure that the regulation builds upon the RPS program and was applicable to investor-owned utilities, publicly owned utilities, direct access providers, and community choice providers. Under this order, CARB was to give the highest priority to those renewable resources that provide the greatest environmental benefits with the least environmental costs and impacts on public health, and those that can be developed the most quickly in support of reliable, efficient, cost-effective electricity system operations. On September 23, 2010, CARB initially approved regulations to implement a Renewable Electricity Standard; however, this regulation was not finalized because of subsequent legislation (SB X1-2) signed by Governor Brown in April 2011.

SB X1-2 expanded RPS by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (30 megawatts or less), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location. SB X1-2 applies to all electricity retailers in the state, including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All these entities must meet the renewable energy goals listed above.

Mobile Sources

Heavy-Duty Diesel

CARB adopted the final Heavy-Duty Truck and Bus Regulation on December 31, 2014, to reduce DPM, a major source of black carbon, and NO_x emissions from heavy-duty diesel vehicles (13 CCR, Part 2025). The rule requires that DPM filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule will require nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an Airborne Toxics Control Measure to limit idling of diesel-fueled commercial vehicles on December 12, 2013. This rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than 5 minutes at any location (13 CCR, Part 2485).

Advanced Clean Trucks Regulation

The Advanced Clean Trucks (ACT) Regulation was also approved by CARB in 2020. The purpose of the ACT Regulation is to accelerate the market for ZEVs in the medium- and heavy-duty truck sector and to reduce air pollutant emissions generated from on-road mobile sources (CARB 2021). The regulation has two components, (1) a manufacturer sales requirement and (2) a reporting requirement:

- **Zero-emission truck sales:** Manufacturers who certify Class 2b–8 chassis or complete vehicles with combustion engines will be required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales would need to be 55% of Class 2b–3 truck sales, 75% of Class 4–8 straight truck sales, and 40% of truck tractor sales.

- **Company and fleet reporting:** Large employers including retailers, manufacturers, brokers, and others will be required to report information about shipments and shuttle services. Fleet owners with 50 or more trucks will be required to report about their existing fleet operations. This information will help identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

Water

Senate Bill X7-7, Executive Order B-29-15, and Executive Order N-10-21

SB X7-7, or the Water Conservation Act of 2009, required that all water suppliers increase their water use efficiency with an overall goal of reducing per capita urban water use by 20% by December 31, 2020. Each urban water supplier was required to develop water use targets to meet this goal.

In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the EO extended through February 28, 2016, although many of the directives have become permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the state. In response to EO B-29-15, the California Department of Water Resources modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other

changes, significantly increases the requirements for landscape water use efficiency and broadens its applicability to include new development projects with smaller landscape areas.

In response to a state of emergency due to severe drought conditions, EO N-10-21 (July 2021) called on all Californians to voluntarily reduce their water use by 15% from their 2020 levels. Actions suggested in EO N-10-21 include reducing landscape irrigation, running dishwashers and washing machines only when full, finding and fixing leaks, installing water-efficient showerheads, taking shorter showers, using a shut-off nozzle on hoses, and taking cars to commercial car washes that use recycled water.

Solid Waste

Assembly Bill 939, Assembly Bill 341, Assembly Bill 1826, and Senate Bill 1383

In 1989, AB 939, known as the Integrated Waste Management Act (California Public Resources Code Section 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board (replaced in 2010 by the California Department of Resources Recycling and Recovery, or CalRecycle), which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by the year 2000.

AB 341 (2011) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by the year 2020, and annually thereafter. In addition, AB 341 required CalRecycle to develop strategies to achieve the state's policy goal. CalRecycle has conducted multiple workshops and published documents that identify priority strategies that it believes would assist the state in reaching the 75% goal by 2020.

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. The minimum threshold of organic waste generation by businesses decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

SB 1383 (2016) requires a 50% reduction in organic waste disposal from 2014 levels by 2020 and a 75% reduction by 2025—essentially requiring the diversion of up to 27 million tons of organic waste—to reduce GHG emissions. SB 1383 also requires that not less than 20% of edible food that is currently disposed be recovered for human consumption by 2025.

Other State Actions

Executive Order S-13-08

EO S-13-08 (November 2008) was intended to hasten California's response to the impacts of global climate change, particularly sea-level rise. Therefore, the EO directs state agencies to take specified actions to assess and plan for such impacts. The final 2009 California Climate Adaptation Strategy report was issued in December 2009, and an update, Safeguarding California: Reducing Climate Risk, followed in July 2014. To assess the state's vulnerability, the report summarizes key climate change impacts to the state for the following areas: agriculture, biodiversity and habitat, emergency management, energy, forestry, ocean and coastal ecosystems and resources, public health, transportation, and water. Issuance of Safeguarding California: Implementation Action Plans followed in March 2016. In January 2018, CNRA released the Safeguarding California Plan: 2018 Update, which communicates current and needed actions that state government should take to build climate change resiliency.

References

CARB (California Air Resources Board). 2017. Short-Lived Climate Pollutant Reduction Strategy. March 2017. Accessed May 2019. https://www.arb.ca.gov/cc/shortlived/meetings/03142017/final_slcp_report.pdf.

CARB. 2021. Advanced Clean Trucks Fact Sheet. August 20, 2021. https://ww2.arb.ca.gov/sites/default/files/2021-08/200625factsheet_ADA.pdf

Air Quality and Greenhouse Gas Impact Analysis (April 2024)

Air Quality and Greenhouse Gas Impact Analysis

Creekside Village Specific Plan Project

Prepared for:
Winn Communities

April 2024

Prepared by
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INTRODUCTION

This Air Quality and Greenhouse Gas Impact Analysis identifies and analyzes the potential environmental impacts from the Creekside Village Specific Plan Project (proposed project) related to air quality and greenhouse gas (GHG) emissions. The information and analysis in this document are organized in accordance with the checklist in Appendix G of the California Environmental Quality Act (CEQA) Guidelines. If the analysis provided in this document identifies potentially significant environmental effects of the project, mitigation measures that should be applied to the project are prescribed. All modeling results are included as an appendix to this document.

PROJECT SUMMARY

The approximately 208-acre project site is generally located west of the intersection of Royal Oaks Drive and Latrobe Road in the southern portion of El Dorado Hills in El Dorado County, California (see Figure 1). The project site is currently undeveloped and covered in ruderal grasses. Surrounding land uses include a business park and John Adams Academy to the north, single-family residences to the northeast and northwest, and vacant land to the south (see Figure 2). The El Dorado County General Plan designates the site as Research and Development and the site is zoned Research and Development – Design Review Community (R&D-DC).

The nearest sensitive receptors to the project site are the single-family residences across Latrobe Road, approximately 100 feet east of the project site. In addition, potential impacts to John Adams Academy, located approximately 1,000 feet north of the project site, are considered in this analysis. Furthermore, single-family residences exist along the east side of Latrobe Road, along Off-Site Improvement IV (discussed below). It is noted that the vacant land to the south of the project site is planned for residential development in the future.

The proposed project would include the development of 918 single-family residences, 1.8 acres of neighborhood commercial uses, and three parks totaling 13.6 acres (see Figure 3 and Figure 4). The remainder of the project site is proposed for open space and roadway infrastructure improvements. The neighborhood commercial portion of the site is anticipated to be developed with uses such as convenience stores, professional offices, and coffee shops, and would be developed with a maximum of 5,400 square feet (sf) of building area.

It should be noted that the potential exists for the 1.8-acres of neighborhood commercial to be used as parkland; however, in order to provide a conservative analysis, the analysis herein assumes buildout of the 1.8-acres with neighborhood commercial uses, which would result in greater emissions than if the site was developed with a park.

In addition, the proposed project would include several off-site improvements, listed below, and depicted in Figure 5.

I. Intersection improvements at Latrobe Road and Town Center Boulevard;
II. Intersection improvements at Royal Oaks Drive/Latrobe Road and Avanti Drive/Latrobe Road;
III. Connecting proposed Drive I to existing Robert J Mathews Parkway as a pedestrian/bicycle access and connecting a waterline from the proposed Drive I to the existing line in Robert J. Mathews Parkway; and
IV. Extending a wastewater force main northward along Latrobe Road, from the project site to the El Dorado Irrigation Water Treatment Plant.

Figure 1
Regional Project Location

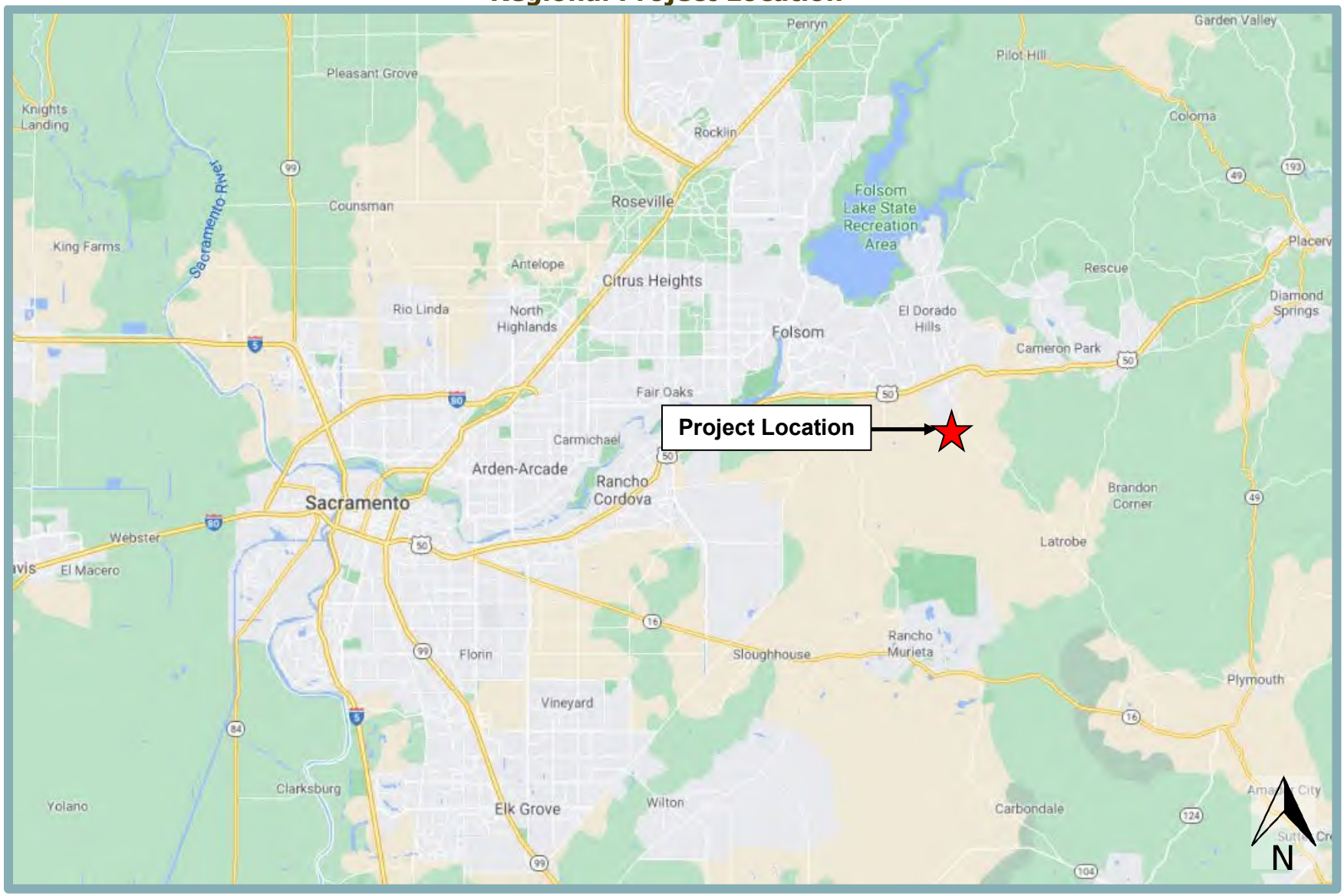


Figure 2
Project Vicinity Map

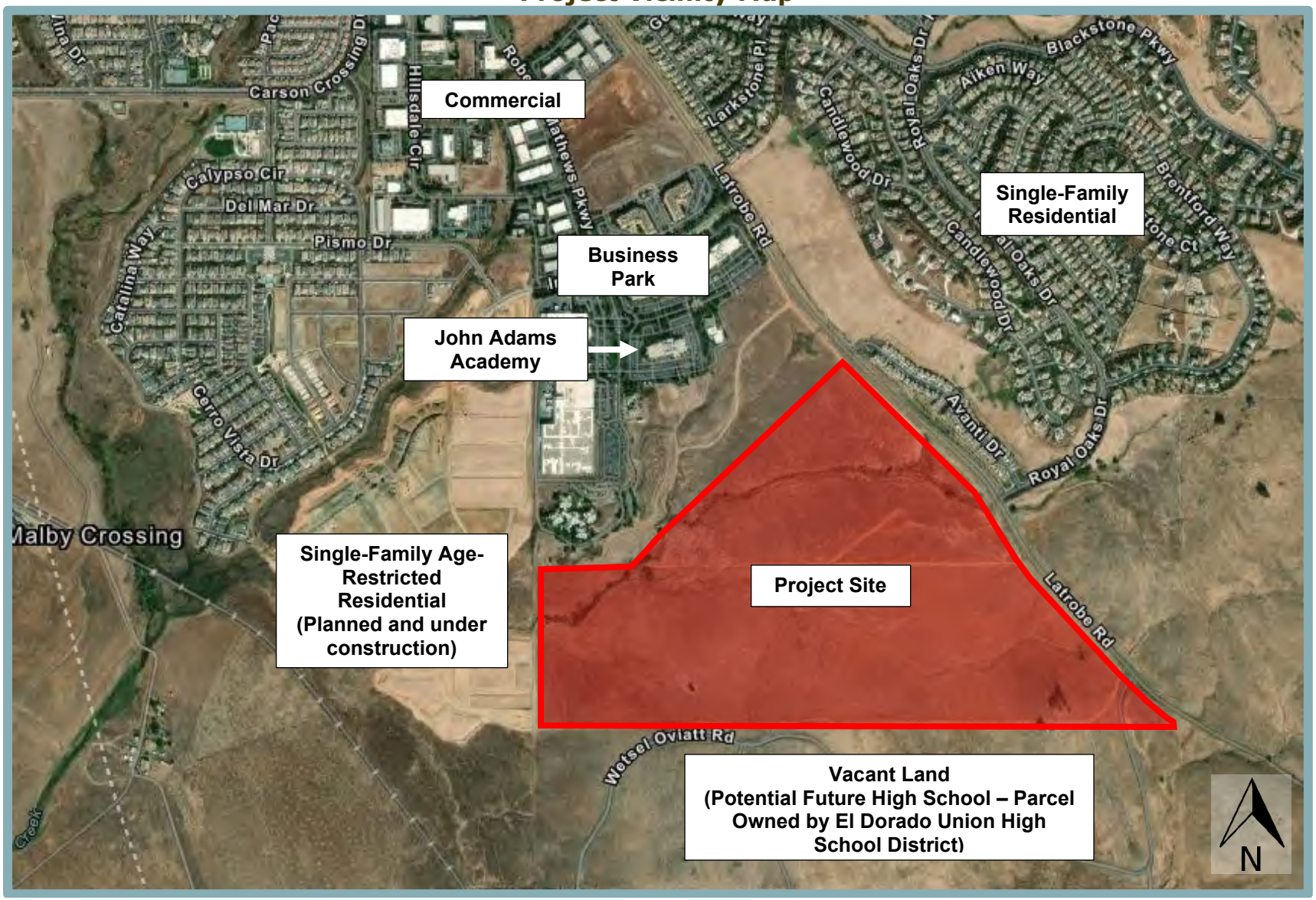


Figure 3
Land Use Designations

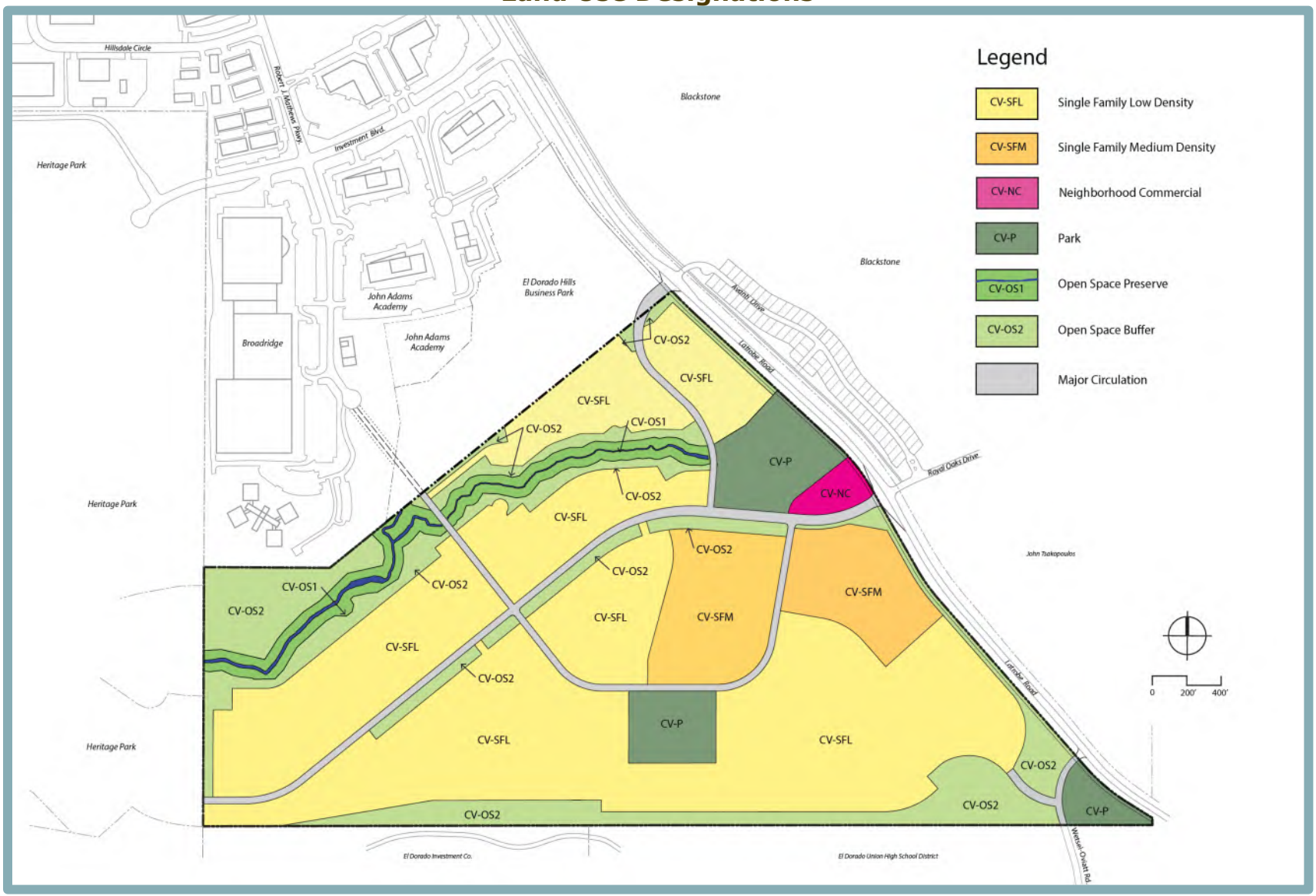


Figure 4
Tentative Subdivision Map

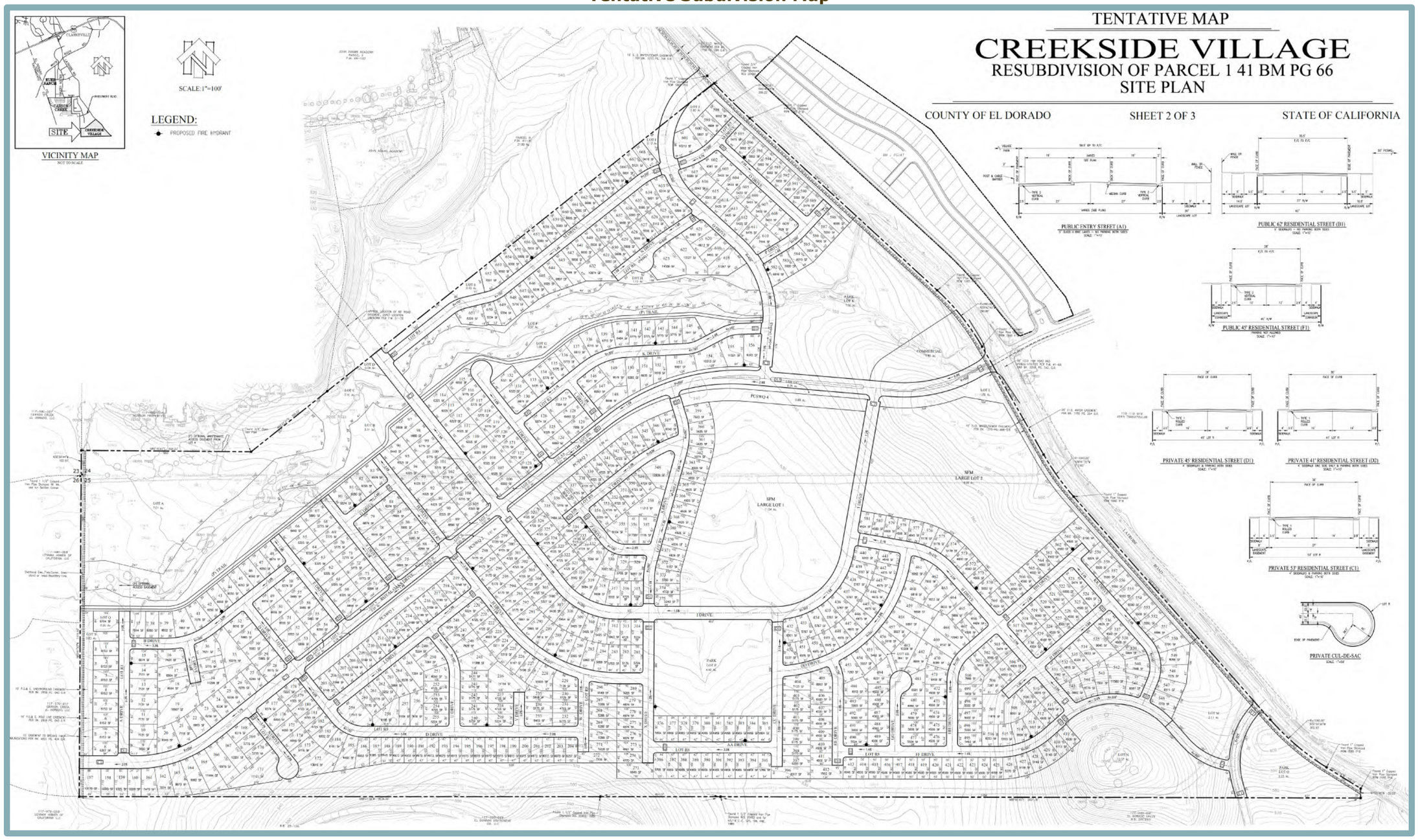
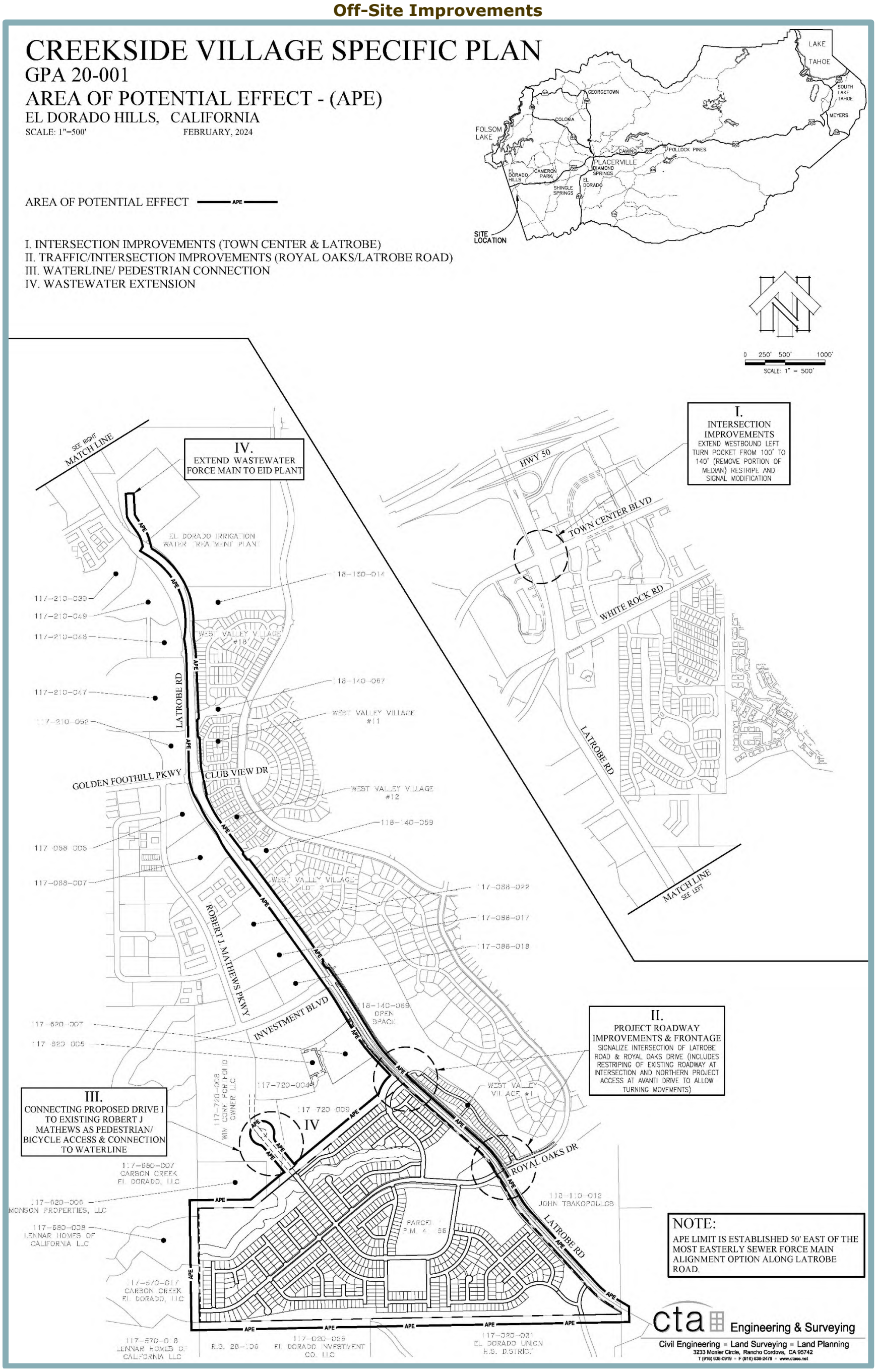


Figure 5
Off-Site Improvements



SOURCES

1. California Air Resources Board. *California Cap-and-Trade Program Summary*. Available at: https://ww2.arb.ca.gov/sites/default/files/2020-08/results_summary.pdf. Accessed February 2024.
2. California Air Resources Board. *2022 Scoping Plan for Achieving Carbon Neutrality*. November 16, 2022.
3. El Dorado County Air Pollution Control District. *Guide to Air Quality Assessment: Determining Significance of Air Quality Impacts Under the California Environmental Quality Act*. February 2002.
4. El Dorado County. *Asbestos Review Areas, Western Slope, County of El Dorado, State of California*. August 24, 2018. Available at: https://www.edcgov.us/Government/AirQualityManagement/Pages/asbestos_maps.aspx. Accessed February 2024.
5. Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments* [pg. 8-18]. February 2015.
6. Rania Serieh, Air Quality Engineer at El Dorado County Air Pollution Control District. Personal Communication [phone] with Briette Shea, Associate/Air Quality Technician at Raney Planning & Management, Inc. October 22, 2020; Personal Communication [email] with Karen Huss, Air Quality Specialist at Raney Planning & Management, Inc. August 31, 2023.
7. Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment, Chapter 6: Greenhouse Gas Emissions.* February 2021.
8. T. Kear Transportation Planning and Management. *Creekside Village CEQA VMT Analysis.* January 30, 2024.
9. U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.

III. AIR QUALITY. *Would the project:*	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Conflict with or obstruct implementation of the applicable air quality plan?	✖	☐	☐	☐
b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	✖	☐	☐	☐
c. Expose sensitive receptors to substantial pollutant concentrations?	✖	☐	☐	☐
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	✖	☐

Discussion

a,b. The project site is located within the El Dorado County portion of the Mountain Counties Air Basin (MCAB), which is under the jurisdiction of the El Dorado County Air Quality Management District (EDCAQMD). Under State and federal law, the California Air Resources Board (CARB) is required to designate areas of the State as attainment, nonattainment, or unclassified with respect to the State and national ambient air quality standards (AAQS). The El Dorado County portion of the MCAB is designated as nonattainment for the State and federal ozone, State particulate matter 10 microns in diameter (PM_{10}), and federal particulate matter 2.5 microns in diameter ($PM_{2.5}$) standards, and attainment or unclassified for all other AAQS. The U.S. Environmental Protection Agency (USEPA) requires states with areas designated as nonattainment for national AAQS to prepare State Implementation Plans (SIP) that demonstrate attainment and maintenance of the national AAQS. The SIP contains the strategies and control measures for states to use to attain the national AAQS. The SIP is periodically modified to reflect the latest emissions inventories, planning documents, rules, and regulations of air basins as reported by the agencies with jurisdiction over them.

Due to the nonattainment designations, the EDCAQMD, along with the other air districts in the nonattainment areas, is required to develop plans to attain the federal and State standards for ozone and particulate matter. According to the EDCAQMD, the applicable attainment plan is the *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan* (2017 Ozone Attainment Plan), adopted September 12, 2017. The USEPA determined the motor vehicle emission budgets in the 2017 Ozone Attainment Plan to be adequate and on October 22, 2021, the USEPA approved the 2017 Ozone Attainment Plan.

The 2017 Ozone Attainment Plan demonstrates how existing and new control strategies would provide the necessary future emission reductions to meet the CAA requirements, including the NAAQS. The MCAB remains classified as a nonattainment area with an attainment deadline of July 2025.

According to the EDCAQMD, if a project can demonstrate consistency with the 2017 Ozone Attainment Plan, the project would not be considered to have a significant cumulative air quality impact with respect to ozone. Per the EDCAQMD's Guide to Air Quality Assessment, development projects within the MCAB portion of the County are considered consistent with the Attainment Plan if:

- The project does not require a change in existing land use designation, and project emissions of ROG and NO_X from the project are equal to or less than the emissions anticipated for the site if developed under the existing land use designation;
- The project does not exceed the EDCAQMD's thresholds of significance for ROG and NO_X;
- The lead agency requires the project to implement any applicable emission reduction measures contained in and/or derived from the 2017 Ozone Attainment Plan;
- The project complies with all applicable EDCAQMD rules and regulations.[1]

According to the CEQA Guidelines, an air quality impact may be considered significant if the proposed project's implementation would result in, or potentially result in, conditions, which violate any existing local, State or federal air quality regulations. In order to evaluate ozone and other criteria air pollutant emissions and support attainment goals for those pollutants designated as nonattainment in the area, the EDCAQMD has established significance thresholds associated with development projects for emissions of reactive organic gases (ROG) and nitrogen oxide (NO_x) emissions. If a project would result in mass emissions in excess of the thresholds of significance, the project could affect the EDCAQMD's commitment to attainment of the federal AAQS for ozone and, thus, could result in a significant adverse impact on air quality in the region.

Thresholds for PM_{10} or other pollutants, including CO, PM, SO_2, NO_2, sulfates, lead, and H_2S, have not yet been established by the EDCAQMD. However, a project could be considered to have a significant impact on air quality if it would cause or contribute significantly to a violation of the applicable AAQS. According to the EDCAQMD CEQA Guide, if construction-related ROG and NO_X mass emissions are determined to be less than significant, the assumption could be made that construction-related exhaust emissions of other air pollutants from the operation of equipment and worker commute vehicles would also be less than significant.[2] Similarly, according to EDCAQMD's operational screening levels for CO and PM_{10}, if a project is anticipated to be below significance for ROG and NO_X, the project's CO and PM_{10} emissions are expected to be insignificant as well.

The significance thresholds, expressed in pounds per day (lbs/day), listed in Table 1 are the EDCAQMD's current thresholds of significance for use in the evaluation of air quality impacts associated with proposed development projects. Thus, if the proposed project's emissions exceed the pollutant thresholds presented in Table 1, the project could have a significant effect on air quality, the attainment of federal and State AAQS, and could conflict with or obstruct implementation of the applicable air quality plan.

Table 1
EDCAQMD Thresholds of Significance

Pollutant	Construction Threshold (lbs/day)	Operational Threshold (lbs/day)
ROG	82	82
NO_X	82	82

Source: EDCAQMD. CEQA Guide. 2002.

[1] El Dorado County Air Pollution Control District. *Guide to Air Quality Assessment: Determining Significance of Air Quality Impacts Under the California Environmental Quality Act*. February 2002.

[2] *Ibid.*

Implementation of the proposed project would contribute local emissions in the area during both the construction and operation of the proposed project. The proposed project's construction and operational emissions were estimated using the California Emissions Estimator Model (CalEEMod) version 2022.1.1.21 – a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including construction data, trip generation rates, vehicle mix, trip length, average speed, compliance with the California Building Standards Code (CBSC), etc. Where project-specific data was available, such data was input into the model (e.g., construction phases and timing, inherent site or project design features, compliance with applicable regulations, etc.). Accordingly, the proposed project's modeling conservatively assumed the following:

- Construction would begin in June of 2025;
- Construction would occur over approximately four years;
- Trip generation rates and vehicle miles traveled (VMT) were adjusted consistent with the project-specific trip generation rates and VMT provided by T. Kear Transportation Planning and Management;
- Natural gas fireplaces would be installed in all 918 proposed residences.

CalEEMod was also used to model construction of the off-site improvements, including Off-Site Improvement IV, which would require construction along a 1.5-mile stretch of Latrobe Road.

All CalEEMod results are included in Appendix A.

The results of the emissions analysis for construction and operational emissions are discussed separately below.

Construction Emissions

During construction of the project, various types of equipment and vehicles would temporarily operate on the project site. Construction-related emissions would be generated from construction equipment, earth movement activities, construction workers' commute, and construction material hauling for the entire construction period. The aforementioned activities would involve the use of diesel- and gasoline-powered equipment that would generate emissions of criteria pollutants. Estimated unmitigated construction-related emissions are presented in Table 2.

Table 2
Maximum Unmitigated Construction Emissions (lbs/day)

	ROG	NO_X
Project Emissions	50.51	33.29
EDCAQMD Significance Threshold	**82.0**	**82.0**
Exceeds Threshold?	**NO**	**NO**

Source: CalEEMod, February 2024/April 2024 (see Appendix A).

As shown in Table 2, the project's construction-related emissions would be below the applicable EDCAQMD thresholds of significance for ROG and NO_X.

The project is required to comply with all EDCAQMD rules and regulations for construction, including, but not limited to, the following, which would be noted on County-approved construction plans:

- Rule 202 related to visible emissions;
- Rule 215 related to architectural coatings;
- Rule 223 related to fugitive dust;
- Rule 224 related to cutback asphalt paving material, and
- Rule 300 related to open burning.

The EDCAQMD screening approach for fugitive dust (PM_{10}) emissions is based on dust suppression measures that would prevent visible emissions beyond the boundaries of the project site. If such measures are incorporated into the design of the project, then further calculation to determine PM_{10} emissions is not necessary. All construction activities that would result in the disturbance of soil occurring within El Dorado County are subject to EDCAQMD Rule 223 related to fugitive dust. Rule 223 includes requirements related to visible emissions, vehicle speed limits on unpaved roads, and cessation of certain construction activities during times of sustained, wind caused dust emissions. Compliance with the requirements of Rule 223 would ensure that measures sufficient to prevent visible emissions beyond the boundaries of the project site would be implemented. Accordingly, fugitive dust emissions are not anticipated to result in visible emissions beyond the boundaries of the project site and further calculation to determine PM_{10} emissions is not necessary.

Because the proposed project's estimated unmitigated construction emissions would be below the applicable EDCAQMD thresholds of significance, construction activities associated with development of the proposed project would not substantially contribute to the EDCAQMD's nonattainment status for ozone. Accordingly, construction of the proposed project would not violate any AAQS or contribute substantially to an existing or projected air quality violation, and a less-than-significant impact would occur associated with construction.

Operational Emissions

Operational emissions of ROG and NO_X would be generated by the proposed project from both mobile and area sources. Day-to-day activities, such as resident vehicle trips, would make up the majority of the mobile emissions. Emissions would also occur from area sources such as natural gas combustion from heating mechanisms, landscape maintenance equipment exhaust, and consumer products (e.g., deodorants, cleaning products, spray paint, etc.). As stated above, the project would be required to comply with all applicable EDCAQMD rules and regulations, including the following rules that specifically pertain to project operations:

- Rule 205 related to nuisance;
- Rule 207 related to particulate matter;
- Rule 215 related to architectural coatings;
- Rule 239 related to natural gas-fired residential water heaters; and
- Rule 502 related to general conformity.

Implementation of the above rules would likely reduce the operational emissions below the amount presented in Table 3. Nonetheless, the maximum unmitigated operational emissions for the proposed project are presented in Table 3 below.

Table 3
Maximum Unmitigated Operational Emissions (lbs/day)

	ROG	NO_X
Project Emissions	100	51.2
EDCAQMD Significance Threshold	**82.0**	**82.0**
Exceeds Threshold?	**YES**	**NO**

Source: CalEEMod, April 2024 (see Appendix A).

As shown in the table, unmitigated operational emissions would fall below the EDCAQMD's thresholds of significance for NO_X, and would exceed the threshold of significance for ROG. Considering the modeled operational emissions of ROG would exceed the adopted EDCAQMD thresholds of significance operations of the proposed project could violate an AAQS or contribute substantially to an existing or projected air quality violation, and a potentially significant impact could occur.

Cumulative Emissions

A cumulative impact analysis considers a project over time in conjunction with other past, present, and reasonably foreseeable future projects whose impacts might compound those of the project being assessed. Due to the dispersive nature and regional sourcing of air pollutants, air pollution is already largely a cumulative impact. The nonattainment status of regional pollutants, including ozone, is a result of past and present development, and, thus, cumulative impacts related to these pollutants could be considered cumulatively significant.

Adopted EDCAQMD rules and regulations, as well as the thresholds of significance, have been developed consistent with the applicable air quality plan with the intent to ensure continued attainment of AAQS, or to work towards attainment of AAQS for which the MCAB is currently designated nonattainment for ozone. If a project's operational emissions exceed the EDCAQMD's emission thresholds, a project would be considered to conflict with or obstruct implementation of the EDCAQMD's air quality planning efforts, including emission reduction measures contained in and/or derived from the applicable air quality plan. Similarly, if a project does not comply with the adopted EDCAQMD's rules and regulations, a project would be considered to conflict with or obstruct implementation of the EDCAQMD's air quality planning efforts. The proposed project would be required to comply with all applicable EDCAQMD rules and regulations. However, as discussed above, the proposed project would exceed the significance criteria set forth by the EDCAQMD for emissions of ROG and, therefore, project-level impacts would be potentially significant. As a result, the project could result in a cumulatively considerable net increase of any criteria pollutant for which the MCAB is designated as nonattainment.

Conclusion

The project's construction-related emissions would be below the applicable EDCAQMD thresholds of significance. However, because the proposed project would result in operational emissions of ROG that exceed the EDCAQMD's thresholds of significance, operations of the proposed project could be considered to conflict with or obstruct the implementation of any applicable air quality plans. Furthermore, the proposed project



could result in a cumulatively considerable net increase of a criteria air pollutant for which the project region is non-attainment under an applicable ambient air quality standard, and a ***potentially significant*** impact could result.

Mitigation Measure(s)

Implementation of Mitigation Measure AQ-1, which requires that only paints with no volatile organic compounds (VOCs) be used on-site, would reduce emissions of ROG. However, the majority of ROG emissions would be generated by mobile sources and consumer products (e.g., deodorants, cleaning products, spray paint, etc.). Feasible mitigation does not exist to reduce ROG emissions related to mobile sources and consumer products. Thus, as presented in Table 4, ROG emissions would still be above the applicable EDCAQMD threshold of significance. Mitigation Measure AQ-1 represents all feasible mitigation to reduce project-generated ROG emissions. Therefore, even with implementation of Mitigation Measure AQ-1, the impact would remain *significant and unavoidable.*

Table 4
Maximum Mitigated Operational Emissions (lbs/day)

	ROG	NO_X
Project Emissions	90.9	51.2
EDCAQMD Significance Threshold	**82.0**	**82.0**
Exceeds Threshold?	**YES**	**NO**

Source: CalEEMod, April 2024 (see Appendix A).

AQ-1 *Prior to the issuance of building permits, the project applicant shall ensure that all initial and ongoing interior and exterior architectural coatings associated with the proposed project have no volatile organic compounds (VOCs). Verification of the ongoing use of no VOC architectural coatings shall be ensured in perpetuity by the project's proposed homeowner's association (HOA).*

In addition, a green cleaning product education program shall be made available to all residents and commercial tenants of the proposed project. The program shall include free educational materials such as brochures, pamphlets, checklists, etc., that provide information regarding the proper use of green cleaning products.

The aforementioned requirements shall be noted on the project Improvement Plans, Conditions, Covenants and Restrictions (CC&Rs), and the Informational Sheet filed with the Final Subdivision Map(s), and submitted for review and approval by the El Dorado County Planning Department.

c. Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Sensitive receptors are typically defined as facilities where sensitive receptor population groups (i.e., children, the elderly, the acutely ill, and the chronically ill) are likely to be located. Accordingly, land uses that

are typically considered to be sensitive receptors include residences, schools, playgrounds, childcare centers, retirement homes, convalescent homes, hospitals, and medical clinics. The nearest sensitive receptors to the project site are the single-family residences across Latrobe Road, approximately 100 feet east of the project site, as well as the single-family residences exist along the east side of Latrobe Road, along Off-Site Improvement IV. It should be noted that an active adult (55 and older) residential development is under construction to the west of the project site and would be a continuation of the active adult Heritage community to the northwest of the project site.

The major pollutant concentrations of concern are localized carbon monoxide (CO) emissions and TAC emissions, which are addressed in further detail below.

Localized CO Emissions

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. Traffic congestion near a roadway's intersection with vehicles moving slowly or idling could result in localized CO emissions at that intersection due to a vehicle engine's inefficient combustion. High levels of localized CO concentrations are only expected where background levels are high, and traffic volumes and congestion levels are high. Accordingly, a land use project could result in impacts associated with localized CO concentrations at roadway intersections if the project generates substantial traffic.

The MCAB has been in attainment for CO for multiple years. Due to the continued attainment of CAAQS and NAAQS, and advances in vehicle emissions technologies, the likelihood that any single project would create a CO hotspot is minimal. In addition, as discussed above and depicted in Figure 5, the proposed project would include several off-site intersection improvements at Latrobe Road/Town Center Boulevard, Royal Oaks Drive/Latrobe Road, and Avanti Drive/Latrobe Road. As discussed in the Transportation Impact Study prepared for the proposed project, with implementation of the aforementioned intersection improvements, the proposed project is not anticipated to cause new, or worsen existing, traffic deficiencies on project area roadways. Therefore, given that high levels of localized CO concentrations are only expected where background levels are high, and traffic volumes and congestion levels are high, the proposed project would not be anticipated to generate localized CO emissions that would contribute to an exceedance of AAQS and/or expose sensitive receptors to substantial concentrations of localized CO.

TAC Emissions

Another category of environmental concern is TACs. The CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. DPM is the solid material in diesel exhaust, more than 90 percent of such material is less than one micrometer in diameter, and, thus, DPM is a subset of the $PM_{2.5}$ category of pollutants. Health risks associated with TACs are a function of both the concentration of emissions and the duration of exposure, where the higher the

concentration and/or the longer the period of time that a sensitive receptor is exposed to pollutant concentrations would correlate to a higher health risk.

The proposed project would not involve any land uses or operations that would be considered major sources of TACs, including DPM. As such, the proposed project would not generate any substantial pollutant concentrations during operations.

However, short-term, construction-related activities could result in the generation of TACs, primarily DPM, from on-road haul trucks and off-road equipment exhaust emissions. Although DPM emissions from on-road haul trucks would be widely dispersed throughout the project site and surrounding vicinity as haul trucks move goods and material to and from the site, exhaust from off-road equipment would primarily occur within the project site. As noted previously, the nearest sensitive receptors are located approximately 100 feet east of the project site, as well as along the east side of Latrobe Road, along Off-Site Improvement IV. In addition, an active adult (55 and older) residential development is under construction to the west of the project site and would be a continuation of the active adult Heritage community to the northwest of the project site. Consequently, the operation of off-road equipment within the project site during project construction could result in exposure of nearby residents to DPM.

EDCAQMD has established significance criteria for local community risk and hazard impacts as a result of new sources of TACs. The EDCAQMD's thresholds for analyzing health risks from new sources of emissions are presented below:

1. The lifetime probability of contracting cancer is greater than one in one million (ten in one million if best available control technology for toxics [T-BACT] is applied); or
2. The ground-level concentration of non-carcinogenic toxic air contaminants would result in a Hazard Index of greater than 1.

As stated above, the foregoing thresholds are generally intended for use when analyzing the operation of new proposed sources of TACs. Although the proposed project would not involve the siting or operation of any permanent sources of TACs, in the absence of specific thresholds for use when analyzing health risks from short-term projects, the foregoing EDCAQMD thresholds are applied to the project, for construction specifically.

To analyze potential health risks to nearby sensitive receptors that could result from DPM emissions from off-road equipment at the project site, total DPM emissions from project construction were estimated. DPM is considered a subset of $PM_{2.5}$, thus, the CalEEMod estimated $PM_{2.5}$ emissions from exhaust during construction was assumed to conservatively represent all DPM emitted on-site.

The CalEEMod estimated $PM_{2.5}$ exhaust emissions were used to calculate the concentration of DPM at the maximally exposed sensitive receptor near the project site and the off-site improvement areas. DPM concentrations resulting from project implementation were estimated using the American Meteorological Society/Environmental Protection Agency (AMS/EPA) Regulatory Model (AERMOD). In addition, the following information was input into the AMS/EPA AERMOD Model:

- Meteorology data was sourced from the Sacramento Executive Airport;

- Surrounding area receptors were placed in polygon grid pattern with the closest receptors (i.e., within 0.25-mile radius) placed five meters apart, and farther receptors placed 10 or 15 meters apart as distance increases;
- Volume sources were placed over the entire disturbance area, including the project site and the off-site improvement disturbance areas in a grid of approximately four sources per acre;
- Volume sources were assumed to have a release height of five meters, the initial lateral dimension was assumed to be 29.59 meters, and the initial vertical dimension was assumed to be one meter; and
- Construction was assumed to occur seven days per week for 12 hours per day, based on Section 130.37.020 of the County Code.

The associated cancer risk and non-cancer hazard index were calculated using the CARB's Hotspot Analysis Reporting Program Version 2 (HARP 2) Risk Assessment Standalone Tool (RAST), which calculates the cancer and non-cancer health impacts using the risk assessment guidelines of the 2015 Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual for Preparation of Health Risk Assessments.[3] The modeling was performed in accordance with the USEPA's User's Guide for the AERMOD[4] and the 2015 OEHHA Guidance Manual. The results of the dispersion modeling are included as Figure 6.

As shown in the figure, the maximally-exposed receptor, represented by a white X, is located just north of the project site.

Based on the foregoing methodology, and the methodology presented in response to questions 'a' and 'b' regarding the estimation of construction emissions, the cancer risk and non-cancer hazard indices were estimated for the maximally-exposed receptor, and are presented in Table 5. As shown in Table 5, construction of the proposed project would not result in any health impacts in excess of the EDCAQMD's standards.

Table 5
Maximum Unmitigated Cancer Risk and Hazard Index Associated with Project Construction DPM

	Cancer Risk (per million persons)	Acute Hazard Index	Chronic Hazard Index
Construction DPM Health Risks	2.06	0.00	0.001
Thresholds of Significance	10	1.0	1.0
Exceed Thresholds?	**NO**	**NO**	**NO**
Source: AERMOD and HARP 2 RAST, February 2024 (see Appendix B).			

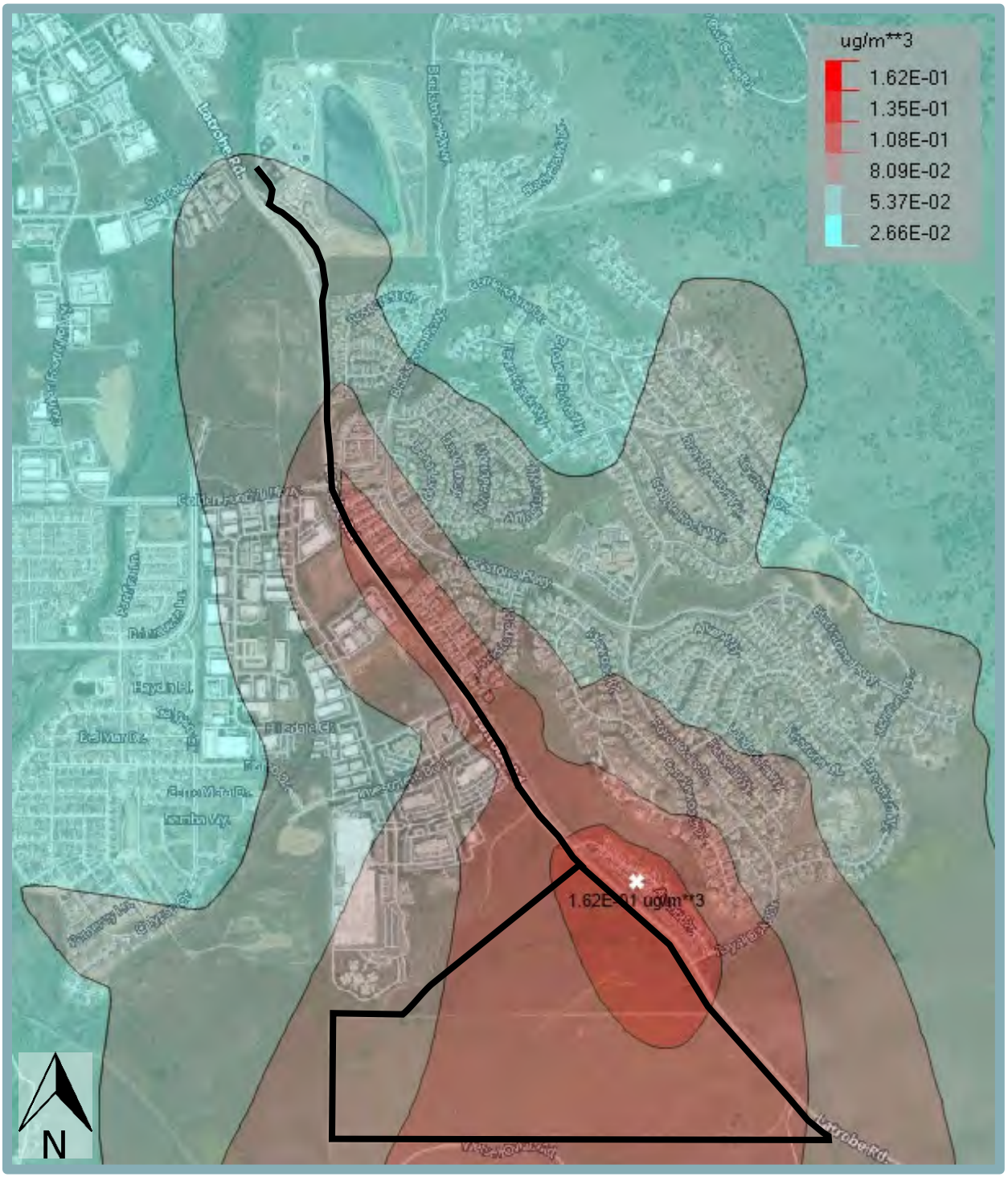
Naturally Occurring Asbestos

When rock containing naturally occurring asbestos (NOA) is broken or crushed, asbestos may become released and become airborne, causing a potential health hazard. Asbestos is a known carcinogen and, thus, NOA is considered a TAC.

[3] Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments* [pg. 8-18]. February 2015.

[4] U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.

Figure 6
AERMOD Results



According to the *El Dorado County Naturally Occurring Asbestos Review Map*, the project site is not within an Asbestos Review Area.[5] Thus, the site is not expected to contain NOA and impacts associated with potential exposure to NOA would not occur.

Criteria Pollutants

The EDCAQMD thresholds of significance were established with consideration given to the health-based air quality standards established by the NAAQS, and are designed to aid the district in achieving attainment of the NAAQS.[6] Although the EDCAQMD's thresholds of significance are intended to aid achievement of the NAAQS for which the MCAB is in nonattainment, the thresholds of significance do not represent a level above which individual project-level emissions would directly result in public health impacts.

Nevertheless, a project's compliance with EDCAQMD's thresholds of significance provides an indication that criteria pollutants released as a result of project implementation would not inhibit attainment of the health-based regional NAAQS. Because project-related ROG emissions would exceed the EDCAQMD's thresholds and, thus, could inhibit attainment of regional NAAQS, the criteria pollutants emitted during project implementation could be anticipated to result in measurable health impacts to sensitive receptors. Accordingly, the proposed project could expose sensitive receptors to excess concentrations of criteria pollutants.

Conclusion

Based on the above analysis, the proposed project would not be anticipated to result in the production of substantial concentrations of TACs, including DPM, or localized CO. In addition, the likelihood of NOA being present on the project site is low. However, because the proposed project would result in emissions of ROG above the applicable threshold of significance, the proposed project would be anticipated to result in the production of substantial concentrations of criteria pollutants. Therefore, a ***potentially significant*** impact would result.

Mitigation Measure(s)

As discussed above, implementation of Mitigation Measure AQ-1 would reduce emissions of ROG during project operations. However, as presented in Table 4, above, ROG emissions would still be above the applicable EDCAQMD threshold of significance. Mitigation Measure AQ-1 represents all feasible mitigation to reduce project-generated ROG emissions. Therefore, even with implementation of Mitigation Measure AQ-1, the impact would remain *significant and unavoidable.*

AQ-2 Implement Mitigation Measure AQ-1.

d. Emissions of pollutants have the potential to adversely affect sensitive receptors within the project area. Pollutants of principal concern include emissions leading to odors, emissions of dust, or emissions considered to constitute air pollutants. Air pollutants have been discussed in sections "a" through "c" above. Therefore, the following discussion focuses on emissions of odors and dust during construction and operation of the project.

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5 El Dorado County. *Asbestos Review Areas, Western Slope, County of El Dorado, State of California*. August 24, 2018. Available at: https://www.edcgov.us/Government/AirQualityManagement/Pages/asbestos_maps.aspx. Accessed February 2024.

6 El Dorado County Air Pollution Control District. *Guide to Air Quality Assessment: Determining Significance of Air Quality Impacts Under the California Environmental Quality Act*. February 2002.

Odors

Odors are generally regarded as an annoyance rather than a health hazard. Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, quantitative methodologies to determine the presence of a significant odor impact do not exist. Certain land uses such as wastewater treatment facilities, landfills, confined animal facilities, composting operations, food manufacturing plants, refineries, and chemical plants have the potential to generate considerable odors. The proposed project would not introduce any such land uses and is not located in the vicinity of any such existing or planned land uses.

Diesel fumes from construction equipment and heavy-duty trucks could be found to be objectionable; however, as addressed above, operation of construction equipment would be regulated by EDCAPCD rules and regulations, restricted to daylight hours per the El Dorado County Code, Section 130.37.020 (I), and would occur intermittently throughout the course of a day. All construction equipment and operation thereof would be regulated per the statewide In-Use Off-Road Diesel Vehicle Regulation. In addition, construction is temporary and construction equipment would operate intermittently throughout the course of a day and would likely only occur over portions of the improvement area at a time. As noted under discussion item 'c', the modeling performed for the health risk assessment indicated that nearby receptors would not be subjected to substantial pollutant concentration. It follows that nearby receptors would also not be subjected to substantial odor concentrations. For the aforementioned reasons and due to the distance between the project site and the nearest sensitive receptors, the project would not result in any noticeable objectionable odors associated with construction.

In addition, EDCAQMD Rule 205, Nuisance, addresses the exposure of "nuisance or annoyance" air contaminant discharges, including odors, and provides enforcement of odor control. Rule 205 is complaint-based, where if public complaints are sufficient to cause the odor source to be considered a public nuisance, then the EDCAQMD is required to investigate the identified source, as well as determine and ensure a solution for the source of the complaint, which could include operational modifications to correct the nuisance condition. Thus, although not anticipated, if odor or air quality complaints are made upon development of the proposed project, the EDCAQMD would be required (per EDCAQMD Rule 205) to ensure that such complaints are addressed and mitigated, as necessary.

Dust

As noted previously, construction of projects within El Dorado County are required to comply with all applicable EDCAPCD rules and regulations. The aforementioned rules would act to reduce construction-related dust by implementing dust control measures. EDCAPCD Rule 223 includes requirements to reduce fugitive dust emissions, such as limiting vehicle speed limits on construction sites and unpaved roads, reducing dust track-out, and use of water for soil stabilization when warranted. Compliance with Rule 223 would ensure that measures sufficient to prevent emissions of fugitive dust beyond the boundaries of the project site would be implemented. Following project construction, vehicles operating within the project site would be limited to paved areas of the site, which would not have the potential to create substantial dust emissions. Thus, project operations would not include sources of dust that could adversely affect a substantial number of people.

Conclusion

For the aforementioned reasons, construction and operation of the proposed project would not create objectionable odors affecting a substantial number of people, and impacts would be ***less than significant***.

VIII. GREENHOUSE GAS EMISSIONS. *Would the project:*	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	✖	☐	☐
b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gasses?	☐	✖	☐	☐

Discussion

a, b. Emissions of greenhouse gas (GHG) contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

Implementation of the proposed project would cumulatively contribute to increases of GHG emissions. Estimated GHG emissions attributable to future development would be primarily associated with increases of carbon dioxide (CO_2) and, to a lesser extent, other GHG pollutants, such as methane (CH_4) and nitrous oxide (N_2O) associated with area sources, mobile sources or vehicles, utilities (electricity and natural gas), water usage, wastewater generation, and the generation of solid waste. The primary source of GHG emissions for the project would be mobile source emissions. The common unit of measurement for GHG is expressed in terms of annual metric tons of CO_2 equivalents ($MTCO_2e$/yr).

In recognition of the global scale of climate change, California has enacted several pieces of legislations in an attempt to curb GHG emissions. Specifically, Assembly Bill (AB) 32 and, more recently, Senate Bill (SB) 32, have established statewide GHG emissions reduction targets. Accordingly, the CARB has prepared the Climate Change Scoping Plan for California (Scoping Plan), approved in 2008 and updated in 2014, 2017, and 2022,[7] which provides the outline for actions to reduce California's GHG emissions and achieve the emissions reduction targets required by AB 32 and SB 32. In concert with statewide efforts to reduce GHG emissions, air districts, counties, and local jurisdictions throughout the State have implemented their own policies and plans to achieve emissions reductions in line with the Scoping Plan and emissions reduction targets, including AB 32 and SB 32.

The EDCAQMD has not formally adopted thresholds for evaluating GHG emissions, but has recommended the use of thresholds adopted by the SMAQMD.[8] As such, this GHG analysis has been prepared to show compliance with SMAQMD's GHG thresholds of

[7] California Air Resources Board. *2022 Scoping Plan for Achieving Carbon Neutrality*. November 16, 2022.

[8] Rania Serieh, Air Quality Engineer at El Dorado County Air Pollution Control District. Personal Communication [phone] with Briette Shea, Associate/Air Quality Technician at Raney Planning & Management, Inc. October 22, 2020; Personal Communication [email] with Karen Huss, Air Quality Specialist at Raney Planning & Management, Inc. August 31, 2023.

significance.[9] For construction related GHG emissions, SMAQMD has adopted a threshold of significance of 1,100 $MTCO_2e$/yr. For evaluating operational GHG emissions, SMAQMD has prepared a two-tiered framework of analysis for new projects. All development projects are required to implement Tier 1 measures (BMP 1 and 2). In addition, if operations of the proposed project would exceed 1,100 $MTCO_2e$/yr after implementation of the Tier 1 measures, then the project is required to implement Tier 2 measures (BMP 3). The Tier 1 and Tier 2 measures are presented below.

The 1,100 $MTCO_2e$/yr numerical thresholds used by SMAQMD is a screening level threshold that has been established as a universally accepted threshold throughout the State, with several other air districts, including the Placer County Air Pollution Control District (PCAPCD), which also has jurisdiction of a portion of the MCAB, having adopted the same 1,100 $MTCO_2e$/yr numerical threshold. In any case, SMAQMD has further included requirements to implement BMPs, as presented below, to reduce operational GHG emissions associated with new development. The SMAQMD BMPs are consistent with the Statewide CARB GHG reduction targets, including the 2045 target of carbon neutrality established by Executive Order (EO) B-55-18 (Assembly Bill [AB] 1279), by focusing on reducing GHG emissions related to natural gas and vehicle trips, which are widespread sources of GHG emissions. Therefore, while other approaches may be used in other areas of the State, and even by other development projects within the County, to reduce GHG emissions, for the reasons stated above, use of the SMAQMD GHG thresholds for the proposed project is appropriate. The SMAQMD BMPs are also consistent with guidance from other agencies, including the Governor's Office of Planning and Research (OPR).

Tier 1

All projects within SMAQMD's jurisdiction would be required to comply with the BMPs included in Tier 1. The proposed Tier 1 BMPs are as follows:

- ***BMP 1:*** No natural gas: Projects shall be designed and constructed without natural gas infrastructure.
- ***BMP 2:*** Electric vehicle (EV) ready: Projects shall meet the current California Green Building Code (CalGreen) Tier 2 standards, except all EV Capable spaces shall instead be EV Ready.

If a project would not comply with both of the foregoing BMPs, the project would be required to include features that would achieve an equivalent level of GHG emissions reductions. For instance, a project that includes natural gas infrastructure may include pre-wiring to allow for the future retrofit of all natural gas appliances with all-electric appliances. Furthermore, projects that are below OPR's *de minimis* vehicle miles travelled (VMT) criteria, and/or projects that emit less than 1,100 $MTCO_2e$/yr prior to implementation of BMP 1 and BMP 2 would be considered sufficiently small to screen out of further requirements, and would be assumed to result in a less-than-significant impact related to GHG emissions and climate change. Projects that are not small enough to screen out of further review are subject to review under Tier 2 of SMAQMD's updated Thresholds.

The following types of projects would be considered to be below the OPR's *de minimis* VMT criteria:

[9] Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment, Chapter 6: Greenhouse Gas Emissions.* February 2021.

- Projects (including office, residential, retail, and mixed-use developments) proposed within half a mile of an existing major transit stop or within a quarter of an existing stop along a high-quality transit corridor may be presumed to have a less-than-significant impact;
- 100 percent affordable residential development in infill locations be presumed to have a less-than-significant impact on VMT;
- Projects that generate or attract fewer than 110 trips per day generally may be assumed to cause a less-than-significant impact; and
- Local-serving retail developments (considered to be less than 50,000 square feet in size).

Tier 2

The second tier of SMAQMD's updated thresholds includes the following BMP:

- ***BMP 3***: Residential projects shall achieve a 15 percent reduction in VMT per resident, and office projects should achieve a 15 percent reduction in VMT per worker compared to existing average VMT per capita for the county, or for the city if a more local Senate Bill (SB) 743 target has been established. Retail projects should achieve no net increase in total VMT, as required to show consistency with SB 743. These reductions can be achieved by many strategies, such as:
    - Locate in an area that already has low VMT due to location, transit service, etc.;
    - Adopt CAPCOA measures;
    - Adopt measures noted in Sacramento's CAP checklist;
    - Join a Transportation Management Association;
    - Incorporate traffic calming measures;
    - Incorporate pedestrian facilities and connections to public transportation; and/or
    - Promote electric bicycle or other micro-mobility options.

As noted in SMAQMD's Guidance, for jurisdictions with SB 743 targets already established, projects that show consistency with those established targets would show consistency with the SMAQMD GHG targets. For El Dorado County, the 15 percent reduction goal for residential projects would remain applicable for the proposed project.

If a project cannot incorporate the foregoing BMPs, other reductions or purchasing and retiring of GHG/carbon offsets can be used as an alternative method of compliance. Additionally, while the all electric requirement in SMAQMD's BMP 1 has not been challenged and is consistent with guidance from other agencies, the Ninth Circuit recently held that the Energy Policy and Conservation Act expressly preempted an ordinance banning natural gas piping within new buildings for appliances covered by the Act unless narrow exceptions applied.[10] While that Ninth Circuit decision does not address mitigation measures or GHG emissions thresholds, a similar challenge could be brought forth in the future and a future court decision could find that all-electric mitigation requirements or

[10] *California Restaurant Association v. City of Berkeley* (9th Cir. 2023) 65 F.4th 1045, opinion modified (9th Cir. 2024) 89 F.4th 1094, rehearing and request for En banc hearing denied on January 2, 2024.

GHG emissions thresholds are similarly preempted for covered appliances. The feasibility of BMP 1 also relies on the adequate availability of electricity at the time of development.

Based on the project construction timeline, operational GHG emissions were estimated for the proposed project in the first full year of operations, 2028. Construction and operational GHG emissions were modeled using the same modeling assumptions as discussed in the Air Quality Section above. In addition, California has recently proposed amendments to the In-Use Off-Road Diesel-Fueled Fleets Regulation, which require the use of renewable diesel fuel in all off-road equipment greater than 25 horsepower. CalEEMod does not include renewable diesel as a fuel type for off-road equipment. As such, off-model calculations were conducted to determine the emissions reduction associated with renewable diesel-powered off-road equipment anticipated to be used during project construction. All modeling results and off-model calculations are included as Appendix A.

Construction Emissions

Construction-related GHG emissions are a one-time release and are, therefore, not typically expected to generate a significant contribution to global climate change, as global climate change is inherently a cumulative effect that occurs over a long period of time and is quantified on a yearly basis. However, the proposed project's construction GHG emissions have been estimated and compared to the threshold of significance. The estimated unmitigated maximum annual construction-related emissions from the proposed project are presented in Table 6.

Table 6
Maximum Unmitigated Construction GHG Emissions

	GHG Emissions ($MTCO_2e$/yr)
Project Emissions	997.33
SMAQMD Threshold	**1,100.00**
Exceeds Threshold?	**NO**

Source: CalEEMod, February 2024/April 2024 (see Appendix A).

As shown in the table, maximum emissions related to construction of the proposed project would exceed the applicable threshold of significance. Therefore, project construction would be considered to result in a cumulatively considerable contribution to global climate change.

Operational GHG Emissions

The estimated unmitigated maximum annual operational emissions from the proposed project are presented in Table 7. The proposed project's compliance with the SMAQMD's BMPs is discussed in further detail below.

BMP-1: No Natural Gas

In order to be consistent with BMP 1, the proposed project is required to include all electric appliances and plumbing. However, project specific information is not available to ensure that the proposed project would be designed and constructed without natural gas infrastructure. Compliance with such requirements would be ensured by Mitigation Measure GHG-1. Therefore, with implementation of Mitigation Measure GHG-1 the proposed project would comply with BMP-1.

Table 7 **Unmitigated Operational GHG Emissions ($MTCO_2e$/yr)**	
Emission Source	**Project Emissions**
Mobile	6,582
Area	731
Energy	2,210
Water	55
Waste	180
Refrigerants	3.52
Total Annual GHG Emissions	*9,761*
SMAQMD Threshold	**1,100.00**
Exceeds Threshold?	**YES**
Note: Rounding may result in small differences in summation. ***Source: CalEEMod, April 2024 (see Appendix A).***	

It should be noted, however, that as discussed above, the potential exists that a challenge could be brought forth in the future and a future court decision could find that all-electric mitigation requirements or GHG emissions thresholds are preempted for covered appliances. The feasibility of BMP 1 also relies on the adequate availability of electricity at the time of development. Therefore, to conservatively address the possibility that implementation of BMP 1 may not be enforceable or commercially feasible at the time of development for certain project components, the use of GHG/carbon offsets is included in Mitigation Measure GHG-1 to ensure that any natural gas usage associated with the proposed project due the unenforceability of the prohibition of natural gas or commercial infeasibility of all electric is adequately offset at the time of project development.

BMP-2: EV-Ready

Consistent with BMP-2, the proposed project would be required to provide EV Ready parking spaces at the ratio with which the current CalGreen Tier 2 standards require EV Capable spaces (see Table 8). Compliance with BMP-2 would be ensured by Mitigation Measure GHG-1.

BMP-3: VMT Reduction

As noted above, the project would be required to implement BMPs 1 and 2. However, even with implementation of BMPs 1 and 2, the project would still result in annual emissions over the SMAQMD's threshold of significance and, therefore, would be subject to BMP 3. The proposed project would not qualify for exemption from BMP 3 under the OPR's *de minimis* VMT criteria. Therefore, in order to address the VMT reduction required by BMP-3, T. Kear Transportation Planning and Management conducted a VMT Analysis for the proposed project.[11]

Consistent with El Dorado County VMT Guidance (Resolution 141-2020), for the residential component of the project, a VMT model run was conducted for the Baseline Condition and Baseline Plus Project Condition (2018), as well as the Cumulative and Cumulative Plus Project Condition (2040) using the El Dorado County Travel Demand Model. Based on County guidance, project VMT was compared to the 15 percent reduction threshold of 17.3 VMT per capita. Based on the results of the VMT Analysis, the

[11] T. Kear Transportation Planning and Management. *Creekside Village CEQA VMT Analysis.* January 30, 2024.

residential component of the project is anticipated to generate 13.6 VMT per capita for the Baseline (2018) Condition, and 13.1 VMT per capita for the Cumulative (2040) Condition, which is below the 17.3 VMT per capita threshold.

Table 8
EV Ready Parking Space Requirements

Land Use Type	Requirements for New Construction		
1-2 family dwelling units/townhouses[1]	Each dwelling unit shall have a listed raceway to accommodate a dedicated 208/40-volt branch circuit		
Nonresidential[2]	**Total Number of Parking Spaces**	**EV Capable Spaces**	**EVSE Spaces**
	0-9	3	0
	10.25	8	3
	26-50	17	6
	51-75	28	9
	76-100	40	13
	101-150	57	19
	151-200	79	26
	201 and over	45 percent of actual parking spaces	33 percent of EV Ready Spaces

Sources:
1. 2022 CalGreen Code Section A4.106.8.1.
2. 2022 CalGreen Code Table A5.106.5.3.3.

In addition, with regard to the commercial component of the proposed project, the OPR Technical Advisory notes that projects less than 50,000 sf can generally be considered local serving. The proposed project would include a maximum of 5,400 sf of commercial uses on-site. Thus, the commercial component of the proposed project would be well below 50,000 sf, and, as a result, would be considered local serving. In addition, given the nature of the proposed project and the existing residential uses located in the direct vicinity of the project site, a reasonable assumption can be made that the majority of patrons visiting the proposed project would be travelling from the immediately surrounding area. As such, the proposed project would be classified as local-serving, and, based on guidance provided by OPR, may be presumed to result in a less-than-significant VMT impact. It should also be noted that according to the VMT Analysis, if built entirely as professional office rather than retail, the commercial component's anticipated trip generation would be under the County's 100 trip per day de minimis threshold for small projects, and the VMT impact would remain less-than-significant.

Based on the above, implementation of the proposed project would result in a reduction in local VMT in compliance with the relevant thresholds of significance and, consequently, the project would be considered to comply with BMP-3.

Conclusion

Based on the information presented above, the proposed project could be considered to generate GHG emissions during construction that would have a significant impact on the environment. In addition, project consistency with SMAQMD BMP-1 and BMP-2 cannot be ensured at this time. Therefore, the proposed project could conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Consequently, the project could result in a cumulatively considerable incremental

contribution to impacts related to GHG emissions or climate change and the project's impact would be ***potentially significant***.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

GHG-1 *The following requirements shall be noted on project improvement plans, subject to review and approval by the El Dorado County Planning Services Department:*

- *The proposed project shall be designed such that the project is built all-electric, and natural gas infrastructure shall be prohibited on-site; and*
- *The project shall be constructed to include electric vehicle (EV) ready parking spaces at the ratio with which the current CalGreen Tier 2 standards require EV Capable spaces.*

If the use of all-electric for any project component(s) (e.g., an appliance) is not enforceable or commercially feasible at the time of issuance of building permit, the applicant shall be required to include pre-wiring to allow for the future retrofit of all natural gas appliances with all-electric appliances and purchase off-site mitigation credits or forecasted mitigation units ("FMUs") (collectively, "GHG credits") for project-related GHG emissions from the component(s) using natural gas instead of electric. The emissions from the use of natural gas shall be calculated by a qualified professional utilizing EDCAQMD-, CARB-, or the USEPA-approved emissions models and quantification methods available and submitted to the County for review and approval, which shall include third-party review by a qualified consultant of the County's selection and be subject to applicant reimbursement of consultant costs.

Any and all GHG credits to off-set for the use of natural gas must be created through a CARB-approved registry. These registries are currently the ACR, CAR, and Verra, although CARB may accredit additional registries in the future. These registries use robust accounting protocols for all GHG credits created for their exchange, including the six currently approved CARB protocols. This mitigation measure specifically requires GHG credits created for the project originate from a CARB-approved protocol or a protocol that is equal to or more rigorous than CARB requirements under 17 CCR 95972. The selected protocol must demonstrate that the GHG-emissions reductions are real, permanent, quantifiable, verifiable, enforceable, and additional. Definitions of these terms from 17 CCR 95802(a) are provided below.

(1) Real: GHG reductions or enhancements result from a demonstrable action or set of actions and are quantified using appropriate, accurate, and conservative methodologies that account for all GHG emissions sources, GHG sinks, and GHG reservoirs within the [GHG credit] project boundary and account for uncertainty and the potential for activity-shifting and market-shifting leakage.

(2) Additional: GHG reductions or removals that exceed any GHG reduction, or removals otherwise required by law, regulation, or legally binding mandate, and that exceed any GHG reductions or removals that would otherwise occur in a conservative BAU scenario.
(3) Permanent: GHG reductions and removal enhancements are not reversible or, when GHG reductions and GHG-removal enhancements may be reversible, mechanisms are in place to replace any reversed GHG-emission reductions and GHG-removal enhancements to ensure that all credited reductions endure for at least 100 years.
(4) Quantifiable: The ability to accurately measure and calculate GHG reductions or GHG-removal enhancements relative to a project baseline in a reliable and replicable manner for all GHG emission sources, GHG sinks, or GHG reservoirs included within the [GHG credit] project boundary, while accounting for uncertainty. activity-shifting, and market-shifting leakage.
(5) Verifiable: A [GHG credit] project report assertion is well-documented and transparent such that it lends itself to an objective review by an accredited verification body.
(6) Enforceable: The authority for CARB to hold a particular party liable and take appropriate action if any of the provisions of this article are violated. Note that this definition of enforceability is specific to the Cap-and-Trade regulation, where CARB holds enforcement authority, but this measure will employ GHG credits from the voluntary market, where CARB has no enforcement authority. Applying the definition to this mitigation measure means that GHG reductions must be owned by a single entity and backed by a legal instrument or contract that defines exclusive ownership.

Geographic Prioritization of GHG Credits
GHG credits from reduction projects in the County will be prioritized before projects in larger geographies (i.e., northern California, California, United States, and international). The applicant will inform brokers of the required geographic prioritization for the procurement of GHG credits. GHG credits from reduction projects identified in the County that are of equal or lesser cost compared to the settlement price of the latest Cap-and-Trade auction must be included in the transaction. GHG credits from reduction projects outside of the County may be purchased if adequate credits cannot be found in the County or if they exceed the maximum price identified above. The economic and geographic analysis undertaken to inform the selection of GHG credits must be provided by the applicant to the County as part of the required documentation discussed below under Plan Implementation and Reporting.

Types of GHG Credits.
GHG credits may be in the form of GHG offsets for prior reductions of GHG emissions verified through protocols or FMUs for future committed GHG emissions meeting protocols. Because emissions reductions from GHG offsets have already occurred, their benefits are immediate and can be used to compensate for an equivalent quantity of project-generated emissions at any time. GHG credits from FMUs must be funded and implemented within 5 years of project GHG emissions to qualify as a GHG credit under this measure (i.e., there can only be a maximum of 5 years lag between project emissions and their real-world reductions through funding

a FMU in advance and implementing the FMU on the ground). Any use of FMUs that result in a time lag between project emissions and their reduction by GHG credits from FMUs must be compensated through a prorated surcharge of additional FMUs proportional to the effect of the delay. Because emissions of CO2 in the atmosphere reach their peak radiative forcing within 10 years, a surcharge of 10 percent for every year of lag between project emissions and their reduction through a FMU will be added to the GHG credit requirement (i.e., 1.10 FMUs would be required to mitigate 1 metric ton of project GHG emissions generated in the year prior to funding and implementation of the FMU).

Verification and Independent Review of GHG Credits
All GHG credits will be verified by an independent verifier accredited by the ANSI National Accreditation Board (ANAB) or CARB, or an expert with equivalent qualifications to the extent necessary to assist with the verification. Following the standards and requirements established by the accreditation board (i.e., ANAB or CARB), the verifier will certify the following.

- *GHG credits conform to a CARB-approved protocol or a protocol that is equal to or more rigorous than CARB requirements under 17 CCR 95972. Verification of the latter requires certification that the credits meet or exceed the standards in 17 CCR 95972.*
- *GHG credits are real, permanent, quantifiable, verifiable, enforceable, and additional, as defined in this measure.*
- *GHG credits are purchased according to the geographic prioritization standard defined in this measure under Geographic Prioritization of GHG Credits.*

Verification of GHG offsets must occur as part of the certification process for compliance with the accounting protocol. Because FMUs are GHG credits that will result from future projects, additional verification must occur beyond initial certification is required. Verification for FMUs must include initial certification and independent verification every 5 years over the duration of the FMU generating the GHG credits. The verification will examine both the GHG credit realization on the ground and its progress toward delivering future GHG credits. The applicant will retain an independent verifier meeting the qualifications described above to certify reductions achieved by FMUs are achieved following completion of the future reduction project.

Appendix A

CalEEMod Air Quality and Greenhouse Gas Modeling Results

Creekside Village Specific Plan Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Creekside Village Specific Plan
Construction Start Date	6/3/2025
Operational Year	2028
Lead Agency	El Dorado County
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.61348203944053, -121.05086586387135
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	470
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.22

1.2. Land Use Types

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

Single Family Housing	918	Dwelling Unit	137	1,790,100	804,400	—	2,332	—
Fast Food Restaurant with Drive Thru	2.40	1000sqft	0.47	2,400	2,768	—	—	—
Fast Food Restaurant w/o Drive Thru	1.50	1000sqft	0.29	1,500	1,708	—	—	—
High Turnover (Sit Down Restaurant)	1.50	1000sqft	0.29	1,500	1,708	—	—	—
Parking Lot	70.0	Space	0.75	0.00	4,417	—	—	—
City Park	13.6	Acre	13.6	0.00	592,416	592,416	—	—
Other Asphalt Surfaces	11.1	Acre	11.1	0.00	0.00	—	—	—
Other Asphalt Surfaces	52.5	1000sqft	1.21	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.91	50.1	29.7	38.4	0.06	1.23	9.41	10.6	1.14	3.70	4.84	—	9,998	9,998	0.28	0.66	22.7	10,221
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3.51	50.1	18.1	34.8	0.04	0.50	4.78	5.28	0.46	1.15	1.61	—	9,681	9,681	0.21	0.66	0.64	9,882
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.39	35.7	12.0	24.0	0.03	0.30	3.40	3.70	0.28	0.81	1.09	—	6,889	6,889	0.14	0.47	7.01	7,039
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.44	6.51	2.19	4.38	0.01	0.05	0.62	0.67	0.05	0.15	0.20	—	1,140	1,140	0.02	0.08	1.16	1,165

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.91	3.29	29.7	29.6	0.06	1.23	9.41	10.6	1.14	3.70	4.84	—	6,823	6,823	0.28	0.06	0.87	6,849
2026	3.50	50.1	16.3	38.4	0.04	0.42	4.78	5.21	0.39	1.15	1.54	—	9,998	9,998	0.18	0.66	22.7	10,221
2027	3.36	50.0	15.6	36.9	0.04	0.37	4.78	5.16	0.35	1.15	1.49	—	9,867	9,867	0.18	0.63	20.7	10,079
2028	3.12	49.9	14.7	35.5	0.04	0.33	4.78	5.12	0.31	1.15	1.46	—	9,713	9,713	0.17	0.63	18.8	9,923
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.51	50.1	18.1	34.8	0.04	0.50	4.78	5.28	0.46	1.15	1.61	—	9,681	9,681	0.21	0.66	0.64	9,882
2026	3.34	49.9	17.0	33.4	0.04	0.42	4.78	5.21	0.39	1.15	1.54	—	9,558	9,558	0.20	0.66	0.59	9,760
2027	3.10	49.8	16.1	32.1	0.04	0.37	4.78	5.16	0.35	1.15	1.49	—	9,436	9,436	0.20	0.64	0.54	9,631
2028	2.98	49.6	15.2	31.0	0.04	0.33	4.78	5.12	0.31	1.15	1.46	—	9,290	9,290	0.20	0.64	0.49	9,485
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.10	6.65	7.09	10.0	0.02	0.26	1.74	2.00	0.24	0.57	0.82	—	2,431	2,431	0.07	0.11	1.62	2,466
2026	2.39	35.7	12.0	24.0	0.03	0.30	3.40	3.70	0.28	0.81	1.09	—	6,889	6,889	0.14	0.47	7.01	7,039

2027	2.21	35.6	11.4	23.2	0.03	0.27	3.40	3.67	0.25	0.81	1.06	—	6,800	6,800	0.14	0.45	6.39	6,945
2028	1.20	21.0	5.99	12.6	0.02	0.13	1.91	2.04	0.12	0.46	0.58	—	3,745	3,745	0.07	0.25	3.24	3,825
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.20	1.21	1.29	1.83	< 0.005	0.05	0.32	0.37	0.04	0.10	0.15	—	402	402	0.01	0.02	0.27	408
2026	0.44	6.51	2.19	4.38	0.01	0.05	0.62	0.67	0.05	0.15	0.20	—	1,140	1,140	0.02	0.08	1.16	1,165
2027	0.40	6.49	2.07	4.23	0.01	0.05	0.62	0.67	0.05	0.15	0.19	—	1,126	1,126	0.02	0.08	1.06	1,150
2028	0.22	3.84	1.09	2.29	< 0.005	0.02	0.35	0.37	0.02	0.08	0.11	—	620	620	0.01	0.04	0.54	633

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	55.8	100	47.8	275	0.55	2.23	33.7	35.9	2.20	8.57	10.8	370	74,081	74,451	41.3	2.39	142	76,336
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	46.0	90.4	51.2	221	0.52	2.21	33.7	35.9	2.18	8.57	10.8	370	71,122	71,492	41.8	2.59	24.4	73,333
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	47.3	92.3	38.3	233	0.45	1.27	33.5	34.7	1.24	8.52	9.76	370	56,744	57,113	41.3	2.48	73.5	58,959
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.63	16.9	7.00	42.5	0.08	0.23	6.11	6.34	0.23	1.55	1.78	61.2	9,395	9,456	6.83	0.41	12.2	9,761

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	48.4	46.2	25.1	213	0.41	0.42	33.7	34.1	0.39	8.57	8.96	—	41,254	41,254	2.29	2.10	121	42,057
Area	6.62	53.5	15.7	58.9	0.10	1.26	—	1.26	1.25	—	1.25	0.00	19,470	19,470	0.37	0.04	—	19,490
Energy	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	13,280	13,280	1.51	0.10	—	13,349
Water	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Waste	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Total	55.8	100	47.8	275	0.55	2.23	33.7	35.9	2.20	8.57	10.8	370	74,081	74,451	41.3	2.39	142	76,336
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	43.4	41.1	29.0	212	0.38	0.42	33.7	34.1	0.39	8.57	8.96	—	38,436	38,436	2.78	2.30	3.14	39,195
Area	1.78	49.0	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Energy	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	13,280	13,280	1.51	0.10	—	13,349
Water	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Waste	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Total	46.0	90.4	51.2	221	0.52	2.21	33.7	35.9	2.18	8.57	10.8	370	71,122	71,492	41.8	2.59	24.4	73,333
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	43.7	41.4	27.7	203	0.38	0.42	33.5	33.9	0.39	8.52	8.91	—	38,975	38,975	2.58	2.22	52.3	39,754
Area	2.78	50.5	3.67	27.3	0.02	0.29	—	0.29	0.29	—	0.29	0.00	4,412	4,412	0.08	0.01	—	4,416
Energy	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	13,280	13,280	1.51	0.10	—	13,349
Water	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Waste	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3

Total	47.3	92.3	38.3	233	0.45	1.27	33.5	34.7	1.24	8.52	9.76	370	56,744	57,113	41.3	2.48	73.5	58,959
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.97	7.56	5.06	37.0	0.07	0.08	6.11	6.18	0.07	1.55	1.63	—	6,453	6,453	0.43	0.37	8.65	6,582
Area	0.51	9.22	0.67	4.98	< 0.005	0.05	—	0.05	0.05	—	0.05	0.00	730	730	0.01	< 0.005	—	731
Energy	0.15	0.07	1.26	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	2,199	2,199	0.25	0.02	—	2,210
Water	—	—	—	—	—	—	—	—	—	—	—	9.84	12.7	22.5	1.01	0.02	—	55.0
Waste	—	—	—	—	—	—	—	—	—	—	—	51.4	0.00	51.4	5.13	0.00	—	180
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52
Total	8.63	16.9	7.00	42.5	0.08	0.23	6.11	6.34	0.23	1.55	1.78	61.2	9,395	9,456	6.83	0.41	12.2	9,761

3. Construction Emissions Details

3.1. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	3.25	3.10	0.01	0.14	—	0.14	0.12	—	0.12	—	723	723	0.03	0.01	—	726
Dust From Material Movement	—	—	—	—	—	—	1.01	1.01	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.59	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	120	120	< 0.005	< 0.005	—	120
Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.07	1.26	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	224	224	0.01	0.01	0.87	228
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	0.01	3.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.53	1.91	< 0.005	0.06	—	0.06	0.06	—	0.06	—	352	352	0.01	< 0.005	—	353
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.3	58.3	< 0.005	< 0.005	—	58.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.58	1.43	1.48	16.5	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,359	3,359	0.09	0.13	0.37	3,401
Vendor	0.11	0.09	5.01	0.86	0.02	0.04	0.75	0.79	0.04	0.20	0.24	—	3,120	3,120	< 0.005	0.47	0.19	3,261
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.20	2.46	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	504	504	0.01	0.02	0.91	511
Vendor	0.02	0.01	0.73	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	458	458	< 0.005	0.07	0.47	479
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.45	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	83.4	83.4	< 0.005	< 0.005	0.15	84.6
Vendor	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	75.8	75.8	< 0.005	0.01	0.08	79.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.65	1.52	0.98	19.6	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,664	3,664	0.06	0.13	13.2	3,719
Vendor	0.10	0.09	4.43	0.78	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,071	3,071	< 0.005	0.47	6.87	3,219
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.52	1.37	1.36	15.4	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,298	3,298	0.08	0.13	0.34	3,340
Vendor	0.09	0.09	4.69	0.82	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,071	3,071	< 0.005	0.47	0.18	3,212
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	0.98	0.87	11.1	0.00	0.00	2.39	2.39	0.00	0.56	0.56	—	2,406	2,406	0.05	0.10	4.07	2,440
Vendor	0.07	0.06	3.31	0.57	0.01	0.01	0.53	0.55	0.01	0.14	0.16	—	2,193	2,193	< 0.005	0.34	2.12	2,296
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.16	2.03	0.00	0.00	0.44	0.44	0.00	0.10	0.10	—	398	398	0.01	0.02	0.67	404
Vendor	0.01	0.01	0.60	0.10	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	363	363	< 0.005	0.06	0.35	380
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.88	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.58	1.46	0.97	18.4	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,603	3,603	0.06	0.13	12.0	3,654
Vendor	0.09	0.07	4.18	0.76	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,014	3,014	< 0.005	0.45	6.24	3,155
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.36	1.32	1.24	14.4	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,243	3,243	0.08	0.13	0.31	3,285
Vendor	0.09	0.07	4.41	0.80	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,014	3,014	< 0.005	0.45	0.16	3,149
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97	0.95	0.79	10.5	0.00	0.00	2.39	2.39	0.00	0.56	0.56	—	2,366	2,366	0.05	0.10	3.72	2,400
Vendor	0.07	0.05	3.12	0.56	0.01	0.01	0.53	0.55	0.01	0.14	0.16	—	2,153	2,153	< 0.005	0.32	1.92	2,251
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.17	0.14	1.91	0.00	0.00	0.44	0.44	0.00	0.10	0.10	—	392	392	0.01	0.02	0.62	397
Vendor	0.01	0.01	0.57	0.10	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	356	356	< 0.005	0.05	0.32	373
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.55	5.14	0.01	0.12	—	0.12	0.11	—	0.11	—	952	952	0.04	0.01	—	956
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.65	0.94	< 0.005	0.02	—	0.02	0.02	—	0.02	—	158	158	0.01	< 0.005	—	158
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.43	1.40	0.86	17.3	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,532	3,532	0.05	0.13	10.9	3,582
Vendor	0.09	0.07	3.94	0.72	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	2,943	2,943	< 0.005	0.45	5.63	3,084
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.31	1.17	1.12	13.5	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,180	3,180	0.07	0.13	0.28	3,222
Vendor	0.09	0.07	4.16	0.76	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	2,943	2,943	< 0.005	0.45	0.15	3,079
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.51	0.39	5.48	0.00	0.00	1.33	1.33	0.00	0.31	0.31	—	1,291	1,291	0.03	0.05	1.88	1,309
Vendor	0.04	0.03	1.63	0.29	0.01	0.01	0.30	0.30	0.01	0.08	0.09	—	1,169	1,169	< 0.005	0.18	0.96	1,224
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	1.00	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	214	214	< 0.005	0.01	0.31	217
Vendor	0.01	0.01	0.30	0.05	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	194	194	< 0.005	0.03	0.16	203
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

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

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

Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	0.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	0.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.23	1.64	< 0.005	0.06	—	0.06	0.05	—	0.05	—	248	248	0.01	< 0.005	—	249
Paving	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.1	41.1	< 0.005	< 0.005	—	41.3
Paving	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.94	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	168	168	0.01	0.01	0.65	171
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.74	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	151	151	< 0.005	0.01	0.02	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.4	25.4	< 0.005	< 0.005	0.05	25.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.21	4.21	< 0.005	< 0.005	0.01	4.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134

Architectural	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.9	15.9	< 0.005	< 0.005	—	16.0
Architectural Coatings	—	5.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.64	2.64	< 0.005	< 0.005	—	2.65
Architectural Coatings	—	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.30	3.30	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	672	672	0.02	0.03	0.07	680
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.03	0.03	0.40	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	81.9	81.9	< 0.005	< 0.005	0.15	83.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.02	13.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.61	0.81	< 0.005	0.02	—	0.02	0.02	—	0.02	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	—	33.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	—	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.30	0.20	3.92	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	733	733	0.01	0.03	2.64	744
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.27	0.27	3.07	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	660	660	0.02	0.03	0.07	668
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.20	0.17	2.23	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	481	481	0.01	0.02	0.81	488

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.41	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	79.7	79.7	< 0.005	< 0.005	0.13	80.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.59	0.80	< 0.005	0.01	—	0.01	0.01	—	0.01	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	—	33.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	—	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.19	3.68	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	721	721	0.01	0.03	2.41	731
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.26	0.25	2.87	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	649	649	0.02	0.03	0.06	657
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.19	0.16	2.09	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	473	473	0.01	0.02	0.74	480

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.38	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	78.4	78.4	< 0.005	< 0.005	0.12	79.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.34	0.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	56.7	56.7	< 0.005	< 0.005	—	56.9
Architectural Coatings	—	20.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Architectural Coatings	—	3.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.28	0.17	3.46	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	706	706	0.01	0.03	2.19	716
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.23	0.22	2.70	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	636	636	0.01	0.03	0.06	644
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.17	0.00	0.00	0.28	0.28	0.00	0.07	0.07	—	276	276	0.01	0.01	0.40	280

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	45.7	45.7	< 0.005	< 0.005	0.07	46.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	41.4	39.5	22.4	190	0.37	0.38	30.6	31.0	0.36	7.80	8.16	—	37,443	37,443	2.00	1.87	110	38,159
Fast Food Restaurant with Drive Thru	5.61	5.43	2.20	18.4	0.03	0.03	2.44	2.47	0.03	0.62	0.65	—	3,075	3,075	0.23	0.19	8.77	3,145
Fast Food Restaurant w/o Drive Thru	0.64	0.62	0.25	2.10	< 0.005	< 0.005	0.28	0.28	< 0.005	0.07	0.07	—	350	350	0.03	0.02	1.00	358

High Turnover (Sit Down Restaurant)	0.71	0.68	0.28	2.31	< 0.005	< 0.005	0.31	0.31	< 0.005	0.08	0.08	—	387	387	0.03	0.02	1.10	396
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	48.4	46.2	25.1	213	0.41	0.42	33.7	34.1	0.39	8.57	8.96	—	41,254	41,254	2.29	2.10	121	42,057
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	37.2	35.1	25.9	187	0.34	0.38	30.6	31.0	0.36	7.80	8.16	—	34,873	34,873	2.42	2.05	2.86	35,547
Fast Food Restaurant with Drive Thru	4.98	4.77	2.55	19.8	0.03	0.03	2.44	2.47	0.03	0.62	0.65	—	2,873	2,873	0.30	0.21	0.23	2,942
Fast Food Restaurant w/o Drive Thru	0.57	0.54	0.29	2.26	< 0.005	< 0.005	0.28	0.28	< 0.005	0.07	0.07	—	327	327	0.03	0.02	0.03	335
High Turnover (Sit Down Restaurant)	0.63	0.60	0.32	2.50	< 0.005	< 0.005	0.31	0.31	< 0.005	0.08	0.08	—	362	362	0.04	0.03	0.03	370
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	43.4	41.1	29.0	212	0.38	0.42	33.7	34.1	0.39	8.57	8.96	—	38,436	38,436	2.78	2.30	3.14	39,195
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	6.83	6.47	4.52	32.8	0.06	0.07	5.56	5.63	0.07	1.41	1.48	—	5,855	5,855	0.37	0.33	7.88	5,970
Fast Food Restaurant with Drive Thru	0.92	0.88	0.44	3.38	0.01	0.01	0.44	0.45	0.01	0.11	0.12	—	482	482	0.04	0.03	0.63	493
Fast Food Restaurant w/o Drive Thru	0.10	0.10	0.05	0.39	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	54.9	54.9	0.01	< 0.005	0.07	56.2
High Turnover (Sit Down Restaurant)	0.12	0.11	0.06	0.43	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	60.7	60.7	0.01	< 0.005	0.08	62.1
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.97	7.56	5.06	37.0	0.07	0.08	6.11	6.18	0.07	1.55	1.63	—	6,453	6,453	0.43	0.37	8.65	6,582

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,374	4,374	0.71	0.09	—	4,417
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.9	53.9	0.01	< 0.005	—	54.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	16.0	16.0	< 0.005	< 0.005	—	16.2
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,511	4,511	0.73	0.09	—	4,556
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,374	4,374	0.71	0.09	—	4,417

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.9	53.9	0.01	< 0.005	—	54.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	16.0	16.0	< 0.005	< 0.005	—	16.2
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,511	4,511	0.73	0.09	—	4,556
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	724	724	0.12	0.01	—	731
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	8.92	8.92	< 0.005	< 0.005	—	9.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	5.57	5.57	< 0.005	< 0.005	—	5.63

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	5.57	5.57	< 0.005	< 0.005	—	5.63
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.65	2.65	< 0.005	< 0.005	—	2.67
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	747	747	0.12	0.01	—	754

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.79	0.39	6.74	2.87	0.04	0.55	—	0.55	0.55	—	0.55	—	8,558	8,558	0.76	0.02	—	8,582
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.7	93.7	0.01	< 0.005	—	94.0
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7

High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	8,769	8,769	0.78	0.02	—	8,794
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.79	0.39	6.74	2.87	0.04	0.55	—	0.55	0.55	—	0.55	—	8,558	8,558	0.76	0.02	—	8,582
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.7	93.7	0.01	< 0.005	—	94.0
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	8,769	8,769	0.78	0.02	—	8,794
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.14	0.07	1.23	0.52	0.01	0.10	—	0.10	0.10	—	0.10	—	1,417	1,417	0.13	< 0.005	—	1,421
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5	15.5	< 0.005	< 0.005	—	15.6
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.70	9.70	< 0.005	< 0.005	—	9.73
High Turnover (Sit Down Restaurant)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.70	9.70	< 0.005	< 0.005	—	9.73
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.15	0.07	1.26	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	1,452	1,452	0.13	< 0.005	—	1,456

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.78	0.89	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Consumer Products	—	38.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	9.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.84	4.58	0.50	52.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	140	140	0.01	< 0.005	—	141
Total	6.62	53.5	15.7	58.9	0.10	1.26	—	1.26	1.25	—	1.25	0.00	19,470	19,470	0.37	0.04	—	19,490
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.78	0.89	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Consumer Products	—	38.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	9.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.78	49.0	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.07	0.04	0.62	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	0.00	719	719	0.01	< 0.005	—	720
Consumer Products	—	7.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	1.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.41	0.04	4.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.4	11.4	< 0.005	< 0.005	—	11.5
Total	0.51	9.22	0.67	4.98	< 0.005	0.05	—	0.05	0.05	—	0.05	0.00	730	730	0.01	< 0.005	—	731

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	56.3	60.9	117	5.78	0.14	—	303
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.40	1.30	2.70	0.14	< 0.005	—	7.30
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	12.7	12.7	< 0.005	< 0.005	—	12.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	56.3	60.9	117	5.78	0.14	—	303
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.40	1.30	2.70	0.14	< 0.005	—	7.30
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	12.7	12.7	< 0.005	< 0.005	—	12.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.32	10.1	19.4	0.96	0.02	—	50.1
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.23	0.22	0.45	0.02	< 0.005	—	1.21
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.14	0.13	0.28	0.01	< 0.005	—	0.76
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.14	0.13	0.28	0.01	< 0.005	—	0.76
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	0.01	< 0.005	< 0.005	—	0.01
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	2.11	2.11	< 0.005	< 0.005	—	2.13
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.84	12.7	22.5	1.01	0.02	—	55.0

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	276	0.00	276	27.6	0.00	—	965
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	9.31	0.00	9.31	0.93	0.00	—	32.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.62	0.00	9.62	0.96	0.00	—	33.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.21
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	276	0.00	276	27.6	0.00	—	965
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.1

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	9.31	0.00	9.31	0.93	0.00	—	32.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.62	0.00	9.62	0.96	0.00	—	33.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.21
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	45.6	0.00	45.6	4.56	0.00	—	160
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.47	0.00	2.47	0.25	0.00	—	8.63
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.54	0.00	1.54	0.15	0.00	—	5.39
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.59	0.00	1.59	0.16	0.00	—	5.57
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	0.10	0.00	0.10	0.01	0.00	—	0.37
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	51.4	0.00	51.4	5.13	0.00	—	180

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.8	12.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.75	3.75
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.8	12.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.75	3.75
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.12	2.12
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62	0.62
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Grading	Grading	6/2/2025	7/25/2025	5.00	40.0	—
Building Construction	Building Construction	10/18/2025	7/21/2028	5.00	720	—
Paving	Paving	7/26/2025	10/17/2025	5.00	60.0	—
Architectural Coating	Architectural Coating	11/1/2025	8/4/2028	5.00	720	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20

Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	333	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	99.0	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	66.5	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	3,624,953	1,208,318	8,100	2,700	34,124

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Grading	—	—	120	0.00	—
Paving	0.00	0.00	0.00	0.00	23.2

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	10.1	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Fast Food Restaurant w/o Drive Thru	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Parking Lot	0.75	100%
City Park	0.00	0%
Other Asphalt Surfaces	11.1	100%
Other Asphalt Surfaces	1.21	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	8,482	8,482	8,482	3,096,047	42,968	42,968	42,968	15,683,177
Fast Food Restaurant with Drive Thru	1,255	1,255	1,255	458,078	3,419	3,419	3,419	1,247,954

Fast Food Restaurant w/o Drive Thru	143	143	143	52,193	390	390	390	142,191
High Turnover (Sit Down Restaurant)	158	158	158	57,668	430	430	430	157,107
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	918
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
3624952.5	1,208,318	8,100	2,700	34,124

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	7,826,601	204	0.0330	0.0040	26,704,643
Fast Food Restaurant with Drive Thru	96,369	204	0.0330	0.0040	292,442
Fast Food Restaurant w/o Drive Thru	60,230	204	0.0330	0.0040	182,776
High Turnover (Sit Down Restaurant)	60,230	204	0.0330	0.0040	182,776
Parking Lot	28,619	204	0.0330	0.0040	0.00
City Park	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	29,362,184	10,550,988
Fast Food Restaurant with Drive Thru	728,481	29,706

Fast Food Restaurant w/o Drive Thru	455,301	18,330
High Turnover (Sit Down Restaurant)	455,301	18,330
Parking Lot	0.00	47,402
City Park	0.00	14,128,146
Other Asphalt Surfaces	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	512	—
Fast Food Restaurant with Drive Thru	27.6	—
Fast Food Restaurant w/o Drive Thru	17.3	—
High Turnover (Sit Down Restaurant)	17.8	—
Parking Lot	0.00	—
City Park	1.17	—
Other Asphalt Surfaces	0.00	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Land Use	Lot acreage and square footage adjusted based on Creekside SP land use summary.
Construction: Construction Phases	Phase timing based on applicant provided information. Based on typical construction practices, architectural coating assumed to start two weeks after the start of building construction and last for the same number of days
Construction: Architectural Coatings	Based on EDCAQMD Rule 215.
Operations: Vehicle Data	Trip rates and VMT adjusted based on project-specific traffic report.
Operations: Hearths	All units would have natural gas fireplaces per applicant's AQ questionnaire.
Operations: Architectural Coatings	Based on EDCAQMD Rule 215.
Operations: Road Dust	All roads in project vicinity are paved
Construction: On-Road Fugitive Dust	All roads in project area are paved.

Creekside Village - Off-Site Pipeline Improvement Custom Report

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5.18.1.1. Unmitigated

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5.18.2.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Creekside Village - Off-Site Pipeline Improvement
Construction Start Date	6/2/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.61311297891615, -121.0506230315606
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	470
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
User Defined Linear	1.50	Mile	2.50	0.00	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.49	0.41	3.59	4.97	0.01	0.21	0.53	0.74	0.19	0.06	0.25	—	757	757	0.03	0.01	0.02	760
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.07	0.54	0.77	< 0.005	0.02	0.01	0.03	0.02	< 0.005	0.02	—	117	117	< 0.005	< 0.005	< 0.005	117
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.01	0.10	0.14	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	19.4	19.4	< 0.005	< 0.005	< 0.005	19.4

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.49	0.41	3.59	4.97	0.01	0.21	0.53	0.74	0.19	0.06	0.25	—	757	757	0.03	0.01	0.02	760
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.08	0.07	0.54	0.77	< 0.005	0.02	0.01	0.03	0.02	< 0.005	0.02	—	117	117	< 0.005	< 0.005	< 0.005	117
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.01	0.01	0.10	0.14	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	19.4	19.4	< 0.005	< 0.005	< 0.005	19.4

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.39	3.39	3.49	< 0.005	0.21	—	0.21	0.19	—	0.19	—	490	490	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.40	9.40	< 0.005	< 0.005	—	9.44

Dust From Material Movemen	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.56	1.56	< 0.005	< 0.005	—	1.56
Dust From Material Movemen	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Linear, Grading & Excavation (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.31	2.36	4.14	0.01	0.11	—	0.11	0.10	—	0.10	—	643	643	0.03	0.01	—	645
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.19	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.8	52.8	< 0.005	< 0.005	—	53.0
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.75	8.75	< 0.005	< 0.005	—	8.78

Dust From Material Movemen	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Linear, Drainage, Utilities, & Sub-Grade (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.41	3.32	4.16	0.01	0.12	—	0.12	0.11	—	0.11	—	607	607	0.02	< 0.005	—	609
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.18	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33.2	33.2	< 0.005	< 0.005	—	33.4
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.50	5.50	< 0.005	< 0.005	—	5.52
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.3	13.3	< 0.005	< 0.005	0.02	13.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.76
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13

3.7. Linear, Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.58	4.97	0.01	0.17	—	0.17	0.15	—	0.15	—	748	748	0.03	0.01	—	751

Dust From Material Movemen	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.5	20.5	< 0.005	< 0.005	—	20.6
Dust From Material Movemen	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.39	3.39	< 0.005	< 0.005	—	3.40
Dust From Material Movemen	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.85	8.85	< 0.005	< 0.005	0.01	9.28

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.25
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description

Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	6/2/2025	6/11/2025	5.00	7.00	—
Linear, Grading & Excavation	Linear, Grading & Excavation	6/12/2025	7/24/2025	5.00	30.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	7/25/2025	8/22/2025	5.00	20.0	—
Linear, Paving	Linear, Paving	8/23/2025	9/6/2025	5.00	10.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	0.00	14.3	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	8.80	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	0.00	14.3	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	0.00	8.80	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	0.00	14.3	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	8.80	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.15	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	0.00	14.3	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	8.80	HHDT,MHDT
Linear, Paving	Hauling	0.10	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grubbing & Land Clearing	—	—	2.50	0.00	—
Linear, Grading & Excavation	—	—	2.50	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	20.0	—	2.50	0.00	—
Linear, Paving	—	7.00	2.50	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Linear	2.50	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O

2025	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Off-Road Equipment	Equipment list provided by project applicant.
Construction: Dust From Material Movement	Material hauling information provided by project applicant.
Construction: On-Road Fugitive Dust	All roads in project vicinity are paved.

Creekside Village Specific Plan - Operational Mitigation Applied Custom Report

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5.18.2.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Creekside Village Specific Plan - Operational Mitigation Applied
Construction Start Date	6/3/2025
Operational Year	2028
Lead Agency	El Dorado County
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.61348203944053, -121.05086586387135
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	470
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.22

1.2. Land Use Types

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

Single Family Housing	918	Dwelling Unit	137	1,790,100	804,400	—	2,332	—
Fast Food Restaurant with Drive Thru	2.40	1000sqft	0.47	2,400	2,768	—	—	—
Fast Food Restaurant w/o Drive Thru	1.50	1000sqft	0.29	1,500	1,708	—	—	—
High Turnover (Sit Down Restaurant)	1.50	1000sqft	0.29	1,500	1,708	—	—	—
Parking Lot	70.0	Space	0.75	0.00	4,417	—	—	—
City Park	13.6	Acre	13.6	0.00	592,416	592,416	—	—
Other Asphalt Surfaces	11.1	Acre	11.1	0.00	0.00	—	—	—
Other Asphalt Surfaces	52.5	1000sqft	1.21	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.91	50.1	29.7	38.4	0.06	1.23	9.41	10.6	1.14	3.70	4.84	—	9,998	9,998	0.28	0.66	22.7	10,221
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3.51	50.1	18.1	34.8	0.04	0.50	4.78	5.28	0.46	1.15	1.61	—	9,681	9,681	0.21	0.66	0.64	9,882
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.39	35.7	12.0	24.0	0.03	0.30	3.40	3.70	0.28	0.81	1.09	—	6,889	6,889	0.14	0.47	7.01	7,039
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.44	6.51	2.19	4.38	0.01	0.05	0.62	0.67	0.05	0.15	0.20	—	1,140	1,140	0.02	0.08	1.16	1,165

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.91	3.29	29.7	29.6	0.06	1.23	9.41	10.6	1.14	3.70	4.84	—	6,823	6,823	0.28	0.06	0.87	6,849
2026	3.50	50.1	16.3	38.4	0.04	0.42	4.78	5.21	0.39	1.15	1.54	—	9,998	9,998	0.18	0.66	22.7	10,221
2027	3.36	50.0	15.6	36.9	0.04	0.37	4.78	5.16	0.35	1.15	1.49	—	9,867	9,867	0.18	0.63	20.7	10,079
2028	3.12	49.9	14.7	35.5	0.04	0.33	4.78	5.12	0.31	1.15	1.46	—	9,713	9,713	0.17	0.63	18.8	9,923
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.51	50.1	18.1	34.8	0.04	0.50	4.78	5.28	0.46	1.15	1.61	—	9,681	9,681	0.21	0.66	0.64	9,882
2026	3.34	49.9	17.0	33.4	0.04	0.42	4.78	5.21	0.39	1.15	1.54	—	9,558	9,558	0.20	0.66	0.59	9,760
2027	3.10	49.8	16.1	32.1	0.04	0.37	4.78	5.16	0.35	1.15	1.49	—	9,436	9,436	0.20	0.64	0.54	9,631
2028	2.98	49.6	15.2	31.0	0.04	0.33	4.78	5.12	0.31	1.15	1.46	—	9,290	9,290	0.20	0.64	0.49	9,485
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.10	6.65	7.09	10.0	0.02	0.26	1.74	2.00	0.24	0.57	0.82	—	2,431	2,431	0.07	0.11	1.62	2,466
2026	2.39	35.7	12.0	24.0	0.03	0.30	3.40	3.70	0.28	0.81	1.09	—	6,889	6,889	0.14	0.47	7.01	7,039

2027	2.21	35.6	11.4	23.2	0.03	0.27	3.40	3.67	0.25	0.81	1.06	—	6,800	6,800	0.14	0.45	6.39	6,945
2028	1.20	21.0	5.99	12.6	0.02	0.13	1.91	2.04	0.12	0.46	0.58	—	3,745	3,745	0.07	0.25	3.24	3,825
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.20	1.21	1.29	1.83	< 0.005	0.05	0.32	0.37	0.04	0.10	0.15	—	402	402	0.01	0.02	0.27	408
2026	0.44	6.51	2.19	4.38	0.01	0.05	0.62	0.67	0.05	0.15	0.20	—	1,140	1,140	0.02	0.08	1.16	1,165
2027	0.40	6.49	2.07	4.23	0.01	0.05	0.62	0.67	0.05	0.15	0.19	—	1,126	1,126	0.02	0.08	1.06	1,150
2028	0.22	3.84	1.09	2.29	< 0.005	0.02	0.35	0.37	0.02	0.08	0.11	—	620	620	0.01	0.04	0.54	633

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	55.8	90.9	47.8	275	0.55	2.23	33.7	35.9	2.20	8.57	10.8	370	74,081	74,451	41.3	2.39	142	76,336
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	46.0	81.2	51.2	221	0.52	2.21	33.7	35.9	2.18	8.57	10.8	370	71,122	71,492	41.8	2.59	24.4	73,333
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	47.3	83.1	38.3	233	0.45	1.27	33.5	34.7	1.24	8.52	9.76	370	56,744	57,113	41.3	2.48	73.5	58,959
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.63	15.2	7.00	42.5	0.08	0.23	6.11	6.34	0.23	1.55	1.78	61.2	9,395	9,456	6.83	0.41	12.2	9,761

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	48.4	46.2	25.1	213	0.41	0.42	33.7	34.1	0.39	8.57	8.96	—	41,254	41,254	2.29	2.10	121	42,057
Area	6.62	44.3	15.7	58.9	0.10	1.26	—	1.26	1.25	—	1.25	0.00	19,470	19,470	0.37	0.04	—	19,490
Energy	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	13,280	13,280	1.51	0.10	—	13,349
Water	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Waste	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Total	55.8	90.9	47.8	275	0.55	2.23	33.7	35.9	2.20	8.57	10.8	370	74,081	74,451	41.3	2.39	142	76,336
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	43.4	41.1	29.0	212	0.38	0.42	33.7	34.1	0.39	8.57	8.96	—	38,436	38,436	2.78	2.30	3.14	39,195
Area	1.78	39.7	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Energy	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	13,280	13,280	1.51	0.10	—	13,349
Water	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Waste	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Total	46.0	81.2	51.2	221	0.52	2.21	33.7	35.9	2.18	8.57	10.8	370	71,122	71,492	41.8	2.59	24.4	73,333
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	43.7	41.4	27.7	203	0.38	0.42	33.5	33.9	0.39	8.52	8.91	—	38,975	38,975	2.58	2.22	52.3	39,754
Area	2.78	41.3	3.67	27.3	0.02	0.29	—	0.29	0.29	—	0.29	0.00	4,412	4,412	0.08	0.01	—	4,416
Energy	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	13,280	13,280	1.51	0.10	—	13,349
Water	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Waste	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3

Total	47.3	83.1	38.3	233	0.45	1.27	33.5	34.7	1.24	8.52	9.76	370	56,744	57,113	41.3	2.48	73.5	58,959
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.97	7.56	5.06	37.0	0.07	0.08	6.11	6.18	0.07	1.55	1.63	—	6,453	6,453	0.43	0.37	8.65	6,582
Area	0.51	7.53	0.67	4.98	< 0.005	0.05	—	0.05	0.05	—	0.05	0.00	730	730	0.01	< 0.005	—	731
Energy	0.15	0.07	1.26	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	2,199	2,199	0.25	0.02	—	2,210
Water	—	—	—	—	—	—	—	—	—	—	—	9.84	12.7	22.5	1.01	0.02	—	55.0
Waste	—	—	—	—	—	—	—	—	—	—	—	51.4	0.00	51.4	5.13	0.00	—	180
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52
Total	8.63	15.2	7.00	42.5	0.08	0.23	6.11	6.34	0.23	1.55	1.78	61.2	9,395	9,456	6.83	0.41	12.2	9,761

3. Construction Emissions Details

3.1. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	3.25	3.10	0.01	0.14	—	0.14	0.12	—	0.12	—	723	723	0.03	0.01	—	726
Dust From Material Movemen	—	—	—	—	—	—	1.01	1.01	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.59	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	120	120	< 0.005	< 0.005	—	120
Dust From Material Movemen	—	—	—	—	—	—	0.18	0.18	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.07	1.26	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	224	224	0.01	0.01	0.87	228
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	0.01	3.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.53	1.91	< 0.005	0.06	—	0.06	0.06	—	0.06	—	352	352	0.01	< 0.005	—	353
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.3	58.3	< 0.005	< 0.005	—	58.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.58	1.43	1.48	16.5	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,359	3,359	0.09	0.13	0.37	3,401
Vendor	0.11	0.09	5.01	0.86	0.02	0.04	0.75	0.79	0.04	0.20	0.24	—	3,120	3,120	< 0.005	0.47	0.19	3,261
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.20	2.46	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	504	504	0.01	0.02	0.91	511
Vendor	0.02	0.01	0.73	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	458	458	< 0.005	0.07	0.47	479
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.45	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	83.4	83.4	< 0.005	< 0.005	0.15	84.6
Vendor	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	75.8	75.8	< 0.005	0.01	0.08	79.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.65	1.52	0.98	19.6	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,664	3,664	0.06	0.13	13.2	3,719
Vendor	0.10	0.09	4.43	0.78	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,071	3,071	< 0.005	0.47	6.87	3,219
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.52	1.37	1.36	15.4	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,298	3,298	0.08	0.13	0.34	3,340
Vendor	0.09	0.09	4.69	0.82	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,071	3,071	< 0.005	0.47	0.18	3,212
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	0.98	0.87	11.1	0.00	0.00	2.39	2.39	0.00	0.56	0.56	—	2,406	2,406	0.05	0.10	4.07	2,440
Vendor	0.07	0.06	3.31	0.57	0.01	0.01	0.53	0.55	0.01	0.14	0.16	—	2,193	2,193	< 0.005	0.34	2.12	2,296
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.16	2.03	0.00	0.00	0.44	0.44	0.00	0.10	0.10	—	398	398	0.01	0.02	0.67	404
Vendor	0.01	0.01	0.60	0.10	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	363	363	< 0.005	0.06	0.35	380
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.88	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.58	1.46	0.97	18.4	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,603	3,603	0.06	0.13	12.0	3,654
Vendor	0.09	0.07	4.18	0.76	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,014	3,014	< 0.005	0.45	6.24	3,155
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.36	1.32	1.24	14.4	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,243	3,243	0.08	0.13	0.31	3,285
Vendor	0.09	0.07	4.41	0.80	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,014	3,014	< 0.005	0.45	0.16	3,149
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97	0.95	0.79	10.5	0.00	0.00	2.39	2.39	0.00	0.56	0.56	—	2,366	2,366	0.05	0.10	3.72	2,400
Vendor	0.07	0.05	3.12	0.56	0.01	0.01	0.53	0.55	0.01	0.14	0.16	—	2,153	2,153	< 0.005	0.32	1.92	2,251
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.17	0.14	1.91	0.00	0.00	0.44	0.44	0.00	0.10	0.10	—	392	392	0.01	0.02	0.62	397
Vendor	0.01	0.01	0.57	0.10	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	356	356	< 0.005	0.05	0.32	373
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.55	5.14	0.01	0.12	—	0.12	0.11	—	0.11	—	952	952	0.04	0.01	—	956
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.65	0.94	< 0.005	0.02	—	0.02	0.02	—	0.02	—	158	158	0.01	< 0.005	—	158
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.43	1.40	0.86	17.3	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,532	3,532	0.05	0.13	10.9	3,582
Vendor	0.09	0.07	3.94	0.72	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	2,943	2,943	< 0.005	0.45	5.63	3,084
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.31	1.17	1.12	13.5	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,180	3,180	0.07	0.13	0.28	3,222
Vendor	0.09	0.07	4.16	0.76	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	2,943	2,943	< 0.005	0.45	0.15	3,079
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.51	0.39	5.48	0.00	0.00	1.33	1.33	0.00	0.31	0.31	—	1,291	1,291	0.03	0.05	1.88	1,309
Vendor	0.04	0.03	1.63	0.29	0.01	0.01	0.30	0.30	0.01	0.08	0.09	—	1,169	1,169	< 0.005	0.18	0.96	1,224
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	1.00	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	214	214	< 0.005	0.01	0.31	217
Vendor	0.01	0.01	0.30	0.05	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	194	194	< 0.005	0.03	0.16	203
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

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

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

Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	0.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	0.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.23	1.64	< 0.005	0.06	—	0.06	0.05	—	0.05	—	248	248	0.01	< 0.005	—	249
Paving	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.1	41.1	< 0.005	< 0.005	—	41.3
Paving	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.94	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	168	168	0.01	0.01	0.65	171
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.74	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	151	151	< 0.005	0.01	0.02	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.4	25.4	< 0.005	< 0.005	0.05	25.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.21	4.21	< 0.005	< 0.005	0.01	4.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134

Architectural	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.9	15.9	< 0.005	< 0.005	—	16.0
Architectural Coatings	—	5.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.64	2.64	< 0.005	< 0.005	—	2.65
Architectural Coatings	—	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.30	3.30	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	672	672	0.02	0.03	0.07	680
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.03	0.03	0.40	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	81.9	81.9	< 0.005	< 0.005	0.15	83.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.02	13.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.61	0.81	< 0.005	0.02	—	0.02	0.02	—	0.02	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	—	33.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	—	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.30	0.20	3.92	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	733	733	0.01	0.03	2.64	744
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.27	0.27	3.07	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	660	660	0.02	0.03	0.07	668
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.20	0.17	2.23	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	481	481	0.01	0.02	0.81	488

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.41	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	79.7	79.7	< 0.005	< 0.005	0.13	80.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.59	0.80	< 0.005	0.01	—	0.01	0.01	—	0.01	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	—	33.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	—	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.19	3.68	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	721	721	0.01	0.03	2.41	731
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.26	0.25	2.87	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	649	649	0.02	0.03	0.06	657
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.19	0.16	2.09	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	473	473	0.01	0.02	0.74	480

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.38	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	78.4	78.4	< 0.005	< 0.005	0.12	79.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.34	0.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	56.7	56.7	< 0.005	< 0.005	—	56.9
Architectural Coatings	—	20.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Architectural Coatings	—	3.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.28	0.17	3.46	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	706	706	0.01	0.03	2.19	716
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.23	0.22	2.70	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	636	636	0.01	0.03	0.06	644
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.17	0.00	0.00	0.28	0.28	0.00	0.07	0.07	—	276	276	0.01	0.01	0.40	280

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	45.7	45.7	< 0.005	< 0.005	0.07	46.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	41.4	39.5	22.4	190	0.37	0.38	30.6	31.0	0.36	7.80	8.16	—	37,443	37,443	2.00	1.87	110	38,159
Fast Food Restaurant with Drive Thru	5.61	5.43	2.20	18.4	0.03	0.03	2.44	2.47	0.03	0.62	0.65	—	3,075	3,075	0.23	0.19	8.77	3,145
Fast Food Restaurant w/o Drive Thru	0.64	0.62	0.25	2.10	< 0.005	< 0.005	0.28	0.28	< 0.005	0.07	0.07	—	350	350	0.03	0.02	1.00	358

High Turnover (Sit Down Restaurant)	0.71	0.68	0.28	2.31	< 0.005	< 0.005	0.31	0.31	< 0.005	0.08	0.08	—	387	387	0.03	0.02	1.10	396
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	48.4	46.2	25.1	213	0.41	0.42	33.7	34.1	0.39	8.57	8.96	—	41,254	41,254	2.29	2.10	121	42,057
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	37.2	35.1	25.9	187	0.34	0.38	30.6	31.0	0.36	7.80	8.16	—	34,873	34,873	2.42	2.05	2.86	35,547
Fast Food Restaurant with Drive Thru	4.98	4.77	2.55	19.8	0.03	0.03	2.44	2.47	0.03	0.62	0.65	—	2,873	2,873	0.30	0.21	0.23	2,942
Fast Food Restaurant w/o Drive Thru	0.57	0.54	0.29	2.26	< 0.005	< 0.005	0.28	0.28	< 0.005	0.07	0.07	—	327	327	0.03	0.02	0.03	335
High Turnover (Sit Down Restaurant)	0.63	0.60	0.32	2.50	< 0.005	< 0.005	0.31	0.31	< 0.005	0.08	0.08	—	362	362	0.04	0.03	0.03	370
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	43.4	41.1	29.0	212	0.38	0.42	33.7	34.1	0.39	8.57	8.96	—	38,436	38,436	2.78	2.30	3.14	39,195
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	6.83	6.47	4.52	32.8	0.06	0.07	5.56	5.63	0.07	1.41	1.48	—	5,855	5,855	0.37	0.33	7.88	5,970
Fast Food Restaurant with Drive Thru	0.92	0.88	0.44	3.38	0.01	0.01	0.44	0.45	0.01	0.11	0.12	—	482	482	0.04	0.03	0.63	493
Fast Food Restaurant w/o Drive Thru	0.10	0.10	0.05	0.39	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	54.9	54.9	0.01	< 0.005	0.07	56.2
High Turnover (Sit Down Restaurant)	0.12	0.11	0.06	0.43	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	60.7	60.7	0.01	< 0.005	0.08	62.1
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.97	7.56	5.06	37.0	0.07	0.08	6.11	6.18	0.07	1.55	1.63	—	6,453	6,453	0.43	0.37	8.65	6,582

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,374	4,374	0.71	0.09	—	4,417
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.9	53.9	0.01	< 0.005	—	54.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	16.0	16.0	< 0.005	< 0.005	—	16.2
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,511	4,511	0.73	0.09	—	4,556
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,374	4,374	0.71	0.09	—	4,417

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.9	53.9	0.01	< 0.005	—	54.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	16.0	16.0	< 0.005	< 0.005	—	16.2
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,511	4,511	0.73	0.09	—	4,556
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	724	724	0.12	0.01	—	731
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	8.92	8.92	< 0.005	< 0.005	—	9.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	5.57	5.57	< 0.005	< 0.005	—	5.63

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	5.57	5.57	< 0.005	< 0.005	—	5.63
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.65	2.65	< 0.005	< 0.005	—	2.67
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	747	747	0.12	0.01	—	754

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.79	0.39	6.74	2.87	0.04	0.55	—	0.55	0.55	—	0.55	—	8,558	8,558	0.76	0.02	—	8,582
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.7	93.7	0.01	< 0.005	—	94.0
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7

High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	8,769	8,769	0.78	0.02	—	8,794
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.79	0.39	6.74	2.87	0.04	0.55	—	0.55	0.55	—	0.55	—	8,558	8,558	0.76	0.02	—	8,582
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.7	93.7	0.01	< 0.005	—	94.0
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	8,769	8,769	0.78	0.02	—	8,794
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.14	0.07	1.23	0.52	0.01	0.10	—	0.10	0.10	—	0.10	—	1,417	1,417	0.13	< 0.005	—	1,421
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5	15.5	< 0.005	< 0.005	—	15.6
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.70	9.70	< 0.005	< 0.005	—	9.73
High Turnover (Sit Down Restaurant)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.70	9.70	< 0.005	< 0.005	—	9.73
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.15	0.07	1.26	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	1,452	1,452	0.13	< 0.005	—	1,456

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.78	0.89	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Consumer Products	—	38.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.84	4.58	0.50	52.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	140	140	0.01	< 0.005	—	141
Total	6.62	44.3	15.7	58.9	0.10	1.26	—	1.26	1.25	—	1.25	0.00	19,470	19,470	0.37	0.04	—	19,490
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.78	0.89	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Consumer Products	—	38.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.78	39.7	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.07	0.04	0.62	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	0.00	719	719	0.01	< 0.005	—	720
Consumer Products	—	7.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.41	0.04	4.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.4	11.4	< 0.005	< 0.005	—	11.5
Total	0.51	7.53	0.67	4.98	< 0.005	0.05	—	0.05	0.05	—	0.05	0.00	730	730	0.01	< 0.005	—	731

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	56.3	60.9	117	5.78	0.14	—	303
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.40	1.30	2.70	0.14	< 0.005	—	7.30
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	12.7	12.7	< 0.005	< 0.005	—	12.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	56.3	60.9	117	5.78	0.14	—	303
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.40	1.30	2.70	0.14	< 0.005	—	7.30
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	12.7	12.7	< 0.005	< 0.005	—	12.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.32	10.1	19.4	0.96	0.02	—	50.1
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.23	0.22	0.45	0.02	< 0.005	—	1.21
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.14	0.13	0.28	0.01	< 0.005	—	0.76
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.14	0.13	0.28	0.01	< 0.005	—	0.76
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	0.01	< 0.005	< 0.005	—	0.01
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	2.11	2.11	< 0.005	< 0.005	—	2.13
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.84	12.7	22.5	1.01	0.02	—	55.0

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	276	0.00	276	27.6	0.00	—	965
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	9.31	0.00	9.31	0.93	0.00	—	32.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.62	0.00	9.62	0.96	0.00	—	33.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.21
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	276	0.00	276	27.6	0.00	—	965
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.1

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	9.31	0.00	9.31	0.93	0.00	—	32.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.62	0.00	9.62	0.96	0.00	—	33.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.21
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	45.6	0.00	45.6	4.56	0.00	—	160
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.47	0.00	2.47	0.25	0.00	—	8.63
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.54	0.00	1.54	0.15	0.00	—	5.39
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.59	0.00	1.59	0.16	0.00	—	5.57
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	0.10	0.00	0.10	0.01	0.00	—	0.37
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	51.4	0.00	51.4	5.13	0.00	—	180

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.8	12.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.75	3.75
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.8	12.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.75	3.75
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.12	2.12
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62	0.62
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Grading	Grading	6/2/2025	7/25/2025	5.00	40.0	—
Building Construction	Building Construction	10/18/2025	7/21/2028	5.00	720	—
Paving	Paving	7/26/2025	10/17/2025	5.00	60.0	—
Architectural Coating	Architectural Coating	11/1/2025	8/4/2028	5.00	720	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20

Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	333	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	99.0	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	66.5	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	3,624,953	1,208,318	8,100	2,700	34,124

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Grading	—	—	120	0.00	—
Paving	0.00	0.00	0.00	0.00	23.2

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	10.1	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Fast Food Restaurant w/o Drive Thru	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Parking Lot	0.75	100%
City Park	0.00	0%
Other Asphalt Surfaces	11.1	100%
Other Asphalt Surfaces	1.21	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	8,482	8,482	8,482	3,096,047	42,968	42,968	42,968	15,683,177
Fast Food Restaurant with Drive Thru	1,255	1,255	1,255	458,078	3,419	3,419	3,419	1,247,954

Fast Food Restaurant w/o Drive Thru	143	143	143	52,193	390	390	390	142,191
High Turnover (Sit Down Restaurant)	158	158	158	57,668	430	430	430	157,107
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	918
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
3624952.5	1,208,318	8,100	2,700	34,124

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	7,826,601	204	0.0330	0.0040	26,704,643
Fast Food Restaurant with Drive Thru	96,369	204	0.0330	0.0040	292,442
Fast Food Restaurant w/o Drive Thru	60,230	204	0.0330	0.0040	182,776
High Turnover (Sit Down Restaurant)	60,230	204	0.0330	0.0040	182,776
Parking Lot	28,619	204	0.0330	0.0040	0.00
City Park	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	29,362,184	10,550,988
Fast Food Restaurant with Drive Thru	728,481	29,706

Fast Food Restaurant w/o Drive Thru	455,301	18,330
High Turnover (Sit Down Restaurant)	455,301	18,330
Parking Lot	0.00	47,402
City Park	0.00	14,128,146
Other Asphalt Surfaces	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	512	—
Fast Food Restaurant with Drive Thru	27.6	—
Fast Food Restaurant w/o Drive Thru	17.3	—
High Turnover (Sit Down Restaurant)	17.8	—
Parking Lot	0.00	—
City Park	1.17	—
Other Asphalt Surfaces	0.00	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Land Use	Lot acreage and square footage adjusted based on Creekside SP land use summary.
Construction: Construction Phases	Phase timing based on applicant provided information. Based on typical construction practices, architectural coating assumed to start two weeks after the start of building construction and last for the same number of days
Construction: Architectural Coatings	Based on EDCAQMD Rule 215.
Operations: Vehicle Data	Trip rates and VMT adjusted based on project-specific traffic report.
Operations: Hearths	Based on applicant provided information, all fireplaces would be natural gas.
Operations: Architectural Coatings	Required by AQ mitigation measure.
Operations: Road Dust	All roads in project vicinity are paved
Construction: On-Road Fugitive Dust	All roads in project area are paved.

CalEEMod Maxmimum Annual Off-Road Equipment GHG Emissions	
Phase	Emissions (MTCO2e/yr)
Building Construction (2026)	284.00
Architectural Coating (2026)	15.80
Total	*299.80*
See Table 3.5 of CalEEMod Report See Table 3.15 of CalEEMod Report	

Emissions from Off-Road Equipment <25 HP	
Equipment	Emissions (MTCO2e/yr)
Generator Sets	12.00
<25 HP equipment is not required to adhere to the CARB Renewable Diesel Fuel Requirements. Thus, MTCO2e emitted from <25 HP equipment is omitted from the reduction calculation below.	
Source: https://ww2.arb.ca.gov/resources/fact-sheets/fact-sheet-renewable-diesel-fuel-requirements	

Total Emissions from Off-Road Equipment >25 HP	*287.80*

Emissions Reduction due to use of Renewable Diesel	**187.07**
Source: https://afdc.energy.gov/fuels/renewable_diesel.html	

Appendix B

AERMOD and HARP Results

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: OTHER (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
			East (m)	North (m)	(m)	(m)	(m)		
ALL	1ST	0.00531	669850.10	4276109.50	0.00	0.00	1.80	DC	
	2ND	0.00527	669890.10	4276074.50	0.00	0.00	1.80	DC	
	3RD	0.00527	669895.10	4276069.50	0.00	0.00	1.80	DC	
	4TH	0.00527	669900.10	4276064.50	0.00	0.00	1.80	DC	
	5TH	0.00527	669885.10	4276079.50	0.00	0.00	1.80	DC	
	6TH	0.00527	669905.10	4276059.50	0.00	0.00	1.80	DC	
	7TH	0.00527	669910.10	4276054.50	0.00	0.00	1.80	DC	
	8TH	0.00526	669880.10	4276084.50	0.00	0.00	1.80	DC	
	9TH	0.00525	669875.10	4276089.50	0.00	0.00	1.80	DC	
	10TH	0.00524	669870.10	4276094.50	0.00	0.00	1.80	DC	

Highest Results of Pollutant: OTHER

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)	(m)	(m)	(m)		
1-HR	ALL	1ST	Avg. Conc.	0.16229	ug/m**3	15012109	669965.10	4276009.50	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
4	Warning Message(s)
1576	Informational Message(s)
43680	Hours Were Processed
643	Calm Hours Identified
933	Missing Hours Identified (2.14 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description

WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

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AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	Creekside Village SP - Option B
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	OTHER
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	T
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	I:\Projects\Active\El Dorado County\Creekside Village SP AQ-GHG\2023 project\HRA\AERMOD\SACEXE~1.SFC
ME	PROFFILE	Profile met file	I:\Projects\Active\El Dorado County\Creekside Village SP AQ-GHG\2023 project\HRA\AERMOD\SACEXE~1.PFL
ME	SURFDATA	Surf met data info.	23232 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	7.3
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

OU	DAYTABLE	Print summary opt.	

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
2RPS3001	VOLUME	on-site	669013.2	4275254.6	0	0.00000779	(g/s)	5
2RPS3002	VOLUME	on-site	669076.8	4275254.6	0	0.00000779	(g/s)	5
2RPS3003	VOLUME	on-site	669140.4	4275254.6	0	0.00000779	(g/s)	5
2RPS3004	VOLUME	on-site	669204.0	4275254.6	0	0.00000779	(g/s)	5
2RPS3005	VOLUME	on-site	669267.7	4275254.6	0	0.00000779	(g/s)	5
2RPS3006	VOLUME	on-site	669331.3	4275254.6	0	0.00000779	(g/s)	5
2RPS3007	VOLUME	on-site	669394.9	4275254.6	0	0.00000779	(g/s)	5
2RPS3008	VOLUME	on-site	669458.5	4275254.6	0	0.00000779	(g/s)	5
2RPS3009	VOLUME	on-site	669522.1	4275254.6	0	0.00000779	(g/s)	5
2RPS300A	VOLUME	on-site	669585.7	4275254.6	0	0.00000779	(g/s)	5
2RPS300B	VOLUME	on-site	669649.4	4275254.6	0	0.00000779	(g/s)	5
2RPS300C	VOLUME	on-site	669713.0	4275254.6	0	0.00000779	(g/s)	5
2RPS300D	VOLUME	on-site	669776.6	4275254.6	0	0.00000779	(g/s)	5
2RPS300E	VOLUME	on-site	669840.2	4275254.6	0	0.00000779	(g/s)	5
2RPS300F	VOLUME	on-site	669903.8	4275254.6	0	0.00000779	(g/s)	5
2RPS300G	VOLUME	on-site	669967.4	4275254.6	0	0.00000779	(g/s)	5
2RPS300H	VOLUME	on-site	670031.0	4275254.6	0	0.00000779	(g/s)	5
2RPS300I	VOLUME	on-site	670094.7	4275254.6	0	0.00000779	(g/s)	5
2RPS300J	VOLUME	on-site	670158.3	4275254.6	0	0.00000779	(g/s)	5
2RPS300K	VOLUME	on-site	670221.9	4275254.6	0	0.00000779	(g/s)	5
2RPS300L	VOLUME	on-site	670285.5	4275254.6	0	0.00000779	(g/s)	5
2RPS300M	VOLUME	on-site	670349.1	4275254.6	0	0.00000779	(g/s)	5
2RPS300N	VOLUME	on-site	670412.7	4275254.6	0	0.00000779	(g/s)	5
2RPS300O	VOLUME	on-site	670476.3	4275254.6	0	0.00000779	(g/s)	5
2RPS300P	VOLUME	on-site	670540.0	4275254.6	0	0.00000779	(g/s)	5
2RPS300Q	VOLUME	on-site	669013.2	4275318.2	0	0.00000779	(g/s)	5
2RPS300R	VOLUME	on-site	669076.8	4275318.2	0	0.00000779	(g/s)	5
2RPS300S	VOLUME	on-site	669140.4	4275318.2	0	0.00000779	(g/s)	5
2RPS300T	VOLUME	on-site	669204.0	4275318.2	0	0.00000779	(g/s)	5
2RPS300U	VOLUME	on-site	669267.7	4275318.2	0	0.00000779	(g/s)	5
2RPS300V	VOLUME	on-site	669331.3	4275318.2	0	0.00000779	(g/s)	5
2RPS300W	VOLUME	on-site	669394.9	4275318.2	0	0.00000779	(g/s)	5
2RPS300X	VOLUME	on-site	669458.5	4275318.2	0	0.00000779	(g/s)	5
2RPS300Y	VOLUME	on-site	669522.1	4275318.2	0	0.00000779	(g/s)	5

2RPS300Z	VOLUME	on-site	669585.7	4275318.2	0	0.00000779	(g/s)	5
2RPS3010	VOLUME	on-site	669649.4	4275318.2	0	0.00000779	(g/s)	5
2RPS3011	VOLUME	on-site	669713.0	4275318.2	0	0.00000779	(g/s)	5
2RPS3012	VOLUME	on-site	669776.6	4275318.2	0	0.00000779	(g/s)	5
2RPS3013	VOLUME	on-site	669840.2	4275318.2	0	0.00000779	(g/s)	5
2RPS3014	VOLUME	on-site	669903.8	4275318.2	0	0.00000779	(g/s)	5
2RPS3015	VOLUME	on-site	669967.4	4275318.2	0	0.00000779	(g/s)	5
2RPS3016	VOLUME	on-site	670031.0	4275318.2	0	0.00000779	(g/s)	5
2RPS3017	VOLUME	on-site	670094.7	4275318.2	0	0.00000779	(g/s)	5
2RPS3018	VOLUME	on-site	670158.3	4275318.2	0	0.00000779	(g/s)	5
2RPS3019	VOLUME	on-site	670221.9	4275318.2	0	0.00000779	(g/s)	5
2RPS301A	VOLUME	on-site	670285.5	4275318.2	0	0.00000779	(g/s)	5
2RPS301B	VOLUME	on-site	670349.1	4275318.2	0	0.00000779	(g/s)	5
2RPS301C	VOLUME	on-site	670412.7	4275318.2	0	0.00000779	(g/s)	5
2RPS301D	VOLUME	on-site	669013.2	4275381.8	0	0.00000779	(g/s)	5
2RPS301E	VOLUME	on-site	669076.8	4275381.8	0	0.00000779	(g/s)	5
2RPS301F	VOLUME	on-site	669140.4	4275381.8	0	0.00000779	(g/s)	5
2RPS301G	VOLUME	on-site	669204.0	4275381.8	0	0.00000779	(g/s)	5
2RPS301H	VOLUME	on-site	669267.7	4275381.8	0	0.00000779	(g/s)	5
2RPS301I	VOLUME	on-site	669331.3	4275381.8	0	0.00000779	(g/s)	5
2RPS301J	VOLUME	on-site	669394.9	4275381.8	0	0.00000779	(g/s)	5
2RPS301K	VOLUME	on-site	669458.5	4275381.8	0	0.00000779	(g/s)	5
2RPS301L	VOLUME	on-site	669522.1	4275381.8	0	0.00000779	(g/s)	5
2RPS301M	VOLUME	on-site	669585.7	4275381.8	0	0.00000779	(g/s)	5
2RPS301N	VOLUME	on-site	669649.4	4275381.8	0	0.00000779	(g/s)	5
2RPS301O	VOLUME	on-site	669713.0	4275381.8	0	0.00000779	(g/s)	5
2RPS301P	VOLUME	on-site	669776.6	4275381.8	0	0.00000779	(g/s)	5
2RPS301Q	VOLUME	on-site	669840.2	4275381.8	0	0.00000779	(g/s)	5
2RPS301R	VOLUME	on-site	669903.8	4275381.8	0	0.00000779	(g/s)	5
2RPS301S	VOLUME	on-site	669967.4	4275381.8	0	0.00000779	(g/s)	5
2RPS301T	VOLUME	on-site	670031.0	4275381.8	0	0.00000779	(g/s)	5
2RPS301U	VOLUME	on-site	670094.7	4275381.8	0	0.00000779	(g/s)	5
2RPS301V	VOLUME	on-site	670158.3	4275381.8	0	0.00000779	(g/s)	5
2RPS301W	VOLUME	on-site	670221.9	4275381.8	0	0.00000779	(g/s)	5
2RPS301X	VOLUME	on-site	670285.5	4275381.8	0	0.00000779	(g/s)	5
2RPS301Y	VOLUME	on-site	670349.1	4275381.8	0	0.00000779	(g/s)	5
2RPS301Z	VOLUME	on-site	670412.7	4275381.8	0	0.00000779	(g/s)	5
2RPS3020	VOLUME	on-site	669013.2	4275445.5	0	0.00000779	(g/s)	5
2RPS3021	VOLUME	on-site	669076.8	4275445.5	0	0.00000779	(g/s)	5
2RPS3022	VOLUME	on-site	669140.4	4275445.5	0	0.00000779	(g/s)	5
2RPS3023	VOLUME	on-site	669204.0	4275445.5	0	0.00000779	(g/s)	5
2RPS3024	VOLUME	on-site	669267.7	4275445.5	0	0.00000779	(g/s)	5
2RPS3025	VOLUME	on-site	669331.3	4275445.5	0	0.00000779	(g/s)	5
2RPS3026	VOLUME	on-site	669394.9	4275445.5	0	0.00000779	(g/s)	5
2RPS3027	VOLUME	on-site	669458.5	4275445.5	0	0.00000779	(g/s)	5
2RPS3028	VOLUME	on-site	669522.1	4275445.5	0	0.00000779	(g/s)	5

2RPS3029	VOLUME	on-site	669585.7	4275445.5	0	0.00000779	(g/s)	5
2RPS302A	VOLUME	on-site	669649.4	4275445.5	0	0.00000779	(g/s)	5
2RPS302B	VOLUME	on-site	669713.0	4275445.5	0	0.00000779	(g/s)	5
2RPS302C	VOLUME	on-site	669776.6	4275445.5	0	0.00000779	(g/s)	5
2RPS302D	VOLUME	on-site	669840.2	4275445.5	0	0.00000779	(g/s)	5
2RPS302E	VOLUME	on-site	669903.8	4275445.5	0	0.00000779	(g/s)	5
2RPS302F	VOLUME	on-site	669967.4	4275445.5	0	0.00000779	(g/s)	5
2RPS302G	VOLUME	on-site	670031.0	4275445.5	0	0.00000779	(g/s)	5
2RPS302H	VOLUME	on-site	670094.7	4275445.5	0	0.00000779	(g/s)	5
2RPS302I	VOLUME	on-site	670158.3	4275445.5	0	0.00000779	(g/s)	5
2RPS302J	VOLUME	on-site	670221.9	4275445.5	0	0.00000779	(g/s)	5
2RPS302K	VOLUME	on-site	670285.5	4275445.5	0	0.00000779	(g/s)	5
2RPS302L	VOLUME	on-site	670349.1	4275445.5	0	0.00000779	(g/s)	5
2RPS302M	VOLUME	on-site	669013.2	4275509.1	0	0.00000779	(g/s)	5
2RPS302N	VOLUME	on-site	669076.8	4275509.1	0	0.00000779	(g/s)	5
2RPS302O	VOLUME	on-site	669140.4	4275509.1	0	0.00000779	(g/s)	5
2RPS302P	VOLUME	on-site	669204.0	4275509.1	0	0.00000779	(g/s)	5
2RPS302Q	VOLUME	on-site	669267.7	4275509.1	0	0.00000779	(g/s)	5
2RPS302R	VOLUME	on-site	669331.3	4275509.1	0	0.00000779	(g/s)	5
2RPS302S	VOLUME	on-site	669394.9	4275509.1	0	0.00000779	(g/s)	5
2RPS302T	VOLUME	on-site	669458.5	4275509.1	0	0.00000779	(g/s)	5
2RPS302U	VOLUME	on-site	669522.1	4275509.1	0	0.00000779	(g/s)	5
2RPS302V	VOLUME	on-site	669585.7	4275509.1	0	0.00000779	(g/s)	5
2RPS302W	VOLUME	on-site	669649.4	4275509.1	0	0.00000779	(g/s)	5
2RPS302X	VOLUME	on-site	669713.0	4275509.1	0	0.00000779	(g/s)	5
2RPS302Y	VOLUME	on-site	669776.6	4275509.1	0	0.00000779	(g/s)	5
2RPS302Z	VOLUME	on-site	669840.2	4275509.1	0	0.00000779	(g/s)	5
2RPS3030	VOLUME	on-site	669903.8	4275509.1	0	0.00000779	(g/s)	5
2RPS3031	VOLUME	on-site	669967.4	4275509.1	0	0.00000779	(g/s)	5
2RPS3032	VOLUME	on-site	670031.0	4275509.1	0	0.00000779	(g/s)	5
2RPS3033	VOLUME	on-site	670094.7	4275509.1	0	0.00000779	(g/s)	5
2RPS3034	VOLUME	on-site	670158.3	4275509.1	0	0.00000779	(g/s)	5
2RPS3035	VOLUME	on-site	670221.9	4275509.1	0	0.00000779	(g/s)	5
2RPS3036	VOLUME	on-site	670285.5	4275509.1	0	0.00000779	(g/s)	5
2RPS3037	VOLUME	on-site	669013.2	4275572.7	0	0.00000779	(g/s)	5
2RPS3038	VOLUME	on-site	669076.8	4275572.7	0	0.00000779	(g/s)	5
2RPS3039	VOLUME	on-site	669140.4	4275572.7	0	0.00000779	(g/s)	5
2RPS303A	VOLUME	on-site	669204.0	4275572.7	0	0.00000779	(g/s)	5
2RPS303B	VOLUME	on-site	669267.7	4275572.7	0	0.00000779	(g/s)	5
2RPS303C	VOLUME	on-site	669331.3	4275572.7	0	0.00000779	(g/s)	5
2RPS303D	VOLUME	on-site	669394.9	4275572.7	0	0.00000779	(g/s)	5
2RPS303E	VOLUME	on-site	669458.5	4275572.7	0	0.00000779	(g/s)	5
2RPS303F	VOLUME	on-site	669522.1	4275572.7	0	0.00000779	(g/s)	5
2RPS303G	VOLUME	on-site	669585.7	4275572.7	0	0.00000779	(g/s)	5
2RPS303H	VOLUME	on-site	669649.4	4275572.7	0	0.00000779	(g/s)	5

2RPS303I	VOLUME	on-site	669713.0	4275572.7	0	0.00000779	(g/s)	5
2RPS303J	VOLUME	on-site	669776.6	4275572.7	0	0.00000779	(g/s)	5
2RPS303K	VOLUME	on-site	669840.2	4275572.7	0	0.00000779	(g/s)	5
2RPS303L	VOLUME	on-site	669903.8	4275572.7	0	0.00000779	(g/s)	5
2RPS303M	VOLUME	on-site	669967.4	4275572.7	0	0.00000779	(g/s)	5
2RPS303N	VOLUME	on-site	670031.0	4275572.7	0	0.00000779	(g/s)	5
2RPS303O	VOLUME	on-site	670094.7	4275572.7	0	0.00000779	(g/s)	5
2RPS303P	VOLUME	on-site	670158.3	4275572.7	0	0.00000779	(g/s)	5
2RPS303Q	VOLUME	on-site	670221.9	4275572.7	0	0.00000779	(g/s)	5
2RPS303R	VOLUME	on-site	669331.3	4275636.3	0	0.00000779	(g/s)	5
2RPS303S	VOLUME	on-site	669394.9	4275636.3	0	0.00000779	(g/s)	5
2RPS303T	VOLUME	on-site	669458.5	4275636.3	0	0.00000779	(g/s)	5
2RPS303U	VOLUME	on-site	669522.1	4275636.3	0	0.00000779	(g/s)	5
2RPS303V	VOLUME	on-site	669585.7	4275636.3	0	0.00000779	(g/s)	5
2RPS303W	VOLUME	on-site	669649.4	4275636.3	0	0.00000779	(g/s)	5
2RPS303X	VOLUME	on-site	669713.0	4275636.3	0	0.00000779	(g/s)	5
2RPS303Y	VOLUME	on-site	669776.6	4275636.3	0	0.00000779	(g/s)	5
2RPS303Z	VOLUME	on-site	669840.2	4275636.3	0	0.00000779	(g/s)	5
2RPS3040	VOLUME	on-site	669903.8	4275636.3	0	0.00000779	(g/s)	5
2RPS3041	VOLUME	on-site	669967.4	4275636.3	0	0.00000779	(g/s)	5
2RPS3042	VOLUME	on-site	670031.0	4275636.3	0	0.00000779	(g/s)	5
2RPS3043	VOLUME	on-site	670094.7	4275636.3	0	0.00000779	(g/s)	5
2RPS3044	VOLUME	on-site	670158.3	4275636.3	0	0.00000779	(g/s)	5
2RPS3045	VOLUME	on-site	669394.9	4275699.9	0	0.00000779	(g/s)	5
2RPS3046	VOLUME	on-site	669458.5	4275699.9	0	0.00000779	(g/s)	5
2RPS3047	VOLUME	on-site	669522.1	4275699.9	0	0.00000779	(g/s)	5
2RPS3048	VOLUME	on-site	669585.7	4275699.9	0	0.00000779	(g/s)	5
2RPS3049	VOLUME	on-site	669649.4	4275699.9	0	0.00000779	(g/s)	5
2RPS304A	VOLUME	on-site	669713.0	4275699.9	0	0.00000779	(g/s)	5
2RPS304B	VOLUME	on-site	669776.6	4275699.9	0	0.00000779	(g/s)	5
2RPS304C	VOLUME	on-site	669840.2	4275699.9	0	0.00000779	(g/s)	5
2RPS304D	VOLUME	on-site	669903.8	4275699.9	0	0.00000779	(g/s)	5
2RPS304E	VOLUME	on-site	669967.4	4275699.9	0	0.00000779	(g/s)	5
2RPS304F	VOLUME	on-site	670031.0	4275699.9	0	0.00000779	(g/s)	5
2RPS304G	VOLUME	on-site	670094.7	4275699.9	0	0.00000779	(g/s)	5
2RPS304H	VOLUME	on-site	670158.3	4275699.9	0	0.00000779	(g/s)	5
2RPS304I	VOLUME	on-site	669458.5	4275763.5	0	0.00000779	(g/s)	5
2RPS304J	VOLUME	on-site	669522.1	4275763.5	0	0.00000779	(g/s)	5
2RPS304K	VOLUME	on-site	669585.7	4275763.5	0	0.00000779	(g/s)	5
2RPS304L	VOLUME	on-site	669649.4	4275763.5	0	0.00000779	(g/s)	5
2RPS304M	VOLUME	on-site	669713.0	4275763.5	0	0.00000779	(g/s)	5
2RPS304N	VOLUME	on-site	669776.6	4275763.5	0	0.00000779	(g/s)	5
2RPS304O	VOLUME	on-site	669840.2	4275763.5	0	0.00000779	(g/s)	5
2RPS304P	VOLUME	on-site	669903.8	4275763.5	0	0.00000779	(g/s)	5
2RPS304Q	VOLUME	on-site	669967.4	4275763.5	0	0.00000779	(g/s)	5
2RPS304R	VOLUME	on-site	670031.0	4275763.5	0	0.00000779	(g/s)	5

2RPS304S	VOLUME	on-site	670094.7	4275763.5	0	0.00000779	(g/s)	5
2RPS304T	VOLUME	on-site	669522.1	4275827.2	0	0.00000779	(g/s)	5
2RPS304U	VOLUME	on-site	669585.7	4275827.2	0	0.00000779	(g/s)	5
2RPS304V	VOLUME	on-site	669649.4	4275827.2	0	0.00000779	(g/s)	5
2RPS304W	VOLUME	on-site	669713.0	4275827.2	0	0.00000779	(g/s)	5
2RPS304X	VOLUME	on-site	669776.6	4275827.2	0	0.00000779	(g/s)	5
2RPS304Y	VOLUME	on-site	669840.2	4275827.2	0	0.00000779	(g/s)	5
2RPS304Z	VOLUME	on-site	669903.8	4275827.2	0	0.00000779	(g/s)	5
2RPS3050	VOLUME	on-site	669967.4	4275827.2	0	0.00000779	(g/s)	5
2RPS3051	VOLUME	on-site	670031.0	4275827.2	0	0.00000779	(g/s)	5
2RPS3052	VOLUME	on-site	669585.7	4275890.8	0	0.00000779	(g/s)	5
2RPS3053	VOLUME	on-site	669649.4	4275890.8	0	0.00000779	(g/s)	5
2RPS3054	VOLUME	on-site	669713.0	4275890.8	0	0.00000779	(g/s)	5
2RPS3055	VOLUME	on-site	669776.6	4275890.8	0	0.00000779	(g/s)	5
2RPS3056	VOLUME	on-site	669840.2	4275890.8	0	0.00000779	(g/s)	5
2RPS3057	VOLUME	on-site	669903.8	4275890.8	0	0.00000779	(g/s)	5
2RPS3058	VOLUME	on-site	669967.4	4275890.8	0	0.00000779	(g/s)	5
2RPS3059	VOLUME	on-site	669649.4	4275954.4	0	0.00000779	(g/s)	5
2RPS305A	VOLUME	on-site	669713.0	4275954.4	0	0.00000779	(g/s)	5
2RPS305B	VOLUME	on-site	669776.6	4275954.4	0	0.00000779	(g/s)	5
2RPS305C	VOLUME	on-site	669840.2	4275954.4	0	0.00000779	(g/s)	5
2RPS305D	VOLUME	on-site	669903.8	4275954.4	0	0.00000779	(g/s)	5
2RPS305E	VOLUME	on-site	669713.0	4276018.0	0	0.00000779	(g/s)	5
2RPS305F	VOLUME	on-site	669776.6	4276018.0	0	0.00000779	(g/s)	5
2RPS305G	VOLUME	on-site	669840.2	4276018.0	0	0.00000779	(g/s)	5
2RPS305H	VOLUME	on-site	669776.6	4276081.6	0	0.00000779	(g/s)	5
2RPS3070	VOLUME		668790.8	4278274.3	0	0.00001391	(g/s)	5
2RPS3071	VOLUME		668819.2	4278215.0	0	0.00001391	(g/s)	5
2RPS3072	VOLUME		668828.8	4278151.5	0	0.00001391	(g/s)	5
2RPS3073	VOLUME		668880.2	4278117.6	0	0.00001391	(g/s)	5
2RPS3074	VOLUME		668949.2	4278045.3	0	0.00001391	(g/s)	5
2RPS3075	VOLUME		668991.4	4277955.0	0	0.00001391	(g/s)	5
2RPS3076	VOLUME		668991.7	4277858.7	0	0.00001391	(g/s)	5
2RPS3077	VOLUME		668993.0	4277757.7	0	0.00001391	(g/s)	5
2RPS3078	VOLUME		668997.1	4277657.8	0	0.00001391	(g/s)	5
2RPS3079	VOLUME		669001.0	4277557.9	0	0.00001391	(g/s)	5
2RPS307A	VOLUME		669004.8	4277458.0	0	0.00001391	(g/s)	5
2RPS307B	VOLUME		669010.1	4277358.1	0	0.00001391	(g/s)	5
2RPS307C	VOLUME		669020.4	4277258.8	0	0.00001391	(g/s)	5
2RPS307D	VOLUME		669051.0	4277164.8	0	0.00001391	(g/s)	5
2RPS307E	VOLUME		669100.9	4277078.1	0	0.00001391	(g/s)	5
2RPS307F	VOLUME		669156.9	4276995.3	0	0.00001391	(g/s)	5
2RPS307G	VOLUME		669212.9	4276912.4	0	0.00001391	(g/s)	5
2RPS307H	VOLUME		669270.8	4276831.0	0	0.00001391	(g/s)	5
2RPS307I	VOLUME		669330.0	4276750.4	0	0.00001391	(g/s)	5

2RPS307J	VOLUME		669386.5	4276667.9	0	0.00001391	(g/s)	5
2RPS307K	VOLUME		669441.8	4276584.5	0	0.00001391	(g/s)	5
2RPS307L	VOLUME		669495.7	4276500.3	0	0.00001391	(g/s)	5
2RPS307M	VOLUME		669550.1	4276416.4	0	0.00001391	(g/s)	5
2RPS307N	VOLUME		669607.0	4276334.2	0	0.00001391	(g/s)	5
2RPS307O	VOLUME		669663.7	4276251.8	0	0.00001391	(g/s)	5
2RPS307P	VOLUME		669725.6	4276173.5	0	0.00001391	(g/s)	5

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
2RPS3001	on-site	669013.2	4275254.6	0	0.00000779	5	29.59	1
2RPS3002	on-site	669076.8	4275254.6	0	0.00000779	5	29.59	1
2RPS3003	on-site	669140.4	4275254.6	0	0.00000779	5	29.59	1
2RPS3004	on-site	669204.0	4275254.6	0	0.00000779	5	29.59	1
2RPS3005	on-site	669267.7	4275254.6	0	0.00000779	5	29.59	1
2RPS3006	on-site	669331.3	4275254.6	0	0.00000779	5	29.59	1
2RPS3007	on-site	669394.9	4275254.6	0	0.00000779	5	29.59	1
2RPS3008	on-site	669458.5	4275254.6	0	0.00000779	5	29.59	1
2RPS3009	on-site	669522.1	4275254.6	0	0.00000779	5	29.59	1
2RPS300A	on-site	669585.7	4275254.6	0	0.00000779	5	29.59	1
2RPS300B	on-site	669649.4	4275254.6	0	0.00000779	5	29.59	1
2RPS300C	on-site	669713.0	4275254.6	0	0.00000779	5	29.59	1
2RPS300D	on-site	669776.6	4275254.6	0	0.00000779	5	29.59	1
2RPS300E	on-site	669840.2	4275254.6	0	0.00000779	5	29.59	1
2RPS300F	on-site	669903.8	4275254.6	0	0.00000779	5	29.59	1
2RPS300G	on-site	669967.4	4275254.6	0	0.00000779	5	29.59	1
2RPS300H	on-site	670031.0	4275254.6	0	0.00000779	5	29.59	1
2RPS300I	on-site	670094.7	4275254.6	0	0.00000779	5	29.59	1
2RPS300J	on-site	670158.3	4275254.6	0	0.00000779	5	29.59	1
2RPS300K	on-site	670221.9	4275254.6	0	0.00000779	5	29.59	1
2RPS300L	on-site	670285.5	4275254.6	0	0.00000779	5	29.59	1
2RPS300M	on-site	670349.1	4275254.6	0	0.00000779	5	29.59	1
2RPS300N	on-site	670412.7	4275254.6	0	0.00000779	5	29.59	1
2RPS300O	on-site	670476.3	4275254.6	0	0.00000779	5	29.59	1
2RPS300P	on-site	670540.0	4275254.6	0	0.00000779	5	29.59	1
2RPS300Q	on-site	669013.2	4275318.2	0	0.00000779	5	29.59	1
2RPS300R	on-site	669076.8	4275318.2	0	0.00000779	5	29.59	1
2RPS300S	on-site	669140.4	4275318.2	0	0.00000779	5	29.59	1
2RPS300T	on-site	669204.0	4275318.2	0	0.00000779	5	29.59	1
2RPS300U	on-site	669267.7	4275318.2	0	0.00000779	5	29.59	1
2RPS300V	on-site	669331.3	4275318.2	0	0.00000779	5	29.59	1
2RPS300W	on-site	669394.9	4275318.2	0	0.00000779	5	29.59	1
2RPS300X	on-site	669458.5	4275318.2	0	0.00000779	5	29.59	1

2RPS300Y	on-site	669522.1	4275318.2	0	0.00000779	5	29.59	1
2RPS300Z	on-site	669585.7	4275318.2	0	0.00000779	5	29.59	1
2RPS3010	on-site	669649.4	4275318.2	0	0.00000779	5	29.59	1
2RPS3011	on-site	669713.0	4275318.2	0	0.00000779	5	29.59	1
2RPS3012	on-site	669776.6	4275318.2	0	0.00000779	5	29.59	1
2RPS3013	on-site	669840.2	4275318.2	0	0.00000779	5	29.59	1
2RPS3014	on-site	669903.8	4275318.2	0	0.00000779	5	29.59	1
2RPS3015	on-site	669967.4	4275318.2	0	0.00000779	5	29.59	1
2RPS3016	on-site	670031.0	4275318.2	0	0.00000779	5	29.59	1
2RPS3017	on-site	670094.7	4275318.2	0	0.00000779	5	29.59	1
2RPS3018	on-site	670158.3	4275318.2	0	0.00000779	5	29.59	1
2RPS3019	on-site	670221.9	4275318.2	0	0.00000779	5	29.59	1
2RPS301A	on-site	670285.5	4275318.2	0	0.00000779	5	29.59	1
2RPS301B	on-site	670349.1	4275318.2	0	0.00000779	5	29.59	1
2RPS301C	on-site	670412.7	4275318.2	0	0.00000779	5	29.59	1
2RPS301D	on-site	669013.2	4275381.8	0	0.00000779	5	29.59	1
2RPS301E	on-site	669076.8	4275381.8	0	0.00000779	5	29.59	1
2RPS301F	on-site	669140.4	4275381.8	0	0.00000779	5	29.59	1
2RPS301G	on-site	669204.0	4275381.8	0	0.00000779	5	29.59	1
2RPS301H	on-site	669267.7	4275381.8	0	0.00000779	5	29.59	1
2RPS301I	on-site	669331.3	4275381.8	0	0.00000779	5	29.59	1
2RPS301J	on-site	669394.9	4275381.8	0	0.00000779	5	29.59	1
2RPS301K	on-site	669458.5	4275381.8	0	0.00000779	5	29.59	1
2RPS301L	on-site	669522.1	4275381.8	0	0.00000779	5	29.59	1
2RPS301M	on-site	669585.7	4275381.8	0	0.00000779	5	29.59	1
2RPS301N	on-site	669649.4	4275381.8	0	0.00000779	5	29.59	1
2RPS301O	on-site	669713.0	4275381.8	0	0.00000779	5	29.59	1
2RPS301P	on-site	669776.6	4275381.8	0	0.00000779	5	29.59	1
2RPS301Q	on-site	669840.2	4275381.8	0	0.00000779	5	29.59	1
2RPS301R	on-site	669903.8	4275381.8	0	0.00000779	5	29.59	1
2RPS301S	on-site	669967.4	4275381.8	0	0.00000779	5	29.59	1
2RPS301T	on-site	670031.0	4275381.8	0	0.00000779	5	29.59	1
2RPS301U	on-site	670094.7	4275381.8	0	0.00000779	5	29.59	1
2RPS301V	on-site	670158.3	4275381.8	0	0.00000779	5	29.59	1
2RPS301W	on-site	670221.9	4275381.8	0	0.00000779	5	29.59	1
2RPS301X	on-site	670285.5	4275381.8	0	0.00000779	5	29.59	1
2RPS301Y	on-site	670349.1	4275381.8	0	0.00000779	5	29.59	1
2RPS301Z	on-site	670412.7	4275381.8	0	0.00000779	5	29.59	1
2RPS3020	on-site	669013.2	4275445.5	0	0.00000779	5	29.59	1
2RPS3021	on-site	669076.8	4275445.5	0	0.00000779	5	29.59	1
2RPS3022	on-site	669140.4	4275445.5	0	0.00000779	5	29.59	1
2RPS3023	on-site	669204.0	4275445.5	0	0.00000779	5	29.59	1
2RPS3024	on-site	669267.7	4275445.5	0	0.00000779	5	29.59	1
2RPS3025	on-site	669331.3	4275445.5	0	0.00000779	5	29.59	1
2RPS3026	on-site	669394.9	4275445.5	0	0.00000779	5	29.59	1
2RPS3027	on-site	669458.5	4275445.5	0	0.00000779	5	29.59	1

2RPS3028	on-site	669522.1	4275445.5	0	0.00000779	5	29.59	1
2RPS3029	on-site	669585.7	4275445.5	0	0.00000779	5	29.59	1
2RPS302A	on-site	669649.4	4275445.5	0	0.00000779	5	29.59	1
2RPS302B	on-site	669713.0	4275445.5	0	0.00000779	5	29.59	1
2RPS302C	on-site	669776.6	4275445.5	0	0.00000779	5	29.59	1
2RPS302D	on-site	669840.2	4275445.5	0	0.00000779	5	29.59	1
2RPS302E	on-site	669903.8	4275445.5	0	0.00000779	5	29.59	1
2RPS302F	on-site	669967.4	4275445.5	0	0.00000779	5	29.59	1
2RPS302G	on-site	670031.0	4275445.5	0	0.00000779	5	29.59	1
2RPS302H	on-site	670094.7	4275445.5	0	0.00000779	5	29.59	1
2RPS302I	on-site	670158.3	4275445.5	0	0.00000779	5	29.59	1
2RPS302J	on-site	670221.9	4275445.5	0	0.00000779	5	29.59	1
2RPS302K	on-site	670285.5	4275445.5	0	0.00000779	5	29.59	1
2RPS302L	on-site	670349.1	4275445.5	0	0.00000779	5	29.59	1
2RPS302M	on-site	669013.2	4275509.1	0	0.00000779	5	29.59	1
2RPS302N	on-site	669076.8	4275509.1	0	0.00000779	5	29.59	1
2RPS302O	on-site	669140.4	4275509.1	0	0.00000779	5	29.59	1
2RPS302P	on-site	669204.0	4275509.1	0	0.00000779	5	29.59	1
2RPS302Q	on-site	669267.7	4275509.1	0	0.00000779	5	29.59	1
2RPS302R	on-site	669331.3	4275509.1	0	0.00000779	5	29.59	1
2RPS302S	on-site	669394.9	4275509.1	0	0.00000779	5	29.59	1
2RPS302T	on-site	669458.5	4275509.1	0	0.00000779	5	29.59	1
2RPS302U	on-site	669522.1	4275509.1	0	0.00000779	5	29.59	1
2RPS302V	on-site	669585.7	4275509.1	0	0.00000779	5	29.59	1
2RPS302W	on-site	669649.4	4275509.1	0	0.00000779	5	29.59	1
2RPS302X	on-site	669713.0	4275509.1	0	0.00000779	5	29.59	1
2RPS302Y	on-site	669776.6	4275509.1	0	0.00000779	5	29.59	1
2RPS302Z	on-site	669840.2	4275509.1	0	0.00000779	5	29.59	1
2RPS3030	on-site	669903.8	4275509.1	0	0.00000779	5	29.59	1
2RPS3031	on-site	669967.4	4275509.1	0	0.00000779	5	29.59	1
2RPS3032	on-site	670031.0	4275509.1	0	0.00000779	5	29.59	1
2RPS3033	on-site	670094.7	4275509.1	0	0.00000779	5	29.59	1
2RPS3034	on-site	670158.3	4275509.1	0	0.00000779	5	29.59	1
2RPS3035	on-site	670221.9	4275509.1	0	0.00000779	5	29.59	1
2RPS3036	on-site	670285.5	4275509.1	0	0.00000779	5	29.59	1
2RPS3037	on-site	669013.2	4275572.7	0	0.00000779	5	29.59	1
2RPS3038	on-site	669076.8	4275572.7	0	0.00000779	5	29.59	1
2RPS3039	on-site	669140.4	4275572.7	0	0.00000779	5	29.59	1
2RPS303A	on-site	669204.0	4275572.7	0	0.00000779	5	29.59	1
2RPS303B	on-site	669267.7	4275572.7	0	0.00000779	5	29.59	1
2RPS303C	on-site	669331.3	4275572.7	0	0.00000779	5	29.59	1
2RPS303D	on-site	669394.9	4275572.7	0	0.00000779	5	29.59	1
2RPS303E	on-site	669458.5	4275572.7	0	0.00000779	5	29.59	1
2RPS303F	on-site	669522.1	4275572.7	0	0.00000779	5	29.59	1
2RPS303G	on-site	669585.7	4275572.7	0	0.00000779	5	29.59	1

2RPS303H	on-site	669649.4	4275572.7	0	0.00000779	5	29.59	1
2RPS303I	on-site	669713.0	4275572.7	0	0.00000779	5	29.59	1
2RPS303J	on-site	669776.6	4275572.7	0	0.00000779	5	29.59	1
2RPS303K	on-site	669840.2	4275572.7	0	0.00000779	5	29.59	1
2RPS303L	on-site	669903.8	4275572.7	0	0.00000779	5	29.59	1
2RPS303M	on-site	669967.4	4275572.7	0	0.00000779	5	29.59	1
2RPS303N	on-site	670031.0	4275572.7	0	0.00000779	5	29.59	1
2RPS303O	on-site	670094.7	4275572.7	0	0.00000779	5	29.59	1
2RPS303P	on-site	670158.3	4275572.7	0	0.00000779	5	29.59	1
2RPS303Q	on-site	670221.9	4275572.7	0	0.00000779	5	29.59	1
2RPS303R	on-site	669331.3	4275636.3	0	0.00000779	5	29.59	1
2RPS303S	on-site	669394.9	4275636.3	0	0.00000779	5	29.59	1
2RPS303T	on-site	669458.5	4275636.3	0	0.00000779	5	29.59	1
2RPS303U	on-site	669522.1	4275636.3	0	0.00000779	5	29.59	1
2RPS303V	on-site	669585.7	4275636.3	0	0.00000779	5	29.59	1
2RPS303W	on-site	669649.4	4275636.3	0	0.00000779	5	29.59	1
2RPS303X	on-site	669713.0	4275636.3	0	0.00000779	5	29.59	1
2RPS303Y	on-site	669776.6	4275636.3	0	0.00000779	5	29.59	1
2RPS303Z	on-site	669840.2	4275636.3	0	0.00000779	5	29.59	1
2RPS3040	on-site	669903.8	4275636.3	0	0.00000779	5	29.59	1
2RPS3041	on-site	669967.4	4275636.3	0	0.00000779	5	29.59	1
2RPS3042	on-site	670031.0	4275636.3	0	0.00000779	5	29.59	1
2RPS3043	on-site	670094.7	4275636.3	0	0.00000779	5	29.59	1
2RPS3044	on-site	670158.3	4275636.3	0	0.00000779	5	29.59	1
2RPS3045	on-site	669394.9	4275699.9	0	0.00000779	5	29.59	1
2RPS3046	on-site	669458.5	4275699.9	0	0.00000779	5	29.59	1
2RPS3047	on-site	669522.1	4275699.9	0	0.00000779	5	29.59	1
2RPS3048	on-site	669585.7	4275699.9	0	0.00000779	5	29.59	1
2RPS3049	on-site	669649.4	4275699.9	0	0.00000779	5	29.59	1
2RPS304A	on-site	669713.0	4275699.9	0	0.00000779	5	29.59	1
2RPS304B	on-site	669776.6	4275699.9	0	0.00000779	5	29.59	1
2RPS304C	on-site	669840.2	4275699.9	0	0.00000779	5	29.59	1
2RPS304D	on-site	669903.8	4275699.9	0	0.00000779	5	29.59	1
2RPS304E	on-site	669967.4	4275699.9	0	0.00000779	5	29.59	1
2RPS304F	on-site	670031.0	4275699.9	0	0.00000779	5	29.59	1
2RPS304G	on-site	670094.7	4275699.9	0	0.00000779	5	29.59	1
2RPS304H	on-site	670158.3	4275699.9	0	0.00000779	5	29.59	1
2RPS304I	on-site	669458.5	4275763.5	0	0.00000779	5	29.59	1
2RPS304J	on-site	669522.1	4275763.5	0	0.00000779	5	29.59	1
2RPS304K	on-site	669585.7	4275763.5	0	0.00000779	5	29.59	1
2RPS304L	on-site	669649.4	4275763.5	0	0.00000779	5	29.59	1
2RPS304M	on-site	669713.0	4275763.5	0	0.00000779	5	29.59	1
2RPS304N	on-site	669776.6	4275763.5	0	0.00000779	5	29.59	1
2RPS304O	on-site	669840.2	4275763.5	0	0.00000779	5	29.59	1
2RPS304P	on-site	669903.8	4275763.5	0	0.00000779	5	29.59	1
2RPS304Q	on-site	669967.4	4275763.5	0	0.00000779	5	29.59	1

2RPS304R	on-site	670031.0	4275763.5	0	0.00000779	5	29.59	1
2RPS304S	on-site	670094.7	4275763.5	0	0.00000779	5	29.59	1
2RPS304T	on-site	669522.1	4275827.2	0	0.00000779	5	29.59	1
2RPS304U	on-site	669585.7	4275827.2	0	0.00000779	5	29.59	1
2RPS304V	on-site	669649.4	4275827.2	0	0.00000779	5	29.59	1
2RPS304W	on-site	669713.0	4275827.2	0	0.00000779	5	29.59	1
2RPS304X	on-site	669776.6	4275827.2	0	0.00000779	5	29.59	1
2RPS304Y	on-site	669840.2	4275827.2	0	0.00000779	5	29.59	1
2RPS304Z	on-site	669903.8	4275827.2	0	0.00000779	5	29.59	1
2RPS3050	on-site	669967.4	4275827.2	0	0.00000779	5	29.59	1
2RPS3051	on-site	670031.0	4275827.2	0	0.00000779	5	29.59	1
2RPS3052	on-site	669585.7	4275890.8	0	0.00000779	5	29.59	1
2RPS3053	on-site	669649.4	4275890.8	0	0.00000779	5	29.59	1
2RPS3054	on-site	669713.0	4275890.8	0	0.00000779	5	29.59	1
2RPS3055	on-site	669776.6	4275890.8	0	0.00000779	5	29.59	1
2RPS3056	on-site	669840.2	4275890.8	0	0.00000779	5	29.59	1
2RPS3057	on-site	669903.8	4275890.8	0	0.00000779	5	29.59	1
2RPS3058	on-site	669967.4	4275890.8	0	0.00000779	5	29.59	1
2RPS3059	on-site	669649.4	4275954.4	0	0.00000779	5	29.59	1
2RPS305A	on-site	669713.0	4275954.4	0	0.00000779	5	29.59	1
2RPS305B	on-site	669776.6	4275954.4	0	0.00000779	5	29.59	1
2RPS305C	on-site	669840.2	4275954.4	0	0.00000779	5	29.59	1
2RPS305D	on-site	669903.8	4275954.4	0	0.00000779	5	29.59	1
2RPS305E	on-site	669713.0	4276018.0	0	0.00000779	5	29.59	1
2RPS305F	on-site	669776.6	4276018.0	0	0.00000779	5	29.59	1
2RPS305G	on-site	669840.2	4276018.0	0	0.00000779	5	29.59	1
2RPS305H	on-site	669776.6	4276081.6	0	0.00000779	5	29.59	1
2RPS3070		668790.8	4278274.3	0	0.00001391	5	29.59	1
2RPS3071		668819.2	4278215.0	0	0.00001391	5	29.59	1
2RPS3072		668828.8	4278151.5	0	0.00001391	5	29.59	1
2RPS3073		668880.2	4278117.6	0	0.00001391	5	29.59	1
2RPS3074		668949.2	4278045.3	0	0.00001391	5	29.59	1
2RPS3075		668991.4	4277955.0	0	0.00001391	5	29.59	1
2RPS3076		668991.7	4277858.7	0	0.00001391	5	29.59	1
2RPS3077		668993.0	4277757.7	0	0.00001391	5	29.59	1
2RPS3078		668997.1	4277657.8	0	0.00001391	5	29.59	1
2RPS3079		669001.0	4277557.9	0	0.00001391	5	29.59	1
2RPS307A		669004.8	4277458.0	0	0.00001391	5	29.59	1
2RPS307B		669010.1	4277358.1	0	0.00001391	5	29.59	1
2RPS307C		669020.4	4277258.8	0	0.00001391	5	29.59	1
2RPS307D		669051.0	4277164.8	0	0.00001391	5	29.59	1
2RPS307E		669100.9	4277078.1	0	0.00001391	5	29.59	1
2RPS307F		669156.9	4276995.3	0	0.00001391	5	29.59	1
2RPS307G		669212.9	4276912.4	0	0.00001391	5	29.59	1
2RPS307H		669270.8	4276831.0	0	0.00001391	5	29.59	1

2RPS307I		669330.0	4276750.4	0	0.00001391	5	29.59	1
2RPS307J		669386.5	4276667.9	0	0.00001391	5	29.59	1
2RPS307K		669441.8	4276584.5	0	0.00001391	5	29.59	1
2RPS307L		669495.7	4276500.3	0	0.00001391	5	29.59	1
2RPS307M		669550.1	4276416.4	0	0.00001391	5	29.59	1
2RPS307N		669607.0	4276334.2	0	0.00001391	5	29.59	1
2RPS307O		669663.7	4276251.8	0	0.00001391	5	29.59	1
2RPS307P		669725.6	4276173.5	0	0.00001391	5	29.59	1

*HARP - HRACalc v22118 2/20/2024 8:49:26 AM - Cancer Risk - Input File: C:\Users\Ufahrney\Desktop\HARP\Creekside Village SP_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
1			9901	DieselExhPM	0.00531	2.06E-06	3.167YrCancerHighEnd_Inh_FAH16to70	*	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 2/20/2024 8:49:26 AM - Acute Risk - Input File: C:\Users\Jfahrney\Desktop\HARP\Creekside Village SP_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
1			9901	DieselExhPM	0.16229	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 2/20/2024 8:49:26 AM - Chronic Risk - Input File: C:\Users\Ufahrney\Desktop\HARP\Creekside Village SP_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
1			9901	DieselExhPM	0.00531	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	5.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

Active Adult Option Technical Memorandum (December 2024)

RANEY
PLANNING & MANAGEMENT, INC.

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NORTHERN CALIFORNIA
1501 SPORTS DRIVE, SUITE A
SACRAMENTO, CA 95834
TEL: 916.372.6100 · FAX: 916.419.6108

December 5, 2024

To: Anthony Gon, Project Manager
Winn Communities
555 University Avenue, Suite 180
Sacramento, CA 95825

Subject: Creekside Village Specific Plan Project – Active Adult Project Option Technical Memorandum

Dear Mr. Gon:

Raney Planning & Management, Inc. (Raney) has prepared the following technical memorandum to present the emissions that would result from the Active Adult Project Option of the Creekside Village Specific Plan Project (proposed project). This technical memorandum is intended to supersede the original Active Adult Project Option Technical Memorandum that was prepared on June 14, 2024, as this technical memorandum includes the results of the new emissions modeling that was prepared using the California Emissions Estimator Model (CalEEMod) in November 2024.

It is our understanding that under the Active Adult Project Option, 768 units of the 918 proposed single-family residences would be age-restricted units. All other aspects of the project would remain the same. Given the similarities between the proposed project and the Active Adult Project Option, construction emissions, including criteria pollutant emissions and greenhouse gas (GHG) emissions, would remain the same as presented in the April 2024 Creekside Village Air Quality and Greenhouse Gas Impact Analysis. In addition, the results of the construction-related health risk assessment (HRA) conducted as part of the April 2024 Creekside Village Air Quality and Greenhouse Gas Impact Analysis would remain the same.

However, age-restricted households generate fewer trips than traditional households. As such, updated trip generation rates were provided for the Active Adult Project Option by T. Kear Transportation Planning and Management, Inc. (T. Kear). To account for the updated trip generation rates, operational emissions associated with the Active Adult Project Option were estimated using the CalEEMod version 2022.1.1.29.

The maximum unmitigated operational criteria pollutant emissions for the Active Adult Project Option, as compared to the proposed project, are presented in Table 1.

Table 1
Maximum Unmitigated Operational Emissions (lbs/day)

	ROG	NO_X
Proposed Project Emissions	100	51.2
Active Adult Project Option Emissions	84.9	47.4
Reduction	*-15.1*	*-3.8*
EDCAQMD Significance Threshold	**82.0**	**82.0**
Exceeds Threshold?	**YES**	**NO**

Source: CalEEMod, November 2024 (see Attachment A).

As shown in the table, the Active Adult Project Option would result in a reduction in operational ROG and NO_X emissions as compared to the proposed project. However, while NO_x emissions

would remain below the applicable EDCAQMD threshold of significance, ROG emissions would still exceed the applicable EDCAQMD threshold of significance. Therefore, Mitigation Measure AQ-1 included in the April 2024 Creekside Village Air Quality and Greenhouse Gas Impact Analysis (carried forward as Mitigation Measures AQ-1 through AQ-4 included in the Air Quality Chapter of the Draft EIR prepared for the proposed project) would still be required under the Active Adult Project Option, and, similar to the proposed project, the Active Adult Project Option would result in a ***significant and unavoidable*** impact associated with operational criteria pollutant emissions.

It should also be noted that maximum unmitigated operational GHG emissions associated with the Active Adult Project Option would be 9,487 metric tons of carbon dioxide equivalents per year ($MTCO_2e$/yr), which is a reduction of 247 $MTCO_2e$/yr compared to the 9,761 $MTCO_2e$/yr associated with operation of the proposed project. Impacts related to operational GHG emissions associated with the proposed project were analyzed within the April 2024 Creekside Village Air Quality and Greenhouse Gas Impact Analysis using the Sacramento Metropolitan Air Quality Management District's (SMAQMD's) qualitative best management practice (BMP)-based thresholds of significance. Given the similarities of the proposed project and the Active Adult Project Option, consistency with SMAQMD BMP-1 and BMP-2 cannot be ensured at this time. As such, even with the reduction in GHG emissions, because the project analysis is based on SMAQMD's qualitative BMP-based thresholds of significance, impacts associated with operational GHG emissions would remain the same as presented in the April 2024 Creekside Village Air Quality and Greenhouse Gas Impact Analysis, and Mitigation Measure GHG-1 included therein (carried forward as Mitigation Measures GHG-1 and GHG-2 included in the Greenhouse Gas Emissions Chapter of the Draft EIR prepared for the proposed project) would still be required.

If you have any questions regarding the contents of this document, please do not hesitate to contact me at (916) 372-6100, or via email at rods@raneymanagement.com.

Best Regards,

Rod Stinson
Vice President/Air Quality Specialist
phone. (916) 372-6100 1501 Sports Drive, Suite A, Sacramento, CA 95834
fax. (916) 419-6108 www.raneymanagement.com

RANEY
PLANNING & MANAGEMENT, INC.

Attachment A
CalEEMod Results

Creekside Village Specific Plan - Senior Housing Project Option Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Creekside Village Specific Plan - Senior Housing Project Option
Construction Start Date	6/3/2025
Operational Year	2028
Lead Agency	El Dorado County
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.61348203944053, -121.05086586387135
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	470
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	150	Dwelling Unit	22.3	292,500	131,436	—	381	—

Fast Food Restaurant with Drive Thru	2.40	1000sqft	0.47	2,400	2,768	—	—	—
Fast Food Restaurant w/o Drive Thru	1.50	1000sqft	0.29	1,500	1,708	—	—	—
High Turnover (Sit Down Restaurant)	1.50	1000sqft	0.29	1,500	1,708	—	—	—
Parking Lot	70.0	Space	0.75	0.00	4,417	—	—	—
City Park	13.6	Acre	13.6	0.00	592,416	592,416	—	—
Other Asphalt Surfaces	11.1	Acre	11.1	0.00	0.00	—	—	—
Other Asphalt Surfaces	52.5	1000sqft	1.21	0.00	0.00	—	—	—
Single Family Housing	768	Dwelling Unit	114	1,497,600	672,964	—	1,951	Age-Restricted Units

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	50.5	50.1	29.7	38.4	0.06	1.23	9.41	10.6	1.14	3.70	4.84	—	9,998	9,998	0.28	0.66	22.7	10,221
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	50.5	50.1	18.1	34.8	0.04	0.50	4.78	5.28	0.46	1.15	1.61	—	9,681	9,681	0.21	0.66	0.64	9,882

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	36.0	35.7	12.0	24.0	0.03	0.30	3.40	3.70	0.28	0.81	1.09	—	6,889	6,889	0.14	0.47	7.01	7,039
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.56	6.51	2.19	4.38	0.01	0.05	0.62	0.67	0.05	0.15	0.20	—	1,140	1,140	0.02	0.08	1.16	1,165

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.91	3.29	29.7	29.6	0.06	1.23	9.41	10.6	1.14	3.70	4.84	—	6,823	6,823	0.28	0.06	0.87	6,849
2026	50.5	50.1	16.3	38.4	0.04	0.42	4.78	5.21	0.39	1.15	1.54	—	9,998	9,998	0.18	0.66	22.7	10,221
2027	50.4	50.0	15.6	36.9	0.04	0.37	4.78	5.16	0.35	1.15	1.49	—	9,867	9,867	0.18	0.63	20.7	10,079
2028	50.1	49.9	14.7	35.5	0.04	0.33	4.78	5.12	0.31	1.15	1.46	—	9,713	9,713	0.17	0.63	18.8	9,923
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	50.5	50.1	18.1	34.8	0.04	0.50	4.78	5.28	0.46	1.15	1.61	—	9,681	9,681	0.21	0.66	0.64	9,882
2026	50.4	49.9	17.0	33.4	0.04	0.42	4.78	5.21	0.39	1.15	1.54	—	9,558	9,558	0.20	0.66	0.59	9,760
2027	50.1	49.8	16.1	32.1	0.04	0.37	4.78	5.16	0.35	1.15	1.49	—	9,436	9,436	0.20	0.64	0.54	9,631
2028	50.0	49.6	15.2	31.0	0.04	0.33	4.78	5.12	0.31	1.15	1.46	—	9,290	9,290	0.20	0.64	0.49	9,485
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	6.80	6.65	7.09	10.0	0.02	0.26	1.74	2.00	0.24	0.57	0.82	—	2,431	2,431	0.07	0.11	1.62	2,466
2026	36.0	35.7	12.0	24.0	0.03	0.30	3.40	3.70	0.28	0.81	1.09	—	6,889	6,889	0.14	0.47	7.01	7,039
2027	35.8	35.6	11.4	23.2	0.03	0.27	3.40	3.67	0.25	0.81	1.06	—	6,800	6,800	0.14	0.45	6.39	6,945
2028	21.2	21.0	5.99	12.6	0.02	0.13	1.91	2.04	0.12	0.46	0.58	—	3,745	3,745	0.07	0.25	3.24	3,825

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.24	1.21	1.29	1.83	< 0.005	0.05	0.32	0.37	0.04	0.10	0.15	—	402	402	0.01	0.02	0.27	408
2026	6.56	6.51	2.19	4.38	0.01	0.05	0.62	0.67	0.05	0.15	0.20	—	1,140	1,140	0.02	0.08	1.16	1,165
2027	6.53	6.49	2.07	4.23	0.01	0.05	0.62	0.67	0.05	0.15	0.19	—	1,126	1,126	0.02	0.08	1.06	1,150
2028	3.86	3.84	1.09	2.29	< 0.005	0.02	0.35	0.37	0.02	0.08	0.11	—	620	620	0.01	0.04	0.54	633

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	88.3	84.9	44.6	249	0.53	2.21	32.8	35.1	2.18	8.36	10.5	370	72,491	72,860	40.8	2.10	139	74,645
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	80.5	77.2	47.4	185	0.50	2.18	32.8	35.0	2.16	8.36	10.5	370	69,580	69,949	41.1	2.27	24.3	71,676
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	81.6	78.9	34.8	202	0.43	1.24	32.7	33.9	1.22	8.31	9.53	370	55,197	55,566	40.6	2.18	72.3	57,304
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.9	14.4	6.36	36.8	0.08	0.23	5.96	6.19	0.22	1.52	1.74	61.2	9,138	9,200	6.73	0.36	12.0	9,487

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	32.8	30.9	21.9	188	0.39	0.39	32.8	33.2	0.37	8.36	8.73	—	39,664	39,664	1.78	1.81	118	40,367
Area	54.7	53.5	15.7	58.9	0.10	1.26	—	1.26	1.25	—	1.25	0.00	19,470	19,470	0.37	0.04	—	19,490
Energy	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	13,280	13,280	1.51	0.10	—	13,349
Water	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Waste	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Total	88.3	84.9	44.6	249	0.53	2.21	32.8	35.1	2.18	8.36	10.5	370	72,491	72,860	40.8	2.10	139	74,645
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	29.8	27.8	25.3	176	0.36	0.39	32.8	33.2	0.37	8.36	8.73	—	36,893	36,893	2.08	1.98	3.06	37,539
Area	49.9	49.0	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Energy	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	13,280	13,280	1.51	0.10	—	13,349
Water	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Waste	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Total	80.5	77.2	47.4	185	0.50	2.18	32.8	35.0	2.16	8.36	10.5	370	69,580	69,949	41.1	2.27	24.3	71,676
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	29.9	28.0	24.2	171	0.37	0.39	32.7	33.0	0.37	8.31	8.68	—	37,428	37,428	1.95	1.92	51.0	38,100
Area	50.9	50.5	3.67	27.3	0.02	0.29	—	0.29	0.29	—	0.29	0.00	4,412	4,412	0.08	0.01	—	4,416
Energy	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	13,280	13,280	1.51	0.10	—	13,349
Water	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Waste	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Total	81.6	78.9	34.8	202	0.43	1.24	32.7	33.9	1.22	8.31	9.53	370	55,197	55,566	40.6	2.18	72.3	57,304
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.46	5.10	4.42	31.3	0.07	0.07	5.96	6.03	0.07	1.52	1.58	—	6,197	6,197	0.32	0.32	8.45	6,308
Area	9.28	9.22	0.67	4.98	< 0.005	0.05	—	0.05	0.05	—	0.05	0.00	730	730	0.01	< 0.005	—	731

Energy	0.15	0.07	1.26	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	2,199	2,199	0.25	0.02	—	2,210
Water	—	—	—	—	—	—	—	—	—	—	—	9.84	12.7	22.5	1.01	0.02	—	55.0
Waste	—	—	—	—	—	—	—	—	—	—	—	51.4	0.00	51.4	5.13	0.00	—	180
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52
Total	14.9	14.4	6.36	36.8	0.08	0.23	5.96	6.19	0.22	1.52	1.74	61.2	9,138	9,200	6.73	0.36	12.0	9,487

3. Construction Emissions Details

3.1. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	3.25	3.10	0.01	0.14	—	0.14	0.12	—	0.12	—	723	723	0.03	0.01	—	726

Dust From Material Movement	—	—	—	—	—	—	1.01	1.01	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.59	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	120	120	< 0.005	< 0.005	—	120
Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.07	1.26	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	224	224	0.01	0.01	0.87	228
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	0.01	3.79

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.53	1.91	< 0.005	0.06	—	0.06	0.06	—	0.06	—	352	352	0.01	< 0.005	—	353
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.3	58.3	< 0.005	< 0.005	—	58.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.58	1.43	1.48	16.5	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,359	3,359	0.09	0.13	0.37	3,401
Vendor	0.11	0.09	5.01	0.86	0.02	0.04	0.75	0.79	0.04	0.20	0.24	—	3,120	3,120	< 0.005	0.47	0.19	3,261
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.20	2.46	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	504	504	0.01	0.02	0.91	511
Vendor	0.02	0.01	0.73	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	458	458	< 0.005	0.07	0.47	479
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.45	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	83.4	83.4	< 0.005	< 0.005	0.15	84.6
Vendor	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	75.8	75.8	< 0.005	0.01	0.08	79.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.65	1.52	0.98	19.6	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,664	3,664	0.06	0.13	13.2	3,719
Vendor	0.10	0.09	4.43	0.78	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,071	3,071	< 0.005	0.47	6.87	3,219
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	1.52	1.37	1.36	15.4	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,298	3,298	0.08	0.13	0.34	3,340
Vendor	0.09	0.09	4.69	0.82	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,071	3,071	< 0.005	0.47	0.18	3,212
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	0.98	0.87	11.1	0.00	0.00	2.39	2.39	0.00	0.56	0.56	—	2,406	2,406	0.05	0.10	4.07	2,440
Vendor	0.07	0.06	3.31	0.57	0.01	0.01	0.53	0.55	0.01	0.14	0.16	—	2,193	2,193	< 0.005	0.34	2.12	2,296
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.16	2.03	0.00	0.00	0.44	0.44	0.00	0.10	0.10	—	398	398	0.01	0.02	0.67	404
Vendor	0.01	0.01	0.60	0.10	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	363	363	< 0.005	0.06	0.35	380
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.58	1.46	0.97	18.4	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,603	3,603	0.06	0.13	12.0	3,654
Vendor	0.09	0.07	4.18	0.76	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,014	3,014	< 0.005	0.45	6.24	3,155
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.36	1.32	1.24	14.4	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,243	3,243	0.08	0.13	0.31	3,285
Vendor	0.09	0.07	4.41	0.80	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	3,014	3,014	< 0.005	0.45	0.16	3,149
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97	0.95	0.79	10.5	0.00	0.00	2.39	2.39	0.00	0.56	0.56	—	2,366	2,366	0.05	0.10	3.72	2,400
Vendor	0.07	0.05	3.12	0.56	0.01	0.01	0.53	0.55	0.01	0.14	0.16	—	2,153	2,153	< 0.005	0.32	1.92	2,251
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.17	0.14	1.91	0.00	0.00	0.44	0.44	0.00	0.10	0.10	—	392	392	0.01	0.02	0.62	397
Vendor	0.01	0.01	0.57	0.10	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	356	356	< 0.005	0.05	0.32	373
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.55	5.14	0.01	0.12	—	0.12	0.11	—	0.11	—	952	952	0.04	0.01	—	956
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.65	0.94	< 0.005	0.02	—	0.02	0.02	—	0.02	—	158	158	0.01	< 0.005	—	158
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.43	1.40	0.86	17.3	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,532	3,532	0.05	0.13	10.9	3,582
Vendor	0.09	0.07	3.94	0.72	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	2,943	2,943	< 0.005	0.45	5.63	3,084
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.31	1.17	1.12	13.5	0.00	0.00	3.36	3.36	0.00	0.79	0.79	—	3,180	3,180	0.07	0.13	0.28	3,222
Vendor	0.09	0.07	4.16	0.76	0.02	0.02	0.75	0.77	0.02	0.20	0.22	—	2,943	2,943	< 0.005	0.45	0.15	3,079
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.51	0.39	5.48	0.00	0.00	1.33	1.33	0.00	0.31	0.31	—	1,291	1,291	0.03	0.05	1.88	1,309
Vendor	0.04	0.03	1.63	0.29	0.01	0.01	0.30	0.30	0.01	0.08	0.09	—	1,169	1,169	< 0.005	0.18	0.96	1,224
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.09	0.09	0.07	1.00	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	214	214	< 0.005	0.01	0.31	217
Vendor	0.01	0.01	0.30	0.05	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	194	194	< 0.005	0.03	0.16	203
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.57	0.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.57	0.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.23	1.64	< 0.005	0.06	—	0.06	0.05	—	0.05	—	248	248	0.01	< 0.005	—	249

Paving	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.1	41.1	< 0.005	< 0.005	—	41.3
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.94	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	168	168	0.01	0.01	0.65	171
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.74	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	151	151	< 0.005	0.01	0.02	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.4	25.4	< 0.005	< 0.005	0.05	25.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.21	4.21	< 0.005	< 0.005	0.01	4.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.9	15.9	< 0.005	< 0.005	—	16.0
Architectural Coatings	5.61	5.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.64	2.64	< 0.005	< 0.005	—	2.65
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.30	3.30	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	672	672	0.02	0.03	0.07	680
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.40	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	81.9	81.9	< 0.005	< 0.005	0.15	83.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.02	13.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2026) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.61	0.81	< 0.005	0.02	—	0.02	0.02	—	0.02	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	33.6	33.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	6.13	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.30	0.20	3.92	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	733	733	0.01	0.03	2.64	744
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.27	0.27	3.07	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	660	660	0.02	0.03	0.07	668
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.20	0.17	2.23	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	481	481	0.01	0.02	0.81	488
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.41	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	79.7	79.7	< 0.005	< 0.005	0.13	80.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.59	0.80	< 0.005	0.01	—	0.01	0.01	—	0.01	—	95.4	95.4	< 0.005	< 0.005	—	95.7

Architect Coatings	33.6	33.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	6.13	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.19	3.68	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	721	721	0.01	0.03	2.41	731
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.26	0.25	2.87	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	649	649	0.02	0.03	0.06	657
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.19	0.16	2.09	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	473	473	0.01	0.02	0.74	480
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.03	0.03	0.38	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	78.4	78.4	< 0.005	< 0.005	0.12	79.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.34	0.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	56.7	56.7	< 0.005	< 0.005	—	56.9
Architectural Coatings	20.0	20.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Architectural Coatings	3.64	3.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.28	0.17	3.46	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	706	706	0.01	0.03	2.19	716
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.23	0.22	2.70	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	636	636	0.01	0.03	0.06	644
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.17	0.00	0.00	0.28	0.28	0.00	0.07	0.07	—	276	276	0.01	0.01	0.40	280
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	45.7	45.7	< 0.005	< 0.005	0.07	46.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	25.3	23.8	18.2	155	0.33	0.33	27.8	28.1	0.31	7.08	7.39	—	33,489	33,489	1.43	1.50	100	34,070
Fast Food Restaurant with Drive Thru	6.01	5.75	3.06	25.9	0.05	0.05	4.06	4.11	0.05	1.03	1.08	—	4,981	4,981	0.28	0.26	14.6	5,079

Fast Food Restaurant w/o Drive Thru	0.69	0.66	0.35	2.96	0.01	0.01	0.46	0.47	0.01	0.12	0.12	—	568	568	0.03	0.03	1.66	579
High Turnover (Sit Down Restaurant)	0.76	0.72	0.38	3.26	0.01	0.01	0.51	0.52	0.01	0.13	0.14	—	626	626	0.04	0.03	1.83	638
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	32.8	30.9	21.9	188	0.39	0.39	32.8	33.2	0.37	8.36	8.73	—	39,664	39,664	1.78	1.81	118	40,367
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	23.1	21.5	20.9	143	0.31	0.33	27.8	28.1	0.31	7.08	7.39	—	31,139	31,139	1.65	1.63	2.59	31,670
Fast Food Restaurant with Drive Thru	5.39	5.10	3.54	25.9	0.05	0.05	4.06	4.11	0.05	1.03	1.08	—	4,642	4,642	0.34	0.28	0.38	4,734
Fast Food Restaurant w/o Drive Thru	0.61	0.58	0.40	2.95	0.01	0.01	0.46	0.47	0.01	0.12	0.12	—	529	529	0.04	0.03	0.04	540

High Turnover (Sit Down Restaurant)	0.68	0.64	0.44	3.25	0.01	0.01	0.51	0.52	0.01	0.13	0.14	—	583	583	0.04	0.04	0.05	595
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	29.8	27.8	25.3	176	0.36	0.39	32.8	33.2	0.37	8.36	8.73	—	36,893	36,893	2.08	1.98	3.06	37,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.23	3.94	3.66	25.7	0.06	0.06	5.05	5.11	0.06	1.28	1.34	—	5,231	5,231	0.26	0.26	7.15	5,322
Fast Food Restaurant with Drive Thru	0.99	0.94	0.62	4.52	0.01	0.01	0.74	0.75	0.01	0.19	0.20	—	779	779	0.05	0.04	1.04	795
Fast Food Restaurant w/o Drive Thru	0.11	0.11	0.07	0.51	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	88.8	88.8	0.01	0.01	0.12	90.6
High Turnover (Sit Down Restaurant)	0.12	0.12	0.08	0.57	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	97.9	97.9	0.01	0.01	0.13	99.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.46	5.10	4.42	31.3	0.07	0.07	5.96	6.03	0.07	1.52	1.58	—	6,197	6,197	0.32	0.32	8.45	6,308

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,374	4,374	0.71	0.09	—	4,417
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.9	53.9	0.01	< 0.005	—	54.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	16.0	16.0	< 0.005	< 0.005	—	16.2
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,511	4,511	0.73	0.09	—	4,556
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,374	4,374	0.71	0.09	—	4,417
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.9	53.9	0.01	< 0.005	—	54.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	16.0	16.0	< 0.005	< 0.005	—	16.2
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,511	4,511	0.73	0.09	—	4,556
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	724	724	0.12	0.01	—	731

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	8.92	8.92	< 0.005	< 0.005	—	9.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	5.57	5.57	< 0.005	< 0.005	—	5.63
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	5.57	5.57	< 0.005	< 0.005	—	5.63
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.65	2.65	< 0.005	< 0.005	—	2.67
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	747	747	0.12	0.01	—	754

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.79	0.39	6.74	2.87	0.04	0.55	—	0.55	0.55	—	0.55	—	8,558	8,558	0.76	0.02	—	8,582

Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.7	93.7	0.01	< 0.005	—	94.0
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	8,769	8,769	0.78	0.02	—	8,794
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.79	0.39	6.74	2.87	0.04	0.55	—	0.55	0.55	—	0.55	—	8,558	8,558	0.76	0.02	—	8,582
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.7	93.7	0.01	< 0.005	—	94.0

Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.6	58.6	0.01	< 0.005	—	58.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.81	0.40	6.92	3.02	0.04	0.56	—	0.56	0.56	—	0.56	—	8,769	8,769	0.78	0.02	—	8,794
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.14	0.07	1.23	0.52	0.01	0.10	—	0.10	0.10	—	0.10	—	1,417	1,417	0.13	< 0.005	—	1,421
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5	15.5	< 0.005	< 0.005	—	15.6
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.70	9.70	< 0.005	< 0.005	—	9.73
High Turnover (Sit Down Restaurant)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.70	9.70	< 0.005	< 0.005	—	9.73

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.15	0.07	1.26	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	1,452	1,452	0.13	< 0.005	—	1,456

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.78	0.89	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Consumer Products	38.8	38.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.27	9.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.84	4.58	0.50	52.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	140	140	0.01	< 0.005	—	141
Total	54.7	53.5	15.7	58.9	0.10	1.26	—	1.26	1.25	—	1.25	0.00	19,470	19,470	0.37	0.04	—	19,490
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.78	0.89	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349

Consum Products	38.8	38.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.27	9.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	49.9	49.0	15.2	6.48	0.10	1.23	—	1.23	1.23	—	1.23	0.00	19,329	19,329	0.36	0.04	—	19,349
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.07	0.04	0.62	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	0.00	719	719	0.01	< 0.005	—	720
Consumer Products	7.08	7.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.69	1.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.41	0.04	4.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.4	11.4	< 0.005	< 0.005	—	11.5
Total	9.28	9.22	0.67	4.98	< 0.005	0.05	—	0.05	0.05	—	0.05	0.00	730	730	0.01	< 0.005	—	731

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	56.3	60.9	117	5.78	0.14	—	303

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.40	1.30	2.70	0.14	< 0.005	—	7.30
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	12.7	12.7	< 0.005	< 0.005	—	12.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	56.3	60.9	117	5.78	0.14	—	303
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.40	1.30	2.70	0.14	< 0.005	—	7.30

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.87	0.81	1.69	0.09	< 0.005	—	4.56
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	12.7	12.7	< 0.005	< 0.005	—	12.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	59.4	76.6	136	6.10	0.15	—	332
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.32	10.1	19.4	0.96	0.02	—	50.1
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.23	0.22	0.45	0.02	< 0.005	—	1.21
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.14	0.13	0.28	0.01	< 0.005	—	0.76
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.14	0.13	0.28	0.01	< 0.005	—	0.76

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	0.01	< 0.005	< 0.005	—	0.01
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	2.11	2.11	< 0.005	< 0.005	—	2.13
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.84	12.7	22.5	1.01	0.02	—	55.0

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	276	0.00	276	27.6	0.00	—	965
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	9.31	0.00	9.31	0.93	0.00	—	32.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.62	0.00	9.62	0.96	0.00	—	33.7

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.21
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	276	0.00	276	27.6	0.00	—	965
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	9.31	0.00	9.31	0.93	0.00	—	32.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.62	0.00	9.62	0.96	0.00	—	33.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.21
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,085

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	45.6	0.00	45.6	4.56	0.00	—	160
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.47	0.00	2.47	0.25	0.00	—	8.63
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.54	0.00	1.54	0.15	0.00	—	5.39
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.59	0.00	1.59	0.16	0.00	—	5.57
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.10	0.00	0.10	0.01	0.00	—	0.37
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	51.4	0.00	51.4	5.13	0.00	—	180

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.8	12.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.75	3.75
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.8	12.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.75	3.75

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34	2.34
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.12	2.12
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62	0.62
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Grading	Grading	6/2/2025	7/25/2025	5.00	40.0	—
Building Construction	Building Construction	10/18/2025	7/21/2028	5.00	720	—
Paving	Paving	7/26/2025	10/17/2025	5.00	60.0	—
Architectural Coating	Architectural Coating	11/1/2025	8/4/2028	5.00	720	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	333	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	99.0	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	66.5	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	3,624,953	1,208,318	8,100	2,700	34,124

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Grading	—	—	120	0.00	—
Paving	0.00	0.00	0.00	0.00	23.2

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	1.65	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Fast Food Restaurant w/o Drive Thru	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Parking Lot	0.75	100%
City Park	0.00	0%
Other Asphalt Surfaces	11.1	100%
Other Asphalt Surfaces	1.21	100%
Single Family Housing	8.46	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	1,386	1,386	1,386	505,890	11,685	11,685	11,685	4,265,138
Fast Food Restaurant with Drive Thru	1,255	1,255	1,255	458,139	5,691	5,691	5,691	2,077,338
Fast Food Restaurant w/o Drive Thru	143	143	143	52,215	649	649	649	236,759
High Turnover (Sit Down Restaurant)	158	158	158	57,581	715	715	715	261,087
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Single Family Housing	3,241	3,241	3,241	1,182,950	27,324	27,324	27,324	9,973,406

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	150
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Wood Fireplaces	0
Gas Fireplaces	768
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
3624952.5	1,208,318	8,100	2,700	34,124

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	1,278,856	204	0.0330	0.0040	4,363,504
Fast Food Restaurant with Drive Thru	96,369	204	0.0330	0.0040	292,442
Fast Food Restaurant w/o Drive Thru	60,230	204	0.0330	0.0040	182,776
High Turnover (Sit Down Restaurant)	60,230	204	0.0330	0.0040	182,776
Parking Lot	28,619	204	0.0330	0.0040	0.00
City Park	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Single Family Housing	6,547,745	204	0.0330	0.0040	22,341,139

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	4,797,743	1,723,993
Fast Food Restaurant with Drive Thru	728,481	29,706
Fast Food Restaurant w/o Drive Thru	455,301	18,330
High Turnover (Sit Down Restaurant)	455,301	18,330
Parking Lot	0.00	47,402
City Park	0.00	14,128,146
Other Asphalt Surfaces	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
Single Family Housing	24,564,442	8,826,996

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	83.6	—
Fast Food Restaurant with Drive Thru	27.6	—
Fast Food Restaurant w/o Drive Thru	17.3	—
High Turnover (Sit Down Restaurant)	17.8	—
Parking Lot	0.00	—
City Park	1.17	—
Other Asphalt Surfaces	0.00	—
Other Asphalt Surfaces	0.00	—
Single Family Housing	428	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

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5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Land Use	Lot acreage and square footage adjusted based on Creekside SP land use summary.
Construction: Construction Phases	Phase timing based on applicant provided information. Based on typical construction practices, architectural coating assumed to start two weeks after the start of building construction and last for the same number of days
Construction: Architectural Coatings	Based on EDCAQMD Rule 215.
Operations: Vehicle Data	Trip rates and VMT adjusted based on project-specific traffic report.
Operations: Hearths	All units would have natural gas fireplaces per applicant’s AQ questionnaire.
Operations: Architectural Coatings	Based on EDCAQMD Rule 215.
Operations: Road Dust	All roads in project vicinity are paved
Construction: On-Road Fugitive Dust	All roads in project area are paved.

Reduced Impact Alternative Technical Memorandum (December 2024)

RANEY
PLANNING & MANAGEMENT, INC.

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1501 SPORTS DRIVE, SUITE A
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December 5, 2024

To: Anthony Gon, Project Manager
Winn Communities
555 University Avenue, Suite 180
Sacramento, CA 95825

Subject: Creekside Village Specific Plan Project – Reduced Impact Alternative Technical Memorandum

Dear Mr. Gon:

Raney Planning & Management, Inc. (Raney) has prepared the following technical memorandum to present the emissions that would result from the Reduced Impact Alternative of the Creekside Village Specific Plan Project.

It is our understanding that under the Reduced Impact Alternative, the proposed project would be revised to include 150 single-family residences, 613 age-restricted single-family residences, and 14.1 acres of parkland. In addition, the portion of the site originally designated for neighborhood commercial uses would no longer be developed with such uses, and instead, would be developed with a 1.58-acre park. The remainder of the project site would still be proposed for open space and roadway infrastructure improvements. However, the Reduced Impact Alternative would result in an overall increase in disturbance of 1.74 acres as compared to the proposed project.

In addition, it should be noted that due to a reduction in the unit count, the off-site intersection improvements at Latrobe Road and Town Center Boulevard and at the Avanti Drive/Latrobe Road intersection would not be required under the Reduced Impact Alternative, and while the Royal Oaks/Latrobe Road intersection would require signalization, road widening at the intersection would not be required under the Reduced Impact Alternative. All other aspects of the project would remain the same.

To account for the revisions to the proposed project that would occur as a result of the Reduced Impact Alternative, construction and operational emissions associated with the Reduced Impact Alternative were estimated using the California Emissions Estimator Model (CalEEMod) version 2022.1.1.29. The results of the updated modeling are presented below.

Construction Emissions

The following discussions include an analysis of the updated criteria pollutant emissions, health risks, and greenhouse gas (GHG) emissions that would occur as a result of construction of the Reduced Impact Alternative.

Criteria Pollutant Emissions

The maximum unmitigated construction criteria pollutant emissions for the Reduced Impact Alternative, as compared to the proposed project, are presented in Table 4. As shown in the table, the Reduced Impact Alternative would result in a slight decrease in construction-related ROG emissions, and the same amount of construction-related NO_X emissions as compared to the proposed project. Similar to the proposed project, ROG and NO_x emissions would be below the applicable EDCAQMD thresholds of significance. Therefore, the Reduced Impact Alternative

would result in a ***less-than-significant*** impact associated with construction-related criteria pollutant emissions.

Table 1
Maximum Unmitigated Construction Emissions (lbs/day)

	ROG	NO_X
Proposed Project Emissions	50.51	33.29
Reduced Impact Alternative Emissions	50.21	33.29
Difference	*-0.30*	*0.00*
EDCAQMD Significance Threshold	**82.0**	**82.0**
Exceeds Threshold?	**NO**	**NO**

Source: CalEEMod, November 2024 (see Attachment A).

Construction Health Risk Assessment

Using similar methodology as described in the April 2024 Creekside Village Air Quality and Greenhouse Gas Impact Analysis, the cancer risk and non-cancer hazard indices associated with the Reduced Impact Alternative were estimated for the maximally-exposed receptor. The cancer risk and non-cancer hazard indices associated with the Reduced Impact Alternative, as compared to the proposed project, are presented in Table 2.

Table 2
Maximum Unmitigated Cancer Risk and Hazard Index Associated with Project Construction DPM

	Cancer Risk (per million persons)	Acute Hazard Index	Chronic Hazard Index
Proposed Project Construction DPM Health Risks	2.06	0.00	0.001
Reduced Impact Alternative Construction DPM Health Risks	1.93	0.00	0.001
Difference	*-0.13*	*0.00*	*0.00*
Thresholds of Significance	**10**	**1.0**	**1.0**
Exceed Thresholds?	**NO**	**NO**	**NO**

Source: AERMOD and HARP 2 RAST, November 2024 (see Attachment B).

As shown in Table 2, the Reduced Impact Alternative would result in a slight decrease in construction-related cancer risks, and the same amount of construction-related chronic and acute hazard index risks as compared to the proposed project. Similar to the proposed project, construction of the Reduced Impact Alternative would not result in any health impacts in excess of the EDCAQMD's standards. Therefore, the Reduced Impact Alternative would result in a ***less-than-significant*** impact.

Greenhouse Gas Emissions

The maximum unmitigated construction GHG emissions for the Reduced Impact Alternative, as compared to the proposed project, are presented in Table 3. As shown in the table, maximum GHG emissions related to construction of the proposed project would be below the applicable threshold of significance. Therefore, similar to the proposed project, construction of the Reduced Impact Alternative would not be considered to result in a cumulatively considerable contribution to global climate change during construction activities, and a ***less-than-significant*** impact would occur.

Table 3 Maximum Unmitigated Construction GHG Emissions	
	GHG Emissions ($MTCO_2e$/yr)
Proposed Project Emissions	997.33
Reduced Impact Alternative Emissions	846.33
Difference	-151.00
SMAQMD Threshold	**1,100.00**
Exceeds Threshold?	**NO**
Source: CalEEMod, November 2024 (see Appendix A).	

Operational Emissions

The following discussions include an analysis of the updated operational criteria pollutant emissions and GHG emissions that would occur as a result of the Reduced Impact Alternative.

Criteria Pollutant Emissions

The maximum unmitigated operational criteria pollutant emissions for the Reduced Impact Alternative, as compared to the proposed project, are presented in Table 4.

Table 4 Maximum Unmitigated Operational Emissions (lbs/day)		
	ROG	**NO_X**
Proposed Project Emissions	100	51.2
Reduced Impact Alternative Emissions	62.6	26.9
Reduction	*-37.4*	*-24.3*
EDCAQMD Significance Threshold	**82.0**	**82.0**
Exceeds Threshold?	**NO**	**NO**
Source: CalEEMod, November 2024 (see Attachment A).		

As shown in the table, the Reduced Impact Alternative would result in a reduction in operational ROG and NO_X emissions as compared to the proposed project. In addition, ROG and NO_x emissions would be below the applicable EDCAQMD thresholds of significance. Therefore, Mitigation Measure AQ-1 included in the April 2024 Creekside Village Air Quality and Greenhouse Gas Impact Analysis (carried forward as Mitigation Measures AQ-1 through AQ-4 included in the Air Quality Chapter of the Draft EIR prepared for the proposed project) would not be required under the Reduced Impact Alternative and the Reduced Impact Alternative would result in a ***less-than-significant*** impact associated with operational criteria pollutant emissions.

Greenhouse Gas Emissions

Maximum unmitigated operational GHG emissions associated with the Reduced Impact Alternative would be 4,671 metric tons of carbon dioxide equivalents per year ($MTCO_2e$/yr), which is a reduction of 5,090 $MTCO_2e$/yr compared to the 9,761 $MTCO_2e$/yr associated with operation of the proposed project. Impacts related to operational GHG emissions associated with the proposed project were analyzed within the April 2024 Creekside Village Air Quality and Greenhouse Gas Impact Analysis using the Sacramento Metropolitan Air Quality Management District's (SMAQMD's) qualitative best management practice (BMP)-based thresholds of significance. Given the similarities of the proposed project and the Reduced Impact Alternative, consistency with SMAQMD BMP-1 and BMP-2 cannot be ensured at this time. As such, even with the reduction in GHG emissions, because the project analysis is based on SMAQMD's qualitative BMP-based thresholds of significance, impacts associated with operational GHG emissions would remain the same as presented in the April 2024 Creekside Village Air Quality and

Greenhouse Gas Impact Analysis, and Mitigation Measure GHG-1 included therein (carried forward as Mitigation Measures GHG-1 and GHG-2 included in the Greenhouse Gas Emissions Chapter of the Draft EIR prepared for the proposed project) would still be required. Nonetheless, similar to the proposed project, with implementation of the aforementioned mitigation measures, the Reduced Impact Alternative would result in a ***less-than-significant*** impact related to operational GHG emissions.

Conclusion

Based on the above, the Reduced Impact Alternative would result in similar or reduced impacts related to air quality and GHG emissions as compared to the proposed project. Under the Reduced Impact Alternative, all impacts related to air quality and GHG emissions would be ***less than significant***.

If you have any questions regarding the contents of this document, please do not hesitate to contact me at (916) 372-6100, or via email at rods@raneymanagement.com.

Best Regards,

Rod Stinson
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RANEY
PLANNING & MANAGEMENT, INC.

Attachment A
CalEEMod Results

Creekside Village Specific Plan - Reduced Impacts Alternative Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Creekside Village Specific Plan - Reduced Impacts Alternative
Construction Start Date	6/2/2025
Operational Year	2028
Lead Agency	El Dorado County
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.61348203944053, -121.05086586387135
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	470
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	150	Dwelling Unit	21.3	292,500	125,602	—	381	—

Single Family Housing	613	Dwelling Unit	117	1,195,350	689,398	—	1,557	Age-Restricted Units
City Park	14.1	Acre	14.1	0.00	613,760	613,760	—	—
Other Asphalt Surfaces	11.1	Acre	11.1	0.00	0.00	—	—	—
Other Asphalt Surfaces	39.3	1000sqft	0.90	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	50.1	49.8	29.7	34.2	0.06	1.23	9.41	10.6	1.14	3.70	4.84	—	8,690	8,690	0.28	0.54	18.7	8,875
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	50.2	49.8	16.9	31.2	0.04	0.49	3.95	4.44	0.45	0.95	1.40	—	8,428	8,428	0.19	0.54	0.53	8,595
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	35.7	35.5	11.2	21.6	0.03	0.30	2.80	3.10	0.28	0.67	0.95	—	5,998	5,998	0.13	0.39	5.78	6,123
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.52	6.47	2.05	3.94	0.01	0.05	0.51	0.57	0.05	0.12	0.17	—	993	993	0.02	0.06	0.96	1,014

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.91	3.29	29.7	29.6	0.06	1.23	9.41	10.6	1.14	3.70	4.84	—	6,823	6,823	0.28	0.06	0.87	6,849
2026	50.1	49.8	15.3	34.2	0.04	0.42	3.95	4.37	0.39	0.95	1.33	—	8,690	8,690	0.16	0.54	18.7	8,875
2027	50.0	49.7	14.6	32.9	0.04	0.37	3.95	4.32	0.34	0.95	1.29	—	8,582	8,582	0.16	0.52	17.1	8,758
2028	49.8	49.6	13.8	31.8	0.04	0.33	3.95	4.28	0.31	0.95	1.25	—	8,454	8,454	0.16	0.52	15.5	8,629
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	50.2	49.8	16.9	31.2	0.04	0.49	3.95	4.44	0.45	0.95	1.40	—	8,428	8,428	0.19	0.54	0.53	8,595
2026	50.0	49.6	15.9	30.0	0.04	0.42	3.95	4.37	0.39	0.95	1.33	—	8,327	8,327	0.19	0.54	0.49	8,494
2027	49.8	49.5	15.1	29.0	0.04	0.37	3.95	4.32	0.34	0.95	1.29	—	8,225	8,225	0.19	0.53	0.44	8,388
2028	49.7	49.3	14.3	28.0	0.04	0.33	3.95	4.28	0.31	0.95	1.25	—	8,106	8,106	0.18	0.53	0.40	8,268
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	6.75	6.59	6.92	9.49	0.01	0.26	1.62	1.88	0.24	0.55	0.79	—	2,248	2,248	0.07	0.09	1.35	2,278
2026	35.7	35.5	11.2	21.6	0.03	0.30	2.80	3.10	0.28	0.67	0.95	—	5,998	5,998	0.13	0.39	5.78	6,123
2027	35.6	35.4	10.6	20.9	0.03	0.27	2.80	3.07	0.24	0.67	0.92	—	5,925	5,925	0.13	0.38	5.27	6,046
2028	21.0	20.9	5.62	11.4	0.02	0.13	1.57	1.71	0.12	0.38	0.50	—	3,265	3,265	0.07	0.21	2.67	3,332
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.23	1.20	1.26	1.73	< 0.005	0.05	0.29	0.34	0.04	0.10	0.14	—	372	372	0.01	0.01	0.22	377
2026	6.52	6.47	2.05	3.94	0.01	0.05	0.51	0.57	0.05	0.12	0.17	—	993	993	0.02	0.06	0.96	1,014
2027	6.49	6.46	1.94	3.81	0.01	0.05	0.51	0.56	0.04	0.12	0.17	—	981	981	0.02	0.06	0.87	1,001
2028	3.84	3.82	1.03	2.07	< 0.005	0.02	0.29	0.31	0.02	0.07	0.09	—	541	541	0.01	0.03	0.44	552

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	64.6	62.6	26.9	121	0.25	1.63	10.6	12.3	1.62	2.71	4.33	277	40,112	40,389	30.1	0.92	48.9	41,464
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	58.9	57.0	27.8	78.3	0.24	1.61	10.6	12.3	1.60	2.71	4.31	277	39,108	39,384	30.2	0.99	11.6	40,447
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	59.8	58.4	17.8	92.2	0.18	0.83	10.6	11.4	0.82	2.69	3.51	277	26,878	27,154	29.9	0.94	27.2	28,210
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.9	10.7	3.24	16.8	0.03	0.15	1.93	2.08	0.15	0.49	0.64	45.8	4,450	4,496	4.96	0.16	4.50	4,671

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.0	16.3	8.25	69.7	0.13	0.13	10.6	10.8	0.13	2.71	2.84	—	13,116	13,116	0.78	0.69	38.3	13,380
Area	47.0	46.0	13.1	48.7	0.08	1.04	—	1.04	1.04	—	1.04	0.00	16,181	16,181	0.31	0.03	—	16,198
Energy	0.66	0.33	5.60	2.38	0.04	0.45	—	0.45	0.45	—	0.45	—	10,749	10,749	1.22	0.08	—	10,805
Water	—	—	—	—	—	—	—	—	—	—	—	46.8	65.5	112	4.81	0.12	—	267
Waste	—	—	—	—	—	—	—	—	—	—	—	230	0.00	230	23.0	0.00	—	804
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	10.7

Total	64.6	62.6	26.9	121	0.25	1.63	10.6	12.3	1.62	2.71	4.33	277	40,112	40,389	30.1	0.92	48.9	41,464
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.2	14.4	9.54	70.5	0.12	0.13	10.6	10.8	0.13	2.71	2.84	—	12,228	12,228	0.96	0.76	0.99	12,479
Area	43.0	42.2	12.7	5.39	0.08	1.02	—	1.02	1.02	—	1.02	0.00	16,066	16,066	0.30	0.03	—	16,082
Energy	0.66	0.33	5.60	2.38	0.04	0.45	—	0.45	0.45	—	0.45	—	10,749	10,749	1.22	0.08	—	10,805
Water	—	—	—	—	—	—	—	—	—	—	—	46.8	65.5	112	4.81	0.12	—	267
Waste	—	—	—	—	—	—	—	—	—	—	—	230	0.00	230	23.0	0.00	—	804
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	10.7
Total	58.9	57.0	27.8	78.3	0.24	1.61	10.6	12.3	1.60	2.71	4.31	277	39,108	39,384	30.2	0.99	11.6	40,447
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.3	14.6	9.11	67.2	0.12	0.13	10.6	10.7	0.13	2.69	2.82	—	12,397	12,397	0.88	0.73	16.5	12,654
Area	43.8	43.5	3.05	22.6	0.02	0.24	—	0.24	0.24	—	0.24	0.00	3,666	3,666	0.07	0.01	—	3,670
Energy	0.66	0.33	5.60	2.38	0.04	0.45	—	0.45	0.45	—	0.45	—	10,749	10,749	1.22	0.08	—	10,805
Water	—	—	—	—	—	—	—	—	—	—	—	46.8	65.5	112	4.81	0.12	—	267
Waste	—	—	—	—	—	—	—	—	—	—	—	230	0.00	230	23.0	0.00	—	804
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	10.7
Total	59.8	58.4	17.8	92.2	0.18	0.83	10.6	11.4	0.82	2.69	3.51	277	26,878	27,154	29.9	0.94	27.2	28,210
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.79	2.66	1.66	12.3	0.02	0.02	1.93	1.96	0.02	0.49	0.51	—	2,052	2,052	0.15	0.12	2.74	2,095
Area	7.99	7.94	0.56	4.12	< 0.005	0.04	—	0.04	0.04	—	0.04	0.00	607	607	0.01	< 0.005	—	608
Energy	0.12	0.06	1.02	0.44	0.01	0.08	—	0.08	0.08	—	0.08	—	1,780	1,780	0.20	0.01	—	1,789
Water	—	—	—	—	—	—	—	—	—	—	—	7.74	10.9	18.6	0.80	0.02	—	44.2
Waste	—	—	—	—	—	—	—	—	—	—	—	38.0	0.00	38.0	3.80	0.00	—	133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.76	1.76
Total	10.9	10.7	3.24	16.8	0.03	0.15	1.93	2.08	0.15	0.49	0.64	45.8	4,450	4,496	4.96	0.16	4.50	4,671

3. Construction Emissions Details

3.1. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	3.25	3.10	0.01	0.14	—	0.14	0.12	—	0.12	—	723	723	0.03	0.01	—	726
Dust From Material Movement	—	—	—	—	—	—	1.01	1.01	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.08	0.06	0.59	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	120	120	< 0.005	< 0.005	—	120
Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.07	1.26	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	224	224	0.01	0.01	0.87	228
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	0.01	3.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Building Construction (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.53	1.91	< 0.005	0.06	—	0.06	0.06	—	0.06	—	352	352	0.01	< 0.005	—	353
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.3	58.3	< 0.005	< 0.005	—	58.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.30	1.18	1.22	13.6	0.00	0.00	2.78	2.78	0.00	0.65	0.65	—	2,772	2,772	0.07	0.11	0.31	2,808
Vendor	0.09	0.07	4.13	0.71	0.02	0.03	0.62	0.65	0.03	0.17	0.20	—	2,570	2,570	< 0.005	0.39	0.16	2,686

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.16	2.03	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	416	416	0.01	0.02	0.75	422
Vendor	0.01	0.01	0.60	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	377	377	< 0.005	0.06	0.39	395
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.37	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	68.8	68.8	< 0.005	< 0.005	0.12	69.8
Vendor	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	62.4	62.4	< 0.005	0.01	0.06	65.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.36	1.25	0.81	16.2	0.00	0.00	2.78	2.78	0.00	0.65	0.65	—	3,024	3,024	0.05	0.11	10.9	3,070
Vendor	0.08	0.07	3.65	0.64	0.02	0.02	0.62	0.63	0.02	0.17	0.18	—	2,529	2,529	< 0.005	0.39	5.66	2,652
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.25	1.13	1.12	12.7	0.00	0.00	2.78	2.78	0.00	0.65	0.65	—	2,722	2,722	0.07	0.11	0.28	2,757
Vendor	0.08	0.07	3.86	0.67	0.02	0.02	0.62	0.63	0.02	0.17	0.18	—	2,529	2,529	< 0.005	0.39	0.15	2,646
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.81	0.72	9.20	0.00	0.00	1.97	1.97	0.00	0.46	0.46	—	1,986	1,986	0.04	0.08	3.36	2,014
Vendor	0.06	0.05	2.73	0.47	0.01	0.01	0.44	0.45	0.01	0.12	0.13	—	1,807	1,807	< 0.005	0.28	1.75	1,892
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.16	0.15	0.13	1.68	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	329	329	0.01	0.01	0.56	334
Vendor	0.01	0.01	0.50	0.09	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	299	299	< 0.005	0.05	0.29	313
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.31	1.20	0.80	15.2	0.00	0.00	2.78	2.78	0.00	0.65	0.65	—	2,974	2,974	0.05	0.10	9.94	3,016
Vendor	0.08	0.06	3.44	0.63	0.02	0.02	0.62	0.63	0.02	0.17	0.18	—	2,482	2,482	< 0.005	0.37	5.14	2,599
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.12	1.09	1.02	11.9	0.00	0.00	2.78	2.78	0.00	0.65	0.65	—	2,677	2,677	0.07	0.11	0.26	2,712
Vendor	0.08	0.06	3.64	0.66	0.02	0.02	0.62	0.63	0.02	0.17	0.18	—	2,482	2,482	< 0.005	0.37	0.13	2,594
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.80	0.78	0.65	8.64	0.00	0.00	1.97	1.97	0.00	0.46	0.46	—	1,954	1,954	0.04	0.08	3.07	1,981
Vendor	0.06	0.04	2.57	0.46	0.01	0.01	0.44	0.45	0.01	0.12	0.13	—	1,773	1,773	< 0.005	0.27	1.59	1,855
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.12	1.58	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	323	323	0.01	0.01	0.51	328
Vendor	0.01	0.01	0.47	0.08	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	294	294	< 0.005	0.04	0.26	307
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.55	5.14	0.01	0.12	—	0.12	0.11	—	0.11	—	952	952	0.04	0.01	—	956
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.65	0.94	< 0.005	0.02	—	0.02	0.02	—	0.02	—	158	158	0.01	< 0.005	—	158
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.18	1.15	0.71	14.3	0.00	0.00	2.78	2.78	0.00	0.65	0.65	—	2,916	2,916	0.04	0.10	9.03	2,957
Vendor	0.08	0.06	3.25	0.60	0.02	0.02	0.62	0.63	0.02	0.17	0.18	—	2,424	2,424	< 0.005	0.37	4.64	2,541
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	0.96	0.92	11.1	0.00	0.00	2.78	2.78	0.00	0.65	0.65	—	2,625	2,625	0.06	0.11	0.23	2,660
Vendor	0.08	0.06	3.43	0.63	0.02	0.02	0.62	0.63	0.02	0.17	0.18	—	2,424	2,424	< 0.005	0.37	0.12	2,536
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.42	0.32	4.53	0.00	0.00	1.10	1.10	0.00	0.26	0.26	—	1,065	1,065	0.02	0.04	1.55	1,081
Vendor	0.03	0.02	1.34	0.24	0.01	0.01	0.24	0.25	0.01	0.07	0.07	—	963	963	< 0.005	0.15	0.79	1,008
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.06	0.83	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	176	176	< 0.005	0.01	0.26	179
Vendor	0.01	< 0.005	0.25	0.04	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	159	159	< 0.005	0.02	0.13	167
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

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

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

Off-Road	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.52	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.52	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.23	1.64	< 0.005	0.06	—	0.06	0.05	—	0.05	—	248	248	0.01	< 0.005	—	249
Paving	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.1	41.1	< 0.005	< 0.005	—	41.3
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.94	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	168	168	0.01	0.01	0.65	171
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.74	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	151	151	< 0.005	0.01	0.02	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.4	25.4	< 0.005	< 0.005	0.05	25.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.21	4.21	< 0.005	< 0.005	0.01	4.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2025) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.9	15.9	< 0.005	< 0.005	—	16.0
Architectural Coatings	5.61	5.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.64	2.64	< 0.005	< 0.005	—	2.65
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.24	0.24	2.72	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	554	554	0.01	0.02	0.06	562
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.33	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	67.6	67.6	< 0.005	< 0.005	0.12	68.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.02	11.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134

Architectural Coating	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.61	0.81	< 0.005	0.02	—	0.02	0.02	—	0.02	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	33.6	33.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8

Architectural Coatings	6.13	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.16	3.23	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	605	605	0.01	0.02	2.18	614
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.23	0.22	2.54	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	544	544	0.01	0.02	0.06	551
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.14	1.84	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	397	397	0.01	0.02	0.67	403
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.34	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	65.8	65.8	< 0.005	< 0.005	0.11	66.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.59	0.80	< 0.005	0.01	—	0.01	0.01	—	0.01	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	33.6	33.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	6.13	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.24	0.16	3.03	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	595	595	0.01	0.02	1.99	603
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.22	0.20	2.37	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	535	535	0.01	0.02	0.05	542
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.13	1.73	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	391	391	0.01	0.02	0.61	396
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.32	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	64.7	64.7	< 0.005	< 0.005	0.10	65.6

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.06	0.05	0.34	0.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	56.7	56.7	< 0.005	< 0.005	—	56.9
Architectural Coatings	20.0	20.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Architectural Coatings	3.64	3.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.23	0.14	2.85	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	583	583	0.01	0.02	1.81	591
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.19	0.18	2.23	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	525	525	0.01	0.02	0.05	532
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	0.97	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	228	228	< 0.005	0.01	0.33	231

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	37.7	37.7	< 0.005	< 0.005	0.05	38.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	17.0	16.3	8.25	69.7	0.13	0.13	10.6	10.8	0.13	2.71	2.84	—	13,116	13,116	0.78	0.69	38.3	13,380
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	17.0	16.3	8.25	69.7	0.13	0.13	10.6	10.8	0.13	2.71	2.84	—	13,116	13,116	0.78	0.69	38.3	13,380
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	15.2	14.4	9.54	70.5	0.12	0.13	10.6	10.8	0.13	2.71	2.84	—	12,228	12,228	0.96	0.76	0.99	12,479

City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	15.2	14.4	9.54	70.5	0.12	0.13	10.6	10.8	0.13	2.71	2.84	—	12,228	12,228	0.96	0.76	0.99	12,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	2.79	2.66	1.66	12.3	0.02	0.02	1.93	1.96	0.02	0.49	0.51	—	2,052	2,052	0.15	0.12	2.74	2,095
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.79	2.66	1.66	12.3	0.02	0.02	1.93	1.96	0.02	0.49	0.51	—	2,052	2,052	0.15	0.12	2.74	2,095

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,635	3,635	0.59	0.07	—	3,671
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,635	3,635	0.59	0.07	—	3,671
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,635	3,635	0.59	0.07	—	3,671
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,635	3,635	0.59	0.07	—	3,671
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	602	602	0.10	0.01	—	608
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	602	602	0.10	0.01	—	608

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.66	0.33	5.60	2.38	0.04	0.45	—	0.45	0.45	—	0.45	—	7,113	7,113	0.63	0.01	—	7,133

City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.66	0.33	5.60	2.38	0.04	0.45	—	0.45	0.45	—	0.45	—	7,113	7,113	0.63	0.01	—	7,133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.66	0.33	5.60	2.38	0.04	0.45	—	0.45	0.45	—	0.45	—	7,113	7,113	0.63	0.01	—	7,133
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.66	0.33	5.60	2.38	0.04	0.45	—	0.45	0.45	—	0.45	—	7,113	7,113	0.63	0.01	—	7,133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.12	0.06	1.02	0.44	0.01	0.08	—	0.08	0.08	—	0.08	—	1,178	1,178	0.10	< 0.005	—	1,181
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.12	0.06	1.02	0.44	0.01	0.08	—	0.08	0.08	—	0.08	—	1,178	1,178	0.10	< 0.005	—	1,181

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.48	0.74	12.7	5.39	0.08	1.02	—	1.02	1.02	—	1.02	0.00	16,066	16,066	0.30	0.03	—	16,082
Consumer Products	32.2	32.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.27	9.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.98	3.77	0.41	43.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	116	116	< 0.005	< 0.005	—	116
Total	47.0	46.0	13.1	48.7	0.08	1.04	—	1.04	1.04	—	1.04	0.00	16,181	16,181	0.31	0.03	—	16,198
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.48	0.74	12.7	5.39	0.08	1.02	—	1.02	1.02	—	1.02	0.00	16,066	16,066	0.30	0.03	—	16,082
Consumer Products	32.2	32.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.27	9.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	43.0	42.2	12.7	5.39	0.08	1.02	—	1.02	1.02	—	1.02	0.00	16,066	16,066	0.30	0.03	—	16,082
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.06	0.03	0.52	0.22	< 0.005	0.04	—	0.04	0.04	—	0.04	0.00	598	598	0.01	< 0.005	—	598
Consumer Products	5.88	5.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	1.69	1.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.36	0.34	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.45	9.45	< 0.005	< 0.005	—	9.48
Total	7.99	7.94	0.56	4.12	< 0.005	0.04	—	0.04	0.04	—	0.04	0.00	607	607	0.01	< 0.005	—	608

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	46.8	52.3	99.1	4.80	0.11	—	253
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	13.2	13.2	< 0.005	< 0.005	—	13.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	46.8	65.5	112	4.81	0.12	—	267
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	46.8	52.3	99.1	4.80	0.11	—	253
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	13.2	13.2	< 0.005	< 0.005	—	13.3

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	46.8	65.5	112	4.81	0.12	—	267
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	7.74	8.67	16.4	0.80	0.02	—	42.0
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	2.18	2.18	< 0.005	< 0.005	—	2.21
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.74	10.9	18.6	0.80	0.02	—	44.2

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	229	0.00	229	22.9	0.00	—	802
City Park	—	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.07	0.00	—	2.28
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	230	0.00	230	23.0	0.00	—	804

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	229	0.00	229	22.9	0.00	—	802
City Park	—	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.07	0.00	—	2.28
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	230	0.00	230	23.0	0.00	—	804
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	37.9	0.00	37.9	3.79	0.00	—	133
City Park	—	—	—	—	—	—	—	—	—	—	—	0.11	0.00	0.11	0.01	0.00	—	0.38
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	38.0	0.00	38.0	3.80	0.00	—	133

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	10.7

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	10.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	10.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	10.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.76	1.76
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.76	1.76

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Grading	Grading	6/2/2025	7/25/2025	5.00	40.0	—
Building Construction	Building Construction	10/18/2025	7/21/2028	5.00	720	—
Paving	Paving	7/26/2025	10/17/2025	5.00	60.0	—
Architectural Coating	Architectural Coating	11/1/2025	8/4/2028	5.00	720	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	275	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	81.6	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	54.9	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	3,624,953	1,208,318	8,100	2,700	34,124

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Grading	—	—	120	0.00	—
Paving	0.00	0.00	0.00	0.00	20.4

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	1.65	0%
Single Family Housing	6.75	0%
City Park	0.00	0%
Other Asphalt Surfaces	11.1	100%
Other Asphalt Surfaces	0.90	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	1,436	1,436	1,436	523,958	5,954	5,954	5,954	2,173,220
Single Family Housing	2,164	2,164	2,164	789,820	8,975	8,975	8,975	3,275,938
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	150
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Wood Fireplaces	0
Gas Fireplaces	613
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
3624952.5	1,208,318	8,100	2,700	34,124

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	1,278,856	204	0.0330	0.0040	4,363,504
Single Family Housing	5,226,260	204	0.0330	0.0040	17,832,186
City Park	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	4,797,743	1,647,470
Single Family Housing	19,606,774	9,042,554
City Park	0.00	14,637,165
Other Asphalt Surfaces	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	83.6	—
Single Family Housing	342	—
City Park	1.21	—
Other Asphalt Surfaces	0.00	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Land Use	Lot acreage and square footage adjusted based on land use summary and tentative map provided by project applicant.
Construction: Construction Phases	Phase timing based on applicant provided information. Based on typical construction practices, architectural coating assumed to start two weeks after the start of building construction and last for the same number of days
Construction: Architectural Coatings	Based on EDCAQMD Rule 215.
Operations: Vehicle Data	Trip rates and VMT adjusted based on project-specific traffic report.
Operations: Hearths	All units would have natural gas fireplaces per applicant's AQ questionnaire.
Operations: Architectural Coatings	Based on EDCAQMD Rule 215.
Operations: Road Dust	All roads in project vicinity are paved
Construction: On-Road Fugitive Dust	All roads in project area are paved.

Attachment B
AERMOD and HARP Results

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	Creekside Village SP - Reduced Impact Alternative
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	OTHER
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	T
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	I:\Projects\Active\El Dorado County\Creekside Village SP AQ-GHG\2023 project\HRA\AERMOD\SACEXE~1.SFC
ME	PROFFILE	Profile met file	I:\Projects\Active\El Dorado County\Creekside Village SP AQ-GHG\2023 project\HRA\AERMOD\SACEXE~1.PFL
ME	SURFDATA	Surf met data info.	23232 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	7.3
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

OU	DAYTABLE	Print summary opt.	

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
2RPS3001	VOLUME	on-site	669013.2	4275254.6	0	0.00000726	(g/s)	5
2RPS3002	VOLUME	on-site	669076.8	4275254.6	0	0.00000726	(g/s)	5
2RPS3003	VOLUME	on-site	669140.4	4275254.6	0	0.00000726	(g/s)	5
2RPS3004	VOLUME	on-site	669204.0	4275254.6	0	0.00000726	(g/s)	5
2RPS3005	VOLUME	on-site	669267.7	4275254.6	0	0.00000726	(g/s)	5
2RPS3006	VOLUME	on-site	669331.3	4275254.6	0	0.00000726	(g/s)	5
2RPS3007	VOLUME	on-site	669394.9	4275254.6	0	0.00000726	(g/s)	5
2RPS3008	VOLUME	on-site	669458.5	4275254.6	0	0.00000726	(g/s)	5
2RPS3009	VOLUME	on-site	669522.1	4275254.6	0	0.00000726	(g/s)	5
2RPS300A	VOLUME	on-site	669585.7	4275254.6	0	0.00000726	(g/s)	5
2RPS300B	VOLUME	on-site	669649.4	4275254.6	0	0.00000726	(g/s)	5
2RPS300C	VOLUME	on-site	669713.0	4275254.6	0	0.00000726	(g/s)	5
2RPS300D	VOLUME	on-site	669776.6	4275254.6	0	0.00000726	(g/s)	5
2RPS300E	VOLUME	on-site	669840.2	4275254.6	0	0.00000726	(g/s)	5
2RPS300F	VOLUME	on-site	669903.8	4275254.6	0	0.00000726	(g/s)	5
2RPS300G	VOLUME	on-site	669967.4	4275254.6	0	0.00000726	(g/s)	5
2RPS300H	VOLUME	on-site	670031.0	4275254.6	0	0.00000726	(g/s)	5
2RPS300I	VOLUME	on-site	670094.7	4275254.6	0	0.00000726	(g/s)	5
2RPS300J	VOLUME	on-site	670158.3	4275254.6	0	0.00000726	(g/s)	5
2RPS300K	VOLUME	on-site	670221.9	4275254.6	0	0.00000726	(g/s)	5
2RPS300L	VOLUME	on-site	670285.5	4275254.6	0	0.00000726	(g/s)	5
2RPS300M	VOLUME	on-site	670349.1	4275254.6	0	0.00000726	(g/s)	5
2RPS300N	VOLUME	on-site	670412.7	4275254.6	0	0.00000726	(g/s)	5
2RPS300O	VOLUME	on-site	670476.3	4275254.6	0	0.00000726	(g/s)	5
2RPS300P	VOLUME	on-site	670540.0	4275254.6	0	0.00000726	(g/s)	5
2RPS300Q	VOLUME	on-site	669013.2	4275318.2	0	0.00000726	(g/s)	5
2RPS300R	VOLUME	on-site	669076.8	4275318.2	0	0.00000726	(g/s)	5
2RPS300S	VOLUME	on-site	669140.4	4275318.2	0	0.00000726	(g/s)	5
2RPS300T	VOLUME	on-site	669204.0	4275318.2	0	0.00000726	(g/s)	5
2RPS300U	VOLUME	on-site	669267.7	4275318.2	0	0.00000726	(g/s)	5
2RPS300V	VOLUME	on-site	669331.3	4275318.2	0	0.00000726	(g/s)	5
2RPS300W	VOLUME	on-site	669394.9	4275318.2	0	0.00000726	(g/s)	5
2RPS300X	VOLUME	on-site	669458.5	4275318.2	0	0.00000726	(g/s)	5
2RPS300Y	VOLUME	on-site	669522.1	4275318.2	0	0.00000726	(g/s)	5

2RPS300Z	VOLUME	on-site	669585.7	4275318.2	0	0.00000726	(g/s)	5
2RPS3010	VOLUME	on-site	669649.4	4275318.2	0	0.00000726	(g/s)	5
2RPS3011	VOLUME	on-site	669713.0	4275318.2	0	0.00000726	(g/s)	5
2RPS3012	VOLUME	on-site	669776.6	4275318.2	0	0.00000726	(g/s)	5
2RPS3013	VOLUME	on-site	669840.2	4275318.2	0	0.00000726	(g/s)	5
2RPS3014	VOLUME	on-site	669903.8	4275318.2	0	0.00000726	(g/s)	5
2RPS3015	VOLUME	on-site	669967.4	4275318.2	0	0.00000726	(g/s)	5
2RPS3016	VOLUME	on-site	670031.0	4275318.2	0	0.00000726	(g/s)	5
2RPS3017	VOLUME	on-site	670094.7	4275318.2	0	0.00000726	(g/s)	5
2RPS3018	VOLUME	on-site	670158.3	4275318.2	0	0.00000726	(g/s)	5
2RPS3019	VOLUME	on-site	670221.9	4275318.2	0	0.00000726	(g/s)	5
2RPS301A	VOLUME	on-site	670285.5	4275318.2	0	0.00000726	(g/s)	5
2RPS301B	VOLUME	on-site	670349.1	4275318.2	0	0.00000726	(g/s)	5
2RPS301C	VOLUME	on-site	670412.7	4275318.2	0	0.00000726	(g/s)	5
2RPS301D	VOLUME	on-site	669013.2	4275381.8	0	0.00000726	(g/s)	5
2RPS301E	VOLUME	on-site	669076.8	4275381.8	0	0.00000726	(g/s)	5
2RPS301F	VOLUME	on-site	669140.4	4275381.8	0	0.00000726	(g/s)	5
2RPS301G	VOLUME	on-site	669204.0	4275381.8	0	0.00000726	(g/s)	5
2RPS301H	VOLUME	on-site	669267.7	4275381.8	0	0.00000726	(g/s)	5
2RPS301I	VOLUME	on-site	669331.3	4275381.8	0	0.00000726	(g/s)	5
2RPS301J	VOLUME	on-site	669394.9	4275381.8	0	0.00000726	(g/s)	5
2RPS301K	VOLUME	on-site	669458.5	4275381.8	0	0.00000726	(g/s)	5
2RPS301L	VOLUME	on-site	669522.1	4275381.8	0	0.00000726	(g/s)	5
2RPS301M	VOLUME	on-site	669585.7	4275381.8	0	0.00000726	(g/s)	5
2RPS301N	VOLUME	on-site	669649.4	4275381.8	0	0.00000726	(g/s)	5
2RPS301O	VOLUME	on-site	669713.0	4275381.8	0	0.00000726	(g/s)	5
2RPS301P	VOLUME	on-site	669776.6	4275381.8	0	0.00000726	(g/s)	5
2RPS301Q	VOLUME	on-site	669840.2	4275381.8	0	0.00000726	(g/s)	5
2RPS301R	VOLUME	on-site	669903.8	4275381.8	0	0.00000726	(g/s)	5
2RPS301S	VOLUME	on-site	669967.4	4275381.8	0	0.00000726	(g/s)	5
2RPS301T	VOLUME	on-site	670031.0	4275381.8	0	0.00000726	(g/s)	5
2RPS301U	VOLUME	on-site	670094.7	4275381.8	0	0.00000726	(g/s)	5
2RPS301V	VOLUME	on-site	670158.3	4275381.8	0	0.00000726	(g/s)	5
2RPS301W	VOLUME	on-site	670221.9	4275381.8	0	0.00000726	(g/s)	5
2RPS301X	VOLUME	on-site	670285.5	4275381.8	0	0.00000726	(g/s)	5
2RPS301Y	VOLUME	on-site	670349.1	4275381.8	0	0.00000726	(g/s)	5
2RPS301Z	VOLUME	on-site	670412.7	4275381.8	0	0.00000726	(g/s)	5
2RPS3020	VOLUME	on-site	669013.2	4275445.5	0	0.00000726	(g/s)	5
2RPS3021	VOLUME	on-site	669076.8	4275445.5	0	0.00000726	(g/s)	5
2RPS3022	VOLUME	on-site	669140.4	4275445.5	0	0.00000726	(g/s)	5
2RPS3023	VOLUME	on-site	669204.0	4275445.5	0	0.00000726	(g/s)	5
2RPS3024	VOLUME	on-site	669267.7	4275445.5	0	0.00000726	(g/s)	5
2RPS3025	VOLUME	on-site	669331.3	4275445.5	0	0.00000726	(g/s)	5
2RPS3026	VOLUME	on-site	669394.9	4275445.5	0	0.00000726	(g/s)	5
2RPS3027	VOLUME	on-site	669458.5	4275445.5	0	0.00000726	(g/s)	5
2RPS3028	VOLUME	on-site	669522.1	4275445.5	0	0.00000726	(g/s)	5

2RPS3029	VOLUME	on-site	669585.7	4275445.5	0	0.00000726	(g/s)	5
2RPS302A	VOLUME	on-site	669649.4	4275445.5	0	0.00000726	(g/s)	5
2RPS302B	VOLUME	on-site	669713.0	4275445.5	0	0.00000726	(g/s)	5
2RPS302C	VOLUME	on-site	669776.6	4275445.5	0	0.00000726	(g/s)	5
2RPS302D	VOLUME	on-site	669840.2	4275445.5	0	0.00000726	(g/s)	5
2RPS302E	VOLUME	on-site	669903.8	4275445.5	0	0.00000726	(g/s)	5
2RPS302F	VOLUME	on-site	669967.4	4275445.5	0	0.00000726	(g/s)	5
2RPS302G	VOLUME	on-site	670031.0	4275445.5	0	0.00000726	(g/s)	5
2RPS302H	VOLUME	on-site	670094.7	4275445.5	0	0.00000726	(g/s)	5
2RPS302I	VOLUME	on-site	670158.3	4275445.5	0	0.00000726	(g/s)	5
2RPS302J	VOLUME	on-site	670221.9	4275445.5	0	0.00000726	(g/s)	5
2RPS302K	VOLUME	on-site	670285.5	4275445.5	0	0.00000726	(g/s)	5
2RPS302L	VOLUME	on-site	670349.1	4275445.5	0	0.00000726	(g/s)	5
2RPS302M	VOLUME	on-site	669013.2	4275509.1	0	0.00000726	(g/s)	5
2RPS302N	VOLUME	on-site	669076.8	4275509.1	0	0.00000726	(g/s)	5
2RPS302O	VOLUME	on-site	669140.4	4275509.1	0	0.00000726	(g/s)	5
2RPS302P	VOLUME	on-site	669204.0	4275509.1	0	0.00000726	(g/s)	5
2RPS302Q	VOLUME	on-site	669267.7	4275509.1	0	0.00000726	(g/s)	5
2RPS302R	VOLUME	on-site	669331.3	4275509.1	0	0.00000726	(g/s)	5
2RPS302S	VOLUME	on-site	669394.9	4275509.1	0	0.00000726	(g/s)	5
2RPS302T	VOLUME	on-site	669458.5	4275509.1	0	0.00000726	(g/s)	5
2RPS302U	VOLUME	on-site	669522.1	4275509.1	0	0.00000726	(g/s)	5
2RPS302V	VOLUME	on-site	669585.7	4275509.1	0	0.00000726	(g/s)	5
2RPS302W	VOLUME	on-site	669649.4	4275509.1	0	0.00000726	(g/s)	5
2RPS302X	VOLUME	on-site	669713.0	4275509.1	0	0.00000726	(g/s)	5
2RPS302Y	VOLUME	on-site	669776.6	4275509.1	0	0.00000726	(g/s)	5
2RPS302Z	VOLUME	on-site	669840.2	4275509.1	0	0.00000726	(g/s)	5
2RPS3030	VOLUME	on-site	669903.8	4275509.1	0	0.00000726	(g/s)	5
2RPS3031	VOLUME	on-site	669967.4	4275509.1	0	0.00000726	(g/s)	5
2RPS3032	VOLUME	on-site	670031.0	4275509.1	0	0.00000726	(g/s)	5
2RPS3033	VOLUME	on-site	670094.7	4275509.1	0	0.00000726	(g/s)	5
2RPS3034	VOLUME	on-site	670158.3	4275509.1	0	0.00000726	(g/s)	5
2RPS3035	VOLUME	on-site	670221.9	4275509.1	0	0.00000726	(g/s)	5
2RPS3036	VOLUME	on-site	670285.5	4275509.1	0	0.00000726	(g/s)	5
2RPS3037	VOLUME	on-site	669013.2	4275572.7	0	0.00000726	(g/s)	5
2RPS3038	VOLUME	on-site	669076.8	4275572.7	0	0.00000726	(g/s)	5
2RPS3039	VOLUME	on-site	669140.4	4275572.7	0	0.00000726	(g/s)	5
2RPS303A	VOLUME	on-site	669204.0	4275572.7	0	0.00000726	(g/s)	5
2RPS303B	VOLUME	on-site	669267.7	4275572.7	0	0.00000726	(g/s)	5
2RPS303C	VOLUME	on-site	669331.3	4275572.7	0	0.00000726	(g/s)	5
2RPS303D	VOLUME	on-site	669394.9	4275572.7	0	0.00000726	(g/s)	5
2RPS303E	VOLUME	on-site	669458.5	4275572.7	0	0.00000726	(g/s)	5
2RPS303F	VOLUME	on-site	669522.1	4275572.7	0	0.00000726	(g/s)	5
2RPS303G	VOLUME	on-site	669585.7	4275572.7	0	0.00000726	(g/s)	5
2RPS303H	VOLUME	on-site	669649.4	4275572.7	0	0.00000726	(g/s)	5

2RPS303I	VOLUME	on-site	669713.0	4275572.7	0	0.00000726	(g/s)	5
2RPS303J	VOLUME	on-site	669776.6	4275572.7	0	0.00000726	(g/s)	5
2RPS303K	VOLUME	on-site	669840.2	4275572.7	0	0.00000726	(g/s)	5
2RPS303L	VOLUME	on-site	669903.8	4275572.7	0	0.00000726	(g/s)	5
2RPS303M	VOLUME	on-site	669967.4	4275572.7	0	0.00000726	(g/s)	5
2RPS303N	VOLUME	on-site	670031.0	4275572.7	0	0.00000726	(g/s)	5
2RPS303O	VOLUME	on-site	670094.7	4275572.7	0	0.00000726	(g/s)	5
2RPS303P	VOLUME	on-site	670158.3	4275572.7	0	0.00000726	(g/s)	5
2RPS303Q	VOLUME	on-site	670221.9	4275572.7	0	0.00000726	(g/s)	5
2RPS303R	VOLUME	on-site	669331.3	4275636.3	0	0.00000726	(g/s)	5
2RPS303S	VOLUME	on-site	669394.9	4275636.3	0	0.00000726	(g/s)	5
2RPS303T	VOLUME	on-site	669458.5	4275636.3	0	0.00000726	(g/s)	5
2RPS303U	VOLUME	on-site	669522.1	4275636.3	0	0.00000726	(g/s)	5
2RPS303V	VOLUME	on-site	669585.7	4275636.3	0	0.00000726	(g/s)	5
2RPS303W	VOLUME	on-site	669649.4	4275636.3	0	0.00000726	(g/s)	5
2RPS303X	VOLUME	on-site	669713.0	4275636.3	0	0.00000726	(g/s)	5
2RPS303Y	VOLUME	on-site	669776.6	4275636.3	0	0.00000726	(g/s)	5
2RPS303Z	VOLUME	on-site	669840.2	4275636.3	0	0.00000726	(g/s)	5
2RPS3040	VOLUME	on-site	669903.8	4275636.3	0	0.00000726	(g/s)	5
2RPS3041	VOLUME	on-site	669967.4	4275636.3	0	0.00000726	(g/s)	5
2RPS3042	VOLUME	on-site	670031.0	4275636.3	0	0.00000726	(g/s)	5
2RPS3043	VOLUME	on-site	670094.7	4275636.3	0	0.00000726	(g/s)	5
2RPS3044	VOLUME	on-site	670158.3	4275636.3	0	0.00000726	(g/s)	5
2RPS3045	VOLUME	on-site	669394.9	4275699.9	0	0.00000726	(g/s)	5
2RPS3046	VOLUME	on-site	669458.5	4275699.9	0	0.00000726	(g/s)	5
2RPS3047	VOLUME	on-site	669522.1	4275699.9	0	0.00000726	(g/s)	5
2RPS3048	VOLUME	on-site	669585.7	4275699.9	0	0.00000726	(g/s)	5
2RPS3049	VOLUME	on-site	669649.4	4275699.9	0	0.00000726	(g/s)	5
2RPS304A	VOLUME	on-site	669713.0	4275699.9	0	0.00000726	(g/s)	5
2RPS304B	VOLUME	on-site	669776.6	4275699.9	0	0.00000726	(g/s)	5
2RPS304C	VOLUME	on-site	669840.2	4275699.9	0	0.00000726	(g/s)	5
2RPS304D	VOLUME	on-site	669903.8	4275699.9	0	0.00000726	(g/s)	5
2RPS304E	VOLUME	on-site	669967.4	4275699.9	0	0.00000726	(g/s)	5
2RPS304F	VOLUME	on-site	670031.0	4275699.9	0	0.00000726	(g/s)	5
2RPS304G	VOLUME	on-site	670094.7	4275699.9	0	0.00000726	(g/s)	5
2RPS304H	VOLUME	on-site	670158.3	4275699.9	0	0.00000726	(g/s)	5
2RPS304I	VOLUME	on-site	669458.5	4275763.5	0	0.00000726	(g/s)	5
2RPS304J	VOLUME	on-site	669522.1	4275763.5	0	0.00000726	(g/s)	5
2RPS304K	VOLUME	on-site	669585.7	4275763.5	0	0.00000726	(g/s)	5
2RPS304L	VOLUME	on-site	669649.4	4275763.5	0	0.00000726	(g/s)	5
2RPS304M	VOLUME	on-site	669713.0	4275763.5	0	0.00000726	(g/s)	5
2RPS304N	VOLUME	on-site	669776.6	4275763.5	0	0.00000726	(g/s)	5
2RPS304O	VOLUME	on-site	669840.2	4275763.5	0	0.00000726	(g/s)	5
2RPS304P	VOLUME	on-site	669903.8	4275763.5	0	0.00000726	(g/s)	5
2RPS304Q	VOLUME	on-site	669967.4	4275763.5	0	0.00000726	(g/s)	5
2RPS304R	VOLUME	on-site	670031.0	4275763.5	0	0.00000726	(g/s)	5

2RPS304S	VOLUME	on-site	670094.7	4275763.5	0	0.00000726	(g/s)	5
2RPS304T	VOLUME	on-site	669522.1	4275827.2	0	0.00000726	(g/s)	5
2RPS304U	VOLUME	on-site	669585.7	4275827.2	0	0.00000726	(g/s)	5
2RPS304V	VOLUME	on-site	669649.4	4275827.2	0	0.00000726	(g/s)	5
2RPS304W	VOLUME	on-site	669713.0	4275827.2	0	0.00000726	(g/s)	5
2RPS304X	VOLUME	on-site	669776.6	4275827.2	0	0.00000726	(g/s)	5
2RPS304Y	VOLUME	on-site	669840.2	4275827.2	0	0.00000726	(g/s)	5
2RPS304Z	VOLUME	on-site	669903.8	4275827.2	0	0.00000726	(g/s)	5
2RPS3050	VOLUME	on-site	669967.4	4275827.2	0	0.00000726	(g/s)	5
2RPS3051	VOLUME	on-site	670031.0	4275827.2	0	0.00000726	(g/s)	5
2RPS3052	VOLUME	on-site	669585.7	4275890.8	0	0.00000726	(g/s)	5
2RPS3053	VOLUME	on-site	669649.4	4275890.8	0	0.00000726	(g/s)	5
2RPS3054	VOLUME	on-site	669713.0	4275890.8	0	0.00000726	(g/s)	5
2RPS3055	VOLUME	on-site	669776.6	4275890.8	0	0.00000726	(g/s)	5
2RPS3056	VOLUME	on-site	669840.2	4275890.8	0	0.00000726	(g/s)	5
2RPS3057	VOLUME	on-site	669903.8	4275890.8	0	0.00000726	(g/s)	5
2RPS3058	VOLUME	on-site	669967.4	4275890.8	0	0.00000726	(g/s)	5
2RPS3059	VOLUME	on-site	669649.4	4275954.4	0	0.00000726	(g/s)	5
2RPS305A	VOLUME	on-site	669713.0	4275954.4	0	0.00000726	(g/s)	5
2RPS305B	VOLUME	on-site	669776.6	4275954.4	0	0.00000726	(g/s)	5
2RPS305C	VOLUME	on-site	669840.2	4275954.4	0	0.00000726	(g/s)	5
2RPS305D	VOLUME	on-site	669903.8	4275954.4	0	0.00000726	(g/s)	5
2RPS305E	VOLUME	on-site	669713.0	4276018.0	0	0.00000726	(g/s)	5
2RPS305F	VOLUME	on-site	669776.6	4276018.0	0	0.00000726	(g/s)	5
2RPS305G	VOLUME	on-site	669840.2	4276018.0	0	0.00000726	(g/s)	5
2RPS305H	VOLUME	on-site	669776.6	4276081.6	0	0.00000726	(g/s)	5
2RPS3070	VOLUME		668790.8	4278274.3	0	0.00001391	(g/s)	5
2RPS3071	VOLUME		668819.2	4278215.0	0	0.00001391	(g/s)	5
2RPS3072	VOLUME		668828.8	4278151.5	0	0.00001391	(g/s)	5
2RPS3073	VOLUME		668880.2	4278117.6	0	0.00001391	(g/s)	5
2RPS3074	VOLUME		668949.2	4278045.3	0	0.00001391	(g/s)	5
2RPS3075	VOLUME		668991.4	4277955.0	0	0.00001391	(g/s)	5
2RPS3076	VOLUME		668991.7	4277858.7	0	0.00001391	(g/s)	5
2RPS3077	VOLUME		668993.0	4277757.7	0	0.00001391	(g/s)	5
2RPS3078	VOLUME		668997.1	4277657.8	0	0.00001391	(g/s)	5
2RPS3079	VOLUME		669001.0	4277557.9	0	0.00001391	(g/s)	5
2RPS307A	VOLUME		669004.8	4277458.0	0	0.00001391	(g/s)	5
2RPS307B	VOLUME		669010.1	4277358.1	0	0.00001391	(g/s)	5
2RPS307C	VOLUME		669020.4	4277258.8	0	0.00001391	(g/s)	5
2RPS307D	VOLUME		669051.0	4277164.8	0	0.00001391	(g/s)	5
2RPS307E	VOLUME		669100.9	4277078.1	0	0.00001391	(g/s)	5
2RPS307F	VOLUME		669156.9	4276995.3	0	0.00001391	(g/s)	5
2RPS307G	VOLUME		669212.9	4276912.4	0	0.00001391	(g/s)	5
2RPS307H	VOLUME		669270.8	4276831.0	0	0.00001391	(g/s)	5
2RPS307I	VOLUME		669330.0	4276750.4	0	0.00001391	(g/s)	5

2RPS307J	VOLUME		669386.5	4276667.9	0	0.00001391	(g/s)	5
2RPS307K	VOLUME		669441.8	4276584.5	0	0.00001391	(g/s)	5
2RPS307L	VOLUME		669495.7	4276500.3	0	0.00001391	(g/s)	5
2RPS307M	VOLUME		669550.1	4276416.4	0	0.00001391	(g/s)	5
2RPS307N	VOLUME		669607.0	4276334.2	0	0.00001391	(g/s)	5
2RPS307O	VOLUME		669663.7	4276251.8	0	0.00001391	(g/s)	5
2RPS307P	VOLUME		669725.6	4276173.5	0	0.00001391	(g/s)	5

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
2RPS3001	on-site	669013.2	4275254.6	0	0.00000726	5	29.59	1
2RPS3002	on-site	669076.8	4275254.6	0	0.00000726	5	29.59	1
2RPS3003	on-site	669140.4	4275254.6	0	0.00000726	5	29.59	1
2RPS3004	on-site	669204.0	4275254.6	0	0.00000726	5	29.59	1
2RPS3005	on-site	669267.7	4275254.6	0	0.00000726	5	29.59	1
2RPS3006	on-site	669331.3	4275254.6	0	0.00000726	5	29.59	1
2RPS3007	on-site	669394.9	4275254.6	0	0.00000726	5	29.59	1
2RPS3008	on-site	669458.5	4275254.6	0	0.00000726	5	29.59	1
2RPS3009	on-site	669522.1	4275254.6	0	0.00000726	5	29.59	1
2RPS300A	on-site	669585.7	4275254.6	0	0.00000726	5	29.59	1
2RPS300B	on-site	669649.4	4275254.6	0	0.00000726	5	29.59	1
2RPS300C	on-site	669713.0	4275254.6	0	0.00000726	5	29.59	1
2RPS300D	on-site	669776.6	4275254.6	0	0.00000726	5	29.59	1
2RPS300E	on-site	669840.2	4275254.6	0	0.00000726	5	29.59	1
2RPS300F	on-site	669903.8	4275254.6	0	0.00000726	5	29.59	1
2RPS300G	on-site	669967.4	4275254.6	0	0.00000726	5	29.59	1
2RPS300H	on-site	670031.0	4275254.6	0	0.00000726	5	29.59	1
2RPS300I	on-site	670094.7	4275254.6	0	0.00000726	5	29.59	1
2RPS300J	on-site	670158.3	4275254.6	0	0.00000726	5	29.59	1
2RPS300K	on-site	670221.9	4275254.6	0	0.00000726	5	29.59	1
2RPS300L	on-site	670285.5	4275254.6	0	0.00000726	5	29.59	1
2RPS300M	on-site	670349.1	4275254.6	0	0.00000726	5	29.59	1
2RPS300N	on-site	670412.7	4275254.6	0	0.00000726	5	29.59	1
2RPS300O	on-site	670476.3	4275254.6	0	0.00000726	5	29.59	1
2RPS300P	on-site	670540.0	4275254.6	0	0.00000726	5	29.59	1
2RPS300Q	on-site	669013.2	4275318.2	0	0.00000726	5	29.59	1
2RPS300R	on-site	669076.8	4275318.2	0	0.00000726	5	29.59	1
2RPS300S	on-site	669140.4	4275318.2	0	0.00000726	5	29.59	1
2RPS300T	on-site	669204.0	4275318.2	0	0.00000726	5	29.59	1
2RPS300U	on-site	669267.7	4275318.2	0	0.00000726	5	29.59	1
2RPS300V	on-site	669331.3	4275318.2	0	0.00000726	5	29.59	1
2RPS300W	on-site	669394.9	4275318.2	0	0.00000726	5	29.59	1
2RPS300X	on-site	669458.5	4275318.2	0	0.00000726	5	29.59	1

2RPS300Y	on-site	669522.1	4275318.2	0	0.00000726	5	29.59	1
2RPS300Z	on-site	669585.7	4275318.2	0	0.00000726	5	29.59	1
2RPS3010	on-site	669649.4	4275318.2	0	0.00000726	5	29.59	1
2RPS3011	on-site	669713.0	4275318.2	0	0.00000726	5	29.59	1
2RPS3012	on-site	669776.6	4275318.2	0	0.00000726	5	29.59	1
2RPS3013	on-site	669840.2	4275318.2	0	0.00000726	5	29.59	1
2RPS3014	on-site	669903.8	4275318.2	0	0.00000726	5	29.59	1
2RPS3015	on-site	669967.4	4275318.2	0	0.00000726	5	29.59	1
2RPS3016	on-site	670031.0	4275318.2	0	0.00000726	5	29.59	1
2RPS3017	on-site	670094.7	4275318.2	0	0.00000726	5	29.59	1
2RPS3018	on-site	670158.3	4275318.2	0	0.00000726	5	29.59	1
2RPS3019	on-site	670221.9	4275318.2	0	0.00000726	5	29.59	1
2RPS301A	on-site	670285.5	4275318.2	0	0.00000726	5	29.59	1
2RPS301B	on-site	670349.1	4275318.2	0	0.00000726	5	29.59	1
2RPS301C	on-site	670412.7	4275318.2	0	0.00000726	5	29.59	1
2RPS301D	on-site	669013.2	4275381.8	0	0.00000726	5	29.59	1
2RPS301E	on-site	669076.8	4275381.8	0	0.00000726	5	29.59	1
2RPS301F	on-site	669140.4	4275381.8	0	0.00000726	5	29.59	1
2RPS301G	on-site	669204.0	4275381.8	0	0.00000726	5	29.59	1
2RPS301H	on-site	669267.7	4275381.8	0	0.00000726	5	29.59	1
2RPS301I	on-site	669331.3	4275381.8	0	0.00000726	5	29.59	1
2RPS301J	on-site	669394.9	4275381.8	0	0.00000726	5	29.59	1
2RPS301K	on-site	669458.5	4275381.8	0	0.00000726	5	29.59	1
2RPS301L	on-site	669522.1	4275381.8	0	0.00000726	5	29.59	1
2RPS301M	on-site	669585.7	4275381.8	0	0.00000726	5	29.59	1
2RPS301N	on-site	669649.4	4275381.8	0	0.00000726	5	29.59	1
2RPS301O	on-site	669713.0	4275381.8	0	0.00000726	5	29.59	1
2RPS301P	on-site	669776.6	4275381.8	0	0.00000726	5	29.59	1
2RPS301Q	on-site	669840.2	4275381.8	0	0.00000726	5	29.59	1
2RPS301R	on-site	669903.8	4275381.8	0	0.00000726	5	29.59	1
2RPS301S	on-site	669967.4	4275381.8	0	0.00000726	5	29.59	1
2RPS301T	on-site	670031.0	4275381.8	0	0.00000726	5	29.59	1
2RPS301U	on-site	670094.7	4275381.8	0	0.00000726	5	29.59	1
2RPS301V	on-site	670158.3	4275381.8	0	0.00000726	5	29.59	1
2RPS301W	on-site	670221.9	4275381.8	0	0.00000726	5	29.59	1
2RPS301X	on-site	670285.5	4275381.8	0	0.00000726	5	29.59	1
2RPS301Y	on-site	670349.1	4275381.8	0	0.00000726	5	29.59	1
2RPS301Z	on-site	670412.7	4275381.8	0	0.00000726	5	29.59	1
2RPS3020	on-site	669013.2	4275445.5	0	0.00000726	5	29.59	1
2RPS3021	on-site	669076.8	4275445.5	0	0.00000726	5	29.59	1
2RPS3022	on-site	669140.4	4275445.5	0	0.00000726	5	29.59	1
2RPS3023	on-site	669204.0	4275445.5	0	0.00000726	5	29.59	1
2RPS3024	on-site	669267.7	4275445.5	0	0.00000726	5	29.59	1
2RPS3025	on-site	669331.3	4275445.5	0	0.00000726	5	29.59	1
2RPS3026	on-site	669394.9	4275445.5	0	0.00000726	5	29.59	1
2RPS3027	on-site	669458.5	4275445.5	0	0.00000726	5	29.59	1

2RPS3028	on-site	669522.1	4275445.5	0	0.00000726	5	29.59	1
2RPS3029	on-site	669585.7	4275445.5	0	0.00000726	5	29.59	1
2RPS302A	on-site	669649.4	4275445.5	0	0.00000726	5	29.59	1
2RPS302B	on-site	669713.0	4275445.5	0	0.00000726	5	29.59	1
2RPS302C	on-site	669776.6	4275445.5	0	0.00000726	5	29.59	1
2RPS302D	on-site	669840.2	4275445.5	0	0.00000726	5	29.59	1
2RPS302E	on-site	669903.8	4275445.5	0	0.00000726	5	29.59	1
2RPS302F	on-site	669967.4	4275445.5	0	0.00000726	5	29.59	1
2RPS302G	on-site	670031.0	4275445.5	0	0.00000726	5	29.59	1
2RPS302H	on-site	670094.7	4275445.5	0	0.00000726	5	29.59	1
2RPS302I	on-site	670158.3	4275445.5	0	0.00000726	5	29.59	1
2RPS302J	on-site	670221.9	4275445.5	0	0.00000726	5	29.59	1
2RPS302K	on-site	670285.5	4275445.5	0	0.00000726	5	29.59	1
2RPS302L	on-site	670349.1	4275445.5	0	0.00000726	5	29.59	1
2RPS302M	on-site	669013.2	4275509.1	0	0.00000726	5	29.59	1
2RPS302N	on-site	669076.8	4275509.1	0	0.00000726	5	29.59	1
2RPS302O	on-site	669140.4	4275509.1	0	0.00000726	5	29.59	1
2RPS302P	on-site	669204.0	4275509.1	0	0.00000726	5	29.59	1
2RPS302Q	on-site	669267.7	4275509.1	0	0.00000726	5	29.59	1
2RPS302R	on-site	669331.3	4275509.1	0	0.00000726	5	29.59	1
2RPS302S	on-site	669394.9	4275509.1	0	0.00000726	5	29.59	1
2RPS302T	on-site	669458.5	4275509.1	0	0.00000726	5	29.59	1
2RPS302U	on-site	669522.1	4275509.1	0	0.00000726	5	29.59	1
2RPS302V	on-site	669585.7	4275509.1	0	0.00000726	5	29.59	1
2RPS302W	on-site	669649.4	4275509.1	0	0.00000726	5	29.59	1
2RPS302X	on-site	669713.0	4275509.1	0	0.00000726	5	29.59	1
2RPS302Y	on-site	669776.6	4275509.1	0	0.00000726	5	29.59	1
2RPS302Z	on-site	669840.2	4275509.1	0	0.00000726	5	29.59	1
2RPS3030	on-site	669903.8	4275509.1	0	0.00000726	5	29.59	1
2RPS3031	on-site	669967.4	4275509.1	0	0.00000726	5	29.59	1
2RPS3032	on-site	670031.0	4275509.1	0	0.00000726	5	29.59	1
2RPS3033	on-site	670094.7	4275509.1	0	0.00000726	5	29.59	1
2RPS3034	on-site	670158.3	4275509.1	0	0.00000726	5	29.59	1
2RPS3035	on-site	670221.9	4275509.1	0	0.00000726	5	29.59	1
2RPS3036	on-site	670285.5	4275509.1	0	0.00000726	5	29.59	1
2RPS3037	on-site	669013.2	4275572.7	0	0.00000726	5	29.59	1
2RPS3038	on-site	669076.8	4275572.7	0	0.00000726	5	29.59	1
2RPS3039	on-site	669140.4	4275572.7	0	0.00000726	5	29.59	1
2RPS303A	on-site	669204.0	4275572.7	0	0.00000726	5	29.59	1
2RPS303B	on-site	669267.7	4275572.7	0	0.00000726	5	29.59	1
2RPS303C	on-site	669331.3	4275572.7	0	0.00000726	5	29.59	1
2RPS303D	on-site	669394.9	4275572.7	0	0.00000726	5	29.59	1
2RPS303E	on-site	669458.5	4275572.7	0	0.00000726	5	29.59	1
2RPS303F	on-site	669522.1	4275572.7	0	0.00000726	5	29.59	1
2RPS303G	on-site	669585.7	4275572.7	0	0.00000726	5	29.59	1

2RPS303H	on-site	669649.4	4275572.7	0	0.00000726	5	29.59	1
2RPS303I	on-site	669713.0	4275572.7	0	0.00000726	5	29.59	1
2RPS303J	on-site	669776.6	4275572.7	0	0.00000726	5	29.59	1
2RPS303K	on-site	669840.2	4275572.7	0	0.00000726	5	29.59	1
2RPS303L	on-site	669903.8	4275572.7	0	0.00000726	5	29.59	1
2RPS303M	on-site	669967.4	4275572.7	0	0.00000726	5	29.59	1
2RPS303N	on-site	670031.0	4275572.7	0	0.00000726	5	29.59	1
2RPS303O	on-site	670094.7	4275572.7	0	0.00000726	5	29.59	1
2RPS303P	on-site	670158.3	4275572.7	0	0.00000726	5	29.59	1
2RPS303Q	on-site	670221.9	4275572.7	0	0.00000726	5	29.59	1
2RPS303R	on-site	669331.3	4275636.3	0	0.00000726	5	29.59	1
2RPS303S	on-site	669394.9	4275636.3	0	0.00000726	5	29.59	1
2RPS303T	on-site	669458.5	4275636.3	0	0.00000726	5	29.59	1
2RPS303U	on-site	669522.1	4275636.3	0	0.00000726	5	29.59	1
2RPS303V	on-site	669585.7	4275636.3	0	0.00000726	5	29.59	1
2RPS303W	on-site	669649.4	4275636.3	0	0.00000726	5	29.59	1
2RPS303X	on-site	669713.0	4275636.3	0	0.00000726	5	29.59	1
2RPS303Y	on-site	669776.6	4275636.3	0	0.00000726	5	29.59	1
2RPS303Z	on-site	669840.2	4275636.3	0	0.00000726	5	29.59	1
2RPS3040	on-site	669903.8	4275636.3	0	0.00000726	5	29.59	1
2RPS3041	on-site	669967.4	4275636.3	0	0.00000726	5	29.59	1
2RPS3042	on-site	670031.0	4275636.3	0	0.00000726	5	29.59	1
2RPS3043	on-site	670094.7	4275636.3	0	0.00000726	5	29.59	1
2RPS3044	on-site	670158.3	4275636.3	0	0.00000726	5	29.59	1
2RPS3045	on-site	669394.9	4275699.9	0	0.00000726	5	29.59	1
2RPS3046	on-site	669458.5	4275699.9	0	0.00000726	5	29.59	1
2RPS3047	on-site	669522.1	4275699.9	0	0.00000726	5	29.59	1
2RPS3048	on-site	669585.7	4275699.9	0	0.00000726	5	29.59	1
2RPS3049	on-site	669649.4	4275699.9	0	0.00000726	5	29.59	1
2RPS304A	on-site	669713.0	4275699.9	0	0.00000726	5	29.59	1
2RPS304B	on-site	669776.6	4275699.9	0	0.00000726	5	29.59	1
2RPS304C	on-site	669840.2	4275699.9	0	0.00000726	5	29.59	1
2RPS304D	on-site	669903.8	4275699.9	0	0.00000726	5	29.59	1
2RPS304E	on-site	669967.4	4275699.9	0	0.00000726	5	29.59	1
2RPS304F	on-site	670031.0	4275699.9	0	0.00000726	5	29.59	1
2RPS304G	on-site	670094.7	4275699.9	0	0.00000726	5	29.59	1
2RPS304H	on-site	670158.3	4275699.9	0	0.00000726	5	29.59	1
2RPS304I	on-site	669458.5	4275763.5	0	0.00000726	5	29.59	1
2RPS304J	on-site	669522.1	4275763.5	0	0.00000726	5	29.59	1
2RPS304K	on-site	669585.7	4275763.5	0	0.00000726	5	29.59	1
2RPS304L	on-site	669649.4	4275763.5	0	0.00000726	5	29.59	1
2RPS304M	on-site	669713.0	4275763.5	0	0.00000726	5	29.59	1
2RPS304N	on-site	669776.6	4275763.5	0	0.00000726	5	29.59	1
2RPS304O	on-site	669840.2	4275763.5	0	0.00000726	5	29.59	1
2RPS304P	on-site	669903.8	4275763.5	0	0.00000726	5	29.59	1
2RPS304Q	on-site	669967.4	4275763.5	0	0.00000726	5	29.59	1

2RPS304R	on-site	670031.0	4275763.5	0	0.00000726	5	29.59	1
2RPS304S	on-site	670094.7	4275763.5	0	0.00000726	5	29.59	1
2RPS304T	on-site	669522.1	4275827.2	0	0.00000726	5	29.59	1
2RPS304U	on-site	669585.7	4275827.2	0	0.00000726	5	29.59	1
2RPS304V	on-site	669649.4	4275827.2	0	0.00000726	5	29.59	1
2RPS304W	on-site	669713.0	4275827.2	0	0.00000726	5	29.59	1
2RPS304X	on-site	669776.6	4275827.2	0	0.00000726	5	29.59	1
2RPS304Y	on-site	669840.2	4275827.2	0	0.00000726	5	29.59	1
2RPS304Z	on-site	669903.8	4275827.2	0	0.00000726	5	29.59	1
2RPS3050	on-site	669967.4	4275827.2	0	0.00000726	5	29.59	1
2RPS3051	on-site	670031.0	4275827.2	0	0.00000726	5	29.59	1
2RPS3052	on-site	669585.7	4275890.8	0	0.00000726	5	29.59	1
2RPS3053	on-site	669649.4	4275890.8	0	0.00000726	5	29.59	1
2RPS3054	on-site	669713.0	4275890.8	0	0.00000726	5	29.59	1
2RPS3055	on-site	669776.6	4275890.8	0	0.00000726	5	29.59	1
2RPS3056	on-site	669840.2	4275890.8	0	0.00000726	5	29.59	1
2RPS3057	on-site	669903.8	4275890.8	0	0.00000726	5	29.59	1
2RPS3058	on-site	669967.4	4275890.8	0	0.00000726	5	29.59	1
2RPS3059	on-site	669649.4	4275954.4	0	0.00000726	5	29.59	1
2RPS305A	on-site	669713.0	4275954.4	0	0.00000726	5	29.59	1
2RPS305B	on-site	669776.6	4275954.4	0	0.00000726	5	29.59	1
2RPS305C	on-site	669840.2	4275954.4	0	0.00000726	5	29.59	1
2RPS305D	on-site	669903.8	4275954.4	0	0.00000726	5	29.59	1
2RPS305E	on-site	669713.0	4276018.0	0	0.00000726	5	29.59	1
2RPS305F	on-site	669776.6	4276018.0	0	0.00000726	5	29.59	1
2RPS305G	on-site	669840.2	4276018.0	0	0.00000726	5	29.59	1
2RPS305H	on-site	669776.6	4276081.6	0	0.00000726	5	29.59	1
2RPS3070		668790.8	4278274.3	0	0.00001391	5	29.59	1
2RPS3071		668819.2	4278215.0	0	0.00001391	5	29.59	1
2RPS3072		668828.8	4278151.5	0	0.00001391	5	29.59	1
2RPS3073		668880.2	4278117.6	0	0.00001391	5	29.59	1
2RPS3074		668949.2	4278045.3	0	0.00001391	5	29.59	1
2RPS3075		668991.4	4277955.0	0	0.00001391	5	29.59	1
2RPS3076		668991.7	4277858.7	0	0.00001391	5	29.59	1
2RPS3077		668993.0	4277757.7	0	0.00001391	5	29.59	1
2RPS3078		668997.1	4277657.8	0	0.00001391	5	29.59	1
2RPS3079		669001.0	4277557.9	0	0.00001391	5	29.59	1
2RPS307A		669004.8	4277458.0	0	0.00001391	5	29.59	1
2RPS307B		669010.1	4277358.1	0	0.00001391	5	29.59	1
2RPS307C		669020.4	4277258.8	0	0.00001391	5	29.59	1
2RPS307D		669051.0	4277164.8	0	0.00001391	5	29.59	1
2RPS307E		669100.9	4277078.1	0	0.00001391	5	29.59	1
2RPS307F		669156.9	4276995.3	0	0.00001391	5	29.59	1
2RPS307G		669212.9	4276912.4	0	0.00001391	5	29.59	1
2RPS307H		669270.8	4276831.0	0	0.00001391	5	29.59	1

2RPS307I		669330.0	4276750.4	0	0.00001391	5	29.59	1
2RPS307J		669386.5	4276667.9	0	0.00001391	5	29.59	1
2RPS307K		669441.8	4276584.5	0	0.00001391	5	29.59	1
2RPS307L		669495.7	4276500.3	0	0.00001391	5	29.59	1
2RPS307M		669550.1	4276416.4	0	0.00001391	5	29.59	1
2RPS307N		669607.0	4276334.2	0	0.00001391	5	29.59	1
2RPS307O		669663.7	4276251.8	0	0.00001391	5	29.59	1
2RPS307P		669725.6	4276173.5	0	0.00001391	5	29.59	1

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: OTHER (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
			East (m)	North (m)	(m)	(m)	(m)		
ALL	1ST	0.00499	669850.10	4276109.50	0.00	0.00	1.80	DC	
	2ND	0.00495	669890.10	4276074.50	0.00	0.00	1.80	DC	
	3RD	0.00494	669895.10	4276069.50	0.00	0.00	1.80	DC	
	4TH	0.00494	669885.10	4276079.50	0.00	0.00	1.80	DC	
	5TH	0.00494	669900.10	4276064.50	0.00	0.00	1.80	DC	
	6TH	0.00494	669905.10	4276059.50	0.00	0.00	1.80	DC	
	7TH	0.00494	669880.10	4276084.50	0.00	0.00	1.80	DC	
	8TH	0.00494	669910.10	4276054.50	0.00	0.00	1.80	DC	
	9TH	0.00493	669875.10	4276089.50	0.00	0.00	1.80	DC	
	10TH	0.00492	669870.10	4276094.50	0.00	0.00	1.80	DC	

Highest Results of Pollutant: OTHER

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)	(m)	(m)	(m)		
1-HR	ALL	1ST	Avg. Conc.	0.15135	ug/m**3	15012109	669965.10	4276009.50	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
4	Warning Message(s)
1576	Informational Message(s)
43680	Hours Were Processed
643	Calm Hours Identified
933	Missing Hours Identified (2.14 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description

WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

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*HARP - HRACalc v22118 11/14/2024 2:47:31 PM - Cancer Risk - Input File: C:\Users\jfahrney\Desktop\HARP Results\Creekside Village Reduced Impact Alt_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
1			9901	DieselExhPM	0.00499	1.93E-06	3.167YrCancerHighEnd_Inh_FAH16to70	*	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 11/14/2024 2:47:31 PM - Chronic Risk - Input File: C:\Users\jfahrney\Desktop\HARP Results\Creekside Village Reduced Impact Alt_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
1			9901	DieselExhPM	0.005	NonCancerChronicHighEnd_Inh	#######	#######	#######	#######	#######	0.00E+00	9.98E-04	#######	#######	0.00E+00	#######	#######	#######	0.00E+00	*	4.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 11/14/2024 2:47:31 PM - Acute Risk - Input File: C:\Users\jfahrney\Desktop\HARP Results\Creekside Village Reduced Impact Alt_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
1			9901	DieselExhPM	0.15135	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Energy Calculations

3. Construction Emissions Details

Linear, Grubbing & Land Clearing (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Annual																		
Off-Road Equipment	0.001622	0.001363	0.011861	0.012209	1.58E-05	0.000734		0.000734	0.000675		0.000675		1.556922	1.556922	6.32E-05	1.26E-05		1.562265
Dust From Material Movement							0.001856	0.001856		0.0002	0.0002							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Annual																		
Worker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3. Construction Emissions Details

Linear, Grading & Excavation (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Annual																		
Off-Road Equipment	0.00556	0.004672	0.035365	0.062138	8.9E-05	0.0016		0.0016	0.001472		0.001472		8.746742	8.746742	0.000355	7.1E-05		8.776758
Dust From Material Movement							0	0	0	0	0							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Annual																		
Worker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3. Construction Emissions Details

Linear, Drainage, Utilities, & Sub-Grade (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Annual																		
Off-Road Equipment	0.004943	0.004103	0.033236	0.041632	6.97E-05	0.001211		0.001211	0.001114		0.001114		5.504869	5.504869	0.000223	4.47E-05		5.523761
Dust From Material Movement							5.83E-07	5.83E-07		8.82E-08	8.82E-08							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Annual																		
Worker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	3.54E-06	2.71E-06	0.000229	2.26E-05	1.36E-06	1.36E-06	2.77E-05	2.9E-05	1.36E-06	7.58E-06	8.94E-06		0.120427	0.120427	6.90E-07	1.89E-05	8.58E-05	0.126153

3. Construction Emissions Details

Linear, Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Annual																		
Off-Road Equipment	0.002338	0.001965	0.017882	0.02484	3.45E-05	0.000831		0.000831	0.000764		0.000764		3.392785	3.392785	0.000138	2.75E-05		3.404428
Dust From Material Movement							2.04E-07	2.04E-07		3.09E-08	3.09E-08							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Annual																		
Worker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	1.18E-06	9.04E-07	7.62E-05	7.54E-06	4.52E-07	4.52E-07	9.23E-06	9.68E-06	4.52E-07	2.53E-06	2.98E-06		0.040142	0.040142	2.30E-07	6.29E-06	2.86E-05	0.042051

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: El Dorado
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption
El Dorado	2028	HHDT	Aggregate	Aggregate	Gasoline	0.320372027	17.764992	17.7649922	0	6.41000352	0.0045044
El Dorado	2028	HHDT	Aggregate	Aggregate	Diesel	600.0932676	47061.922	47061.9222	0	5674.302961	8.5522466
El Dorado	2028	LDA	Aggregate	Aggregate	Gasoline	45405.60275	1819388.3	1819388.26	0	211227.6026	56.074189
El Dorado	2028	LDA	Aggregate	Aggregate	Diesel	177.8705665	5152.8136	5152.81358	0	746.871728	0.1158724
El Dorado	2028	LDT1	Aggregate	Aggregate	Gasoline	7010.034777	205542.77	205542.773	0	29472.54131	7.9664382
El Dorado	2028	LDT1	Aggregate	Aggregate	Diesel	1.343144497	7.9632841	7.96328405	0	3.656403849	0.0003026
El Dorado	2028	LDT2	Aggregate	Aggregate	Gasoline	36379.90323	1347752.6	1347752.58	0	165754.3034	52.520294
El Dorado	2028	LDT2	Aggregate	Aggregate	Diesel	142.4706426	5490.6254	5490.6254	0	660.7568804	0.1597768
El Dorado	2028	LHDT1	Aggregate	Aggregate	Gasoline	3396.546438	111757.48	111757.479	0	50603.48107	11.451726
El Dorado	2028	LHDT1	Aggregate	Aggregate	Diesel	3591.182645	107947.57	107947.569	0	45172.55996	6.736367
El Dorado	2028	LHDT2	Aggregate	Aggregate	Gasoline	249.9970838	8776.2765	8776.2765	0	3724.584053	0.9789201
El Dorado	2028	LHDT2	Aggregate	Aggregate	Diesel	1367.870489	44427.585	44427.5853	0	17206.08997	3.3798579
El Dorado	2028	MCY	Aggregate	Aggregate	Gasoline	4772.56895	21991.344	21991.3437	0	9545.1379	0.558567
El Dorado	2028	MDV	Aggregate	Aggregate	Gasoline	22483.49203	747093.84	747093.837	0	100538.7582	35.438751
El Dorado	2028	MDV	Aggregate	Aggregate	Diesel	503.2336788	16716.829	16716.8291	0	2273.922229	0.6555079
El Dorado	2028	MH	Aggregate	Aggregate	Gasoline	632.3782347	4994.8356	4994.83563	0	63.2631186	1.131659
El Dorado	2028	MH	Aggregate	Aggregate	Diesel	413.1124379	3190.3639	3190.36389	0	41.31124379	0.3396365
El Dorado	2028	MHDT	Aggregate	Aggregate	Gasoline	168.3258964	7141.1708	7141.1708	0	3367.864536	1.4503141
El Dorado	2028	MHDT	Aggregate	Aggregate	Diesel	1851.708847	77690.629	77690.629	0	20534.67361	9.027737
El Dorado	2028	OBUS	Aggregate	Aggregate	Gasoline	35.74896276	1199.5608	1199.56085	0	715.265247	0.2415418
El Dorado	2028	OBUS	Aggregate	Aggregate	Diesel	77.31181144	4462.1567	4462.15672	0	830.7854788	0.5765251
El Dorado	2028	SBUS	Aggregate	Aggregate	Gasoline	16.73113011	700.72219	700.722191	0	66.92452042	0.0703354
El Dorado	2028	SBUS	Aggregate	Aggregate	Diesel	165.6034122	3658.0396	3658.03964	0	2397.937409	0.4363034
El Dorado	2028	UBUS	Aggregate	Aggregate	Gasoline	12.58695387	1054.0903	1054.09033	0	50.34781548	0.2242865
El Dorado	2028	UBUS	Aggregate	Aggregate	Diesel	34.46522931	3484.2543	3484.2543	0	137.8609172	0.3799405

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: El Dorado
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption
El Dorado	2028	HHDT	Aggregate	Aggregate	Gasoline	0.320372027	17.7649922	0.004504
El Dorado	2028	HHDT	Aggregate	Aggregate	Diesel	600.0932676	47061.9222	8.552247
El Dorado	2028	LDA	Aggregate	Aggregate	Gasoline	45405.60275	1819388.26	56.07419
El Dorado	2028	LDA	Aggregate	Aggregate	Diesel	177.8705665	5152.81358	0.115872
El Dorado	2028	LDT1	Aggregate	Aggregate	Gasoline	7010.034777	205542.773	7.966438
El Dorado	2028	LDT1	Aggregate	Aggregate	Diesel	1.343144497	7.96328405	0.000303
El Dorado	2028	LDT2	Aggregate	Aggregate	Gasoline	36379.90323	1347752.58	52.52029
El Dorado	2028	LDT2	Aggregate	Aggregate	Diesel	142.4706426	5490.6254	0.159777
El Dorado	2028	LHDT1	Aggregate	Aggregate	Gasoline	3396.546438	111757.479	11.45173
El Dorado	2028	LHDT1	Aggregate	Aggregate	Diesel	3591.182645	107947.569	6.736367
El Dorado	2028	LHDT2	Aggregate	Aggregate	Gasoline	249.9970838	8776.2765	0.97892
El Dorado	2028	LHDT2	Aggregate	Aggregate	Diesel	1367.870489	44427.5853	3.379858
El Dorado	2028	MCY	Aggregate	Aggregate	Gasoline	4772.56895	21991.3437	0.558567
El Dorado	2028	MDV	Aggregate	Aggregate	Gasoline	22483.49203	747093.837	35.43875
El Dorado	2028	MDV	Aggregate	Aggregate	Diesel	503.2336788	16716.8291	0.655508
El Dorado	2028	MH	Aggregate	Aggregate	Gasoline	632.3782347	4994.83563	1.131659
El Dorado	2028	MH	Aggregate	Aggregate	Diesel	413.1124379	3190.36389	0.339636
El Dorado	2028	MHDT	Aggregate	Aggregate	Gasoline	168.3258964	7141.1708	1.450314
El Dorado	2028	MHDT	Aggregate	Aggregate	Diesel	1851.708847	77690.629	9.027737
El Dorado	2028	OBUS	Aggregate	Aggregate	Gasoline	35.74896276	1199.56085	0.241542
El Dorado	2028	OBUS	Aggregate	Aggregate	Diesel	77.31181144	4462.15672	0.576525
El Dorado	2028	SBUS	Aggregate	Aggregate	Gasoline	16.73113011	700.722191	0.070335
El Dorado	2028	SBUS	Aggregate	Aggregate	Diesel	165.6034122	3658.03964	0.436303
El Dorado	2028	UBUS	Aggregate	Aggregate	Gasoline	12.58695387	1054.09033	0.224286
El Dorado	2028	UBUS	Aggregate	Aggregate	Diesel	34.46522931	3484.2543	0.37994

198.47	Total
198,472	Gallons per Day
72,442,134	**Gallons per year**

Operational Electricity Consumption from Water Use - Unmitigated

Phase 1 2027

5.12. Operational Water and Wastewater Consumption

5.12.1 Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	29362184.1	141034904.6
Fast Food Restaurant with Drive Thru	728480.9098	2283777.925
Fast Food Restaurant w/o Drive Thru	455300.5686	1409139.589
High Turnover (Sit Down Restaurant)	455300.5686	1409139.589
Parking Lot	0	3644326.364
City Park	0	14128145.72
Total	**31,001,266**	**163,909,434**

Electricity Intensity Factors - Water/Wastewater

Process	**Units**	
Supply	kwh/MG	698
Treat	kwh/MG	748
Distribute	kwh/MG	166
Wastewater Treatment	kwh/MG	1519
Total	**kwh/MG**	**3,131**

* Electricity intensity factors from CalEEMod Appendix G for Sacramento.

Electricity Demand - Water/Wastewater

	Units	**Potable Water - Indoor**	**Potable Water - Outdoor**	**Total**
Electricity Intensity Factor				
Supply	kwh/MG	698	698	N/A
Treat	kwh/MG	748	748	N/A
Distribute	kwh/MG	166	166	N/A
Wastewater Treatment	kwh/MG	1,519	-	N/A
Total	**kwh/MG**	**3,131**	**1,612**	N/A

Project

Water Consumption	**MG/yr**	31	164	**195**
Electricity Usage	**kwh/yr**	97,065	264,222	**361,287**